

Frac Tanks for Dust Control
259852, 266323, 260714, 255850, 251186, SV27472LM, SV23192L, SV27454LM
June 20 2025

Specific Method	CAS#	Analyte	Results Basis	MD LRP Cleanup Stds_Tbl 1_GWs Aquifers_Oct2018	USEPA Aquatic_FreshWater_Ac ute_2024	USEPA RSLs THQ 0.1_MCLs_Nov2024	410-222423-2 QM-259852			410-225566-2 QM-R-266323-060425		
							Result	Units	Qualifier	Result	Units	Qualifier
8260D_LL	71-55-6	1,1,1-Trichloroethane	Total	200		200	<0.080	ug/L		<0.080	ug/L	
8260D_LL	79-34-5	1,1,2,2-Tetrachloroethane	Total	0.076			<0.10	ug/L		<0.10	ug/L	
8260D_LL	79-00-5	1,1,2-Trichloroethane	Total	5		5	<0.080	ug/L		<0.080	ug/L	
8260D_LL	76-13-1	1,1,2-Trichlorotrifluoroethane	Total				<0.080	ug/L		<0.080	ug/L	
8260D_LL	75-34-3	1,1-Dichloroethane	Total	2.8			<0.10	ug/L		<0.10	ug/L	
8260D_LL	75-35-4	1,1-Dichloroethene	Total	7		7	<0.10	ug/L		<0.10	ug/L	
8260D_LL	120-82-1	1,2,4-Trichlorobenzene	Total	70		70	<0.070	ug/L		<0.070	ug/L	
8260D_LL	96-12-8	1,2-Dibromo-3-Chloropropane	Total	0.2		0.2	<0.10	ug/L		<0.10	ug/L	
8260D_LL	95-50-1	1,2-Dichlorobenzene	Total	600		600	<0.070	ug/L		<0.070	ug/L	
8260D_LL	107-06-2	1,2-Dichloroethane	Total	5		5	<0.070	ug/L		<0.070	ug/L	
8260D_LL	78-87-5	1,2-Dichloropropane	Total	5		5	<0.10	ug/L		<0.10	ug/L	
8260D_LL	541-73-1	1,3-Dichlorobenzene	Total				<0.070	ug/L		<0.070	ug/L	
8260D_LL	106-46-7	1,4-Dichlorobenzene	Total	75		75	<0.070	ug/L		<0.070	ug/L	
8260D_LL	78-93-3	2-Butanone	Total	560			<1.0	ug/L		<1.0	ug/L	
8260D_LL	591-78-6	2-Hexanone	Total				<2.0	ug/L		<2.0	ug/L	
8260D_LL	108-10-1	4-Methyl-2-pentanone	Total	630			<1.0	ug/L		<1.0	ug/L	
8270D_SIM	83-32-9	Acenaphthene	Total	53			<0.011	ug/L		<0.010	ug/L	
8270D_SIM	208-96-8	Acenaphthylene	Total				<0.011	ug/L		<0.010	ug/L	
8260D_LL	67-64-1	Acetone	Total	1400			<1.5	ug/L		2.1	ug/L	J
6020B	7429-90-5	Aluminum	Total Recoverable	2000	1100		19000	ug/L		68	ug/L	
8270D_SIM	120-12-7	Anthracene	Total	180			<0.011	ug/L		<0.010	ug/L	
6020B	7440-36-0	Antimony	Total Recoverable	6		6	0.36	ug/L	J	<0.20	ug/L	
6020B	7440-38-2	Arsenic	Total Recoverable	10	340	10	6.6	ug/L		<0.68	ug/L	
6020B	7440-39-3	Barium	Total Recoverable	2000		2000	120	ug/L		25	ug/L	
8260D_LL	71-43-2	Benzene	Total	5		5	<0.10	ug/L		<0.10	ug/L	
8270D_SIM	56-55-3	Benzo[a]anthracene	Total	0.03			<0.011	ug/L		<0.010	ug/L	
8270D_SIM	50-32-8	Benzo[a]pyrene	Total	0.2		0.2	0.020	ug/L	J	<0.010	ug/L	
8270D_SIM	205-99-2	Benzo[b]fluoranthene	Total	0.25			<0.050	ug/L		<0.048	ug/L	
8270D_SIM	191-24-2	Benzo[g,h,i]perylene	Total				<0.011	ug/L		<0.010	ug/L	
8270D_SIM	207-08-9	Benzo[k]fluoranthene	Total	2.5			0.019	ug/L	J	<0.010	ug/L	
6020B	7440-41-7	Beryllium	Total Recoverable	4		4	1.2	ug/L		<0.12	ug/L	
8260D_LL	75-27-4	Bromodichloromethane	Total	80		80	<0.080	ug/L		<0.080	ug/L	
8260D_LL	75-25-2	Bromoform	Total	80		80	<0.30	ug/L		<0.30	ug/L	
8260D_LL	74-83-9	Bromomethane	Total	0.75			<0.10	ug/L		<0.10	ug/L	
6020B	7440-43-9	Cadmium	Total Recoverable	5	1.8	5	<0.15	ug/L		<0.15	ug/L	
6020B	7440-70-2	Calcium	Total Recoverable				160000	ug/L		90000	ug/L	
8260D_LL	75-15-0	Carbon disulfide	Total	81			<0.10	ug/L		<0.10	ug/L	
8260D_LL	56-23-5	Carbon tetrachloride	Total	5		5	<0.10	ug/L		<0.10	ug/L	
8260D_LL	108-90-7	Chlorobenzene	Total	100		100	<0.070	ug/L		<0.070	ug/L	
8260D_LL	75-00-3	Chloroethane	Total	2100			<0.10	ug/L		<0.10	ug/L	
8260D_LL	67-66-3	Chloroform	Total	80		80	<0.090	ug/L		<0.090	ug/L	
8260D_LL	74-87-3	Chloromethane	Total	19			<0.10	ug/L		<0.10	ug/L	
6020B	7440-47-3	Chromium	Total Recoverable	100		100	21	ug/L		<0.55	ug/L	
8270D_SIM	218-01-9	Chrysene	Total	25			0.041	ug/L	J	<0.026	ug/L	
8260D_LL	156-59-2	cis-1,2-Dichloroethene	Total	70		70	<0.080	ug/L		0.10	ug/L	J
8260D_LL	10061-01-5	cis-1,3-Dichloropropene	Total				<0.10	ug/L		<0.10	ug/L	
6020B	7440-48-4	Cobalt	Total Recoverable				18	ug/L		0.53	ug/L	
6020B	7440-50-8	Copper	Total Recoverable	1300		1300	22	ug/L		0.91	ug/L	J
9040C	N/A	Corrosivity	Total				no	NONE	HF	NONE	NONE	HF
1677_Free	N/A	Cyanide, Free	Total	0.2	0.022	0.2	<0.0050	mg/L		<0.0050	mg/L	
8260D_LL	110-82-7	Cyclohexane	Total				<0.10	ug/L		<0.10	ug/L	
8270D_SIM	53-70-3	Dibenz[a,h]anthracene	Total	0.025			<0.021	ug/L		<0.021	ug/L	
8260D_LL	124-48-1	Dibromochloromethane	Total	80		80	<0.080	ug/L		<0.080	ug/L	
8260D_LL	75-71-8	Dichlorodifluoromethane	Total				<0.10	ug/L		<0.10	ug/L	
8015D_DRO	N/A	DRO (C10-C28)	Total	47			<47	ug/L		<51	ug/L	
8260D_LL	100-41-4	Ethylbenzene	Total	700		700	<0.080	ug/L		<0.080	ug/L	
8011	106-93-4	Ethylene Dibromide	Total	0.05		0.05	<0.0095	ug/L		<0.0093	ug/L	
8270D_SIM	206-44-0	Fluoranthene	Total	80			0.029	ug/L	J	<0.024	ug/L	
8270D_SIM	86-73-7	Fluorene	Total	29			<0.011	ug/L		<0.010	ug/L	
300_ORGFM_28D	16984-48-8	Fluoride	Total			4	3.9	mg/L	J	4.0	mg/L	
8015D_GRO	N/A	GRO	Total	47			<23	ug/L		<23	ug/L	
8270D_SIM	193-39-5	Indeno[1,2,3-cd]pyrene	Total	0.25			<0.021	ug/L		<0.021	ug/L	
6020B	7439-89-6	Iron	Total Recoverable	1400	See Reg		26000	ug/L		420	ug/L	
8260D_LL	98-82-8	Isopropylbenzene	Total	45			<0.080	ug/L		<0.080	ug/L	
6020B	7439-92-1	Lead	Total Recoverable	15	65	10	16	ug/L		<0.12	ug/L	
6020B	7439-95-4	Magnesium	Total Recoverable				24000	ug/L		14000	ug/L	
6020B	7439-96-5	Manganese	Total Recoverable	43			580	ug/L		130	ug/L	^2
7470A	7439-97-6	Mercury	Total	2	1.4	2	<0.087	ug/L		<0.087	ug/L	
8260D_LL	79-20-9	Methyl acetate	Total				<0.20	ug/L		<0.20	ug/L	
8260D_LL	1634-04-4	Methyl tertiary butyl ether	Total	20			<0.080	ug/L		<0.080	ug/L	
8260D_LL	108-87-2	Methylcyclohexane	Total				<0.10	ug/L		<0.10	ug/L	
8260D_LL	75-09-2	Methylene Chloride	Total	5		5	<0.20	ug/L		<0.20	ug/L	
8270D_SIM	91-20-3	Napthalene	Total	0.17			<0.072	ug/L		<0.070	ug/L	
6020B	7440-02-0	Nickel	Total Recoverable	39	470		24	ug/L		1.9	ug/L	
8082A_LL	12674-11-2	PCB-1016	Total	0.14	0.014*	0.5**	<0.0080	ug/L		<0.0080	ug/L	
8082A_LL	11104-28-2	PCB-1221	Total	0.0047	0.014*	0.5**	<0.0080	ug/L		<0.0080	ug/L	
8082A_LL	11141-16-5	PCB-1232	Total	0.0047	0.014*	0.5**	<0.0080	ug/L		<0.0080	ug/L	
8082A_LL	53469-21-9	PCB-1242	Total	0.0078	0.014*	0.5**	<0.0080	ug/L		<0.0080	ug/L	
8082A_LL	12672-29-6	PCB-1248	Total	0.0078	0.014*	0.5**	0.043	ug/L		<0.0080	ug/L	
8082A_LL	11097-69-1	PCB-1254	Total	0.0078	0.014*	0.5**	<0.0050	ug/L		<0.0050	ug/L	
8082A_LL	11096-82-5	PCB-1260	Total	0.0078	0.014*	0.5**	<0.0050	ug/L		<0.0050	ug/L	
9040C	N/A	pH	Total		See Reg		7.9	S.U.	HF	7.8	S.U.	HF
8270D_SIM	85-01-8	Phenanthrene	Total	12			<0.032	ug/L		<0.031	ug/L	
Total_PCB	1336-36-3	Polychlorinated biphenyls, Total	Total	0.5		0.5	0.043	ug/L		<0.0080	ug/L	
6020B	7440-09-7	Potassium	Total Recoverable				7000	ug/L		4300	ug/L	
8270D_SIM	129-00-0	Pyrene	Total	12			0.029	ug/L	J	<0.022	ug/L	
6020B	7782-49-2	Selenium	Total Recoverable	50	See Reg	50	0.60	ug/L	J	0.83	ug/L	J
6020B	7440-22-4	Silver	Total Recoverable	9.4	3.2		<0.10	ug/L		<0.10	ug/L	
6020B	7440-23-5	Sodium	Total Recoverable				53000	ug/L		87000	ug/L	^2
8260D_LL	100-42-5	Styrene	Total	100		100	<0.070	ug/L		<0.070	ug/L	
9040C	N/A	Temperature	Total				20.0	Degrees C	HF	20.8	Degrees C	HF
8260D_LL	127-18-4	Tetrachloroethene	Total	5		5	<0.20	ug/L		0.55	ug/L	
6020B	7440-28-0	Thallium	Total Recoverable	2		2	0.24	ug/L	J	<0.13	ug/L	
8260D_LL	108-88-3	Toluene	Total	1000		1000	<0.080	ug/L		<0.080	ug/L	
8260D_LL	156-60-5	trans-1,2-Dichloroethene	Total	100		100	<0.10	ug/L		<0.10	ug/L	
8260D_LL	10061-02-6	trans-1,3-Dichloropropene	Total				<0.080	ug/L		<0.080	ug/L	
8260D_LL	79-01-6	Trichloroethene	Total	5		5	<0.080	ug/L		0.27	ug/L	J
8260D_LL	75-69-4	Trichlorofluoromethane	Total				<0.10	ug/L		<0.10	ug/L	
6020B	7440-62-2	Vanadium	Total Recoverable	8.6			30	ug/L		<0.79	ug/L	
8260D_LL	75-01-4	Vinyl chloride	Total	2		2	<0.10	ug/L		<0.10	ug/L	
8260D_LL	1330-20-7	Xylenes, Total	Total	10000		10000	<0.070	ug/L		<0.070	ug/L	
6020B	7440-66-6	Zinc	Total Recoverable	600	120		48	ug/L		140	ug/L	

*0.014 ug/L is the aquatic life - chronic criteria for Total PCBs
**0.5 ug/L is the drinking water MCL for Total PCBs.
Results first compared to MCLs, then AWQCFA and MD LRP Cleanup Criteria if MCLs are not available.
Per the soil management plan, free cyanide would also be compared to the chronic AWQ criteria of 0.0052 ug/L, if discharging directly to surface water.
This table presents combined standards as specified by both MDE LMA and WSA. For LMA, results are compared to MCL and where there is no MCL to GWCS. For WSA, results are compared to lower of MCL and acute FW.
Orange shaded cells indicates exceedance of one or more criteria
Gray shaded cells indicate non-detections where the laboratory reporting limit is greater than the MDGW standard where the MDGW standard is the only standard available.
MDGW - Maryland Groundwater Cleanup Standards
MCL - Maryland state (or federal) maximum contaminant level (MCL) for drinking water
NC- no criteria available for the given analyte.
U - not detected at a concentration above laboratory detection limits.
HF - sample was analyzed outside of holding time at contractor's request.
J - estimated concentration; concentration is greater than the MDL but less than the RL
B - possible laboratory blank bias; analye found in the laboratory blank and in the sample.
for the noted analytes were recovered above the upper control limit. This affected the non-detect results.
*1 - LCS/LCSD exceeds allowable Relative percent difference

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June 20 2025

Specific Method	CAS#	Analyte	Results Basis	MD LRP Cleanup Stds_Tbl 1_GWs Aquifers_Oct2018	USEPA Aquatic_FreshWater_Ac ute_2024	USEPA RSLs THQ 0.1_MCLs_Nov2024	410-226101-3			410-226639-2		
							QM-R-255850-060625			QM-R-SV27472LM-061025		
							Result	Units	Qualifier	Result	Units	Qualifier
8260D_LL	71-55-6	1,1,1-Trichloroethane	Total	200		200	<0.080	ug/L		<0.080	ug/L	
8260D_LL	79-34-5	1,1,2,2-Tetrachloroethane	Total	0.076			<0.10	ug/L		<0.10	ug/L	
8260D_LL	79-00-5	1,1,2-Trichloroethane	Total	5		5	<0.080	ug/L		<0.080	ug/L	
8260D_LL	76-13-1	1,1,2-Trichlorotrifluoroethane	Total				<0.080	ug/L		<0.080	ug/L	
8260D_LL	75-34-3	1,1-Dichloroethane	Total	2.8			<0.10	ug/L		<0.10	ug/L	
8260D_LL	75-35-4	1,1-Dichloroethene	Total	7		7	<0.10	ug/L		<0.10	ug/L	
8260D_LL	120-82-1	1,2,4-Trichlorobenzene	Total	70		70	<0.070	ug/L		<0.070	ug/L	
8260D_LL	96-12-8	1,2-Dibromo-3-Chloropropane	Total	0.2		0.2	<0.10	ug/L		<0.10	ug/L	
8260D_LL	95-50-1	1,2-Dichlorobenzene	Total	600		600	<0.070	ug/L		0.54	ug/L	
8260D_LL	107-06-2	1,2-Dichloroethane	Total	5		5	<0.070	ug/L		<0.070	ug/L	
8260D_LL	78-87-5	1,2-Dichloropropane	Total	5		5	<0.10	ug/L		<0.10	ug/L	
8260D_LL	541-73-1	1,3-Dichlorobenzene	Total				<0.070	ug/L		<0.070	ug/L	
8260D_LL	106-46-7	1,4-Dichlorobenzene	Total	75		75	<0.070	ug/L		<0.070	ug/L	
8260D_LL	78-93-3	2-Butanone	Total	560			<1.0	ug/L		<1.0	ug/L	
8260D_LL	591-78-6	2-Hexanone	Total				<2.0	ug/L		<2.0	ug/L	
8260D_LL	108-10-1	4-Methyl-2-pentanone	Total	630			<1.0	ug/L		<1.0	ug/L	
8270D_SIM	83-32-9	Acenaphthene	Total	53			<0.011	ug/L		<0.010	ug/L	
8270D_SIM	208-96-8	Acenaphthylene	Total				<0.011	ug/L		<0.010	ug/L	
8260D_LL	67-64-1	Acetone	Total	1400			<1.5	ug/L		2.6	ug/L	J
6020B	7429-90-5	Aluminum	Total Recoverable	2000	1100		130	ug/L		54	ug/L	
8270D_SIM	120-12-7	Anthracene	Total	180			<0.011	ug/L		<0.010	ug/L	
6020B	7440-36-0	Antimony	Total Recoverable	6		6	<0.20	ug/L		0.40	ug/L	J
6020B	7440-38-2	Arsenic	Total Recoverable	10	340	10	<0.68	ug/L	^+	<0.68	ug/L	
6020B	7440-39-3	Barium	Total Recoverable	2000		2000	27	ug/L		48	ug/L	
8260D_LL	71-43-2	Benzene	Total	5		5	<0.10	ug/L		0.22	ug/L	J
8270D_SIM	56-55-3	Benzo[a]anthracene	Total	0.03			<0.011	ug/L		<0.010	ug/L	
8270D_SIM	50-32-8	Benzo[a]pyrene	Total	0.2		0.2	<0.011	ug/L		<0.010	ug/L	
8270D_SIM	205-99-2	Benzo[b]fluoranthene	Total	0.25			<0.050	ug/L		<0.047	ug/L	
8270D_SIM	191-24-2	Benzo[g,h,i]perylene	Total				<0.011	ug/L		<0.010	ug/L	
8270D_SIM	207-08-9	Benzo[k]fluoranthene	Total	2.5			<0.011	ug/L		<0.010	ug/L	
6020B	7440-41-7	Beryllium	Total Recoverable	4		4	<0.12	ug/L		<0.12	ug/L	
8260D_LL	75-27-4	Bromodichloromethane	Total	80		80	<0.080	ug/L		<0.080	ug/L	
8260D_LL	75-25-2	Bromoform	Total	80		80	<0.30	ug/L		<0.30	ug/L	
8260D_LL	74-83-9	Bromomethane	Total	0.75			<0.10	ug/L		<0.10	ug/L	
6020B	7440-43-9	Cadmium	Total Recoverable	5	1.8	5	<0.15	ug/L		<0.15	ug/L	
6020B	7440-70-2	Calcium	Total Recoverable				110000	ug/L		93000	ug/L	
8260D_LL	75-15-0	Carbon disulfide	Total	81			<0.10	ug/L		<0.10	ug/L	
8260D_LL	56-23-5	Carbon tetrachloride	Total	5		5	<0.10	ug/L		<0.10	ug/L	
8260D_LL	108-90-7	Chlorobenzene	Total	100		100	<0.070	ug/L		<0.070	ug/L	
8260D_LL	75-00-3	Chloroethane	Total	2100			<0.10	ug/L		<0.10	ug/L	
8260D_LL	67-66-3	Chloroform	Total	80		80	<0.090	ug/L		<0.090	ug/L	
8260D_LL	74-87-3	Chloromethane	Total	19			<0.10	ug/L		<0.10	ug/L	
6020B	7440-47-3	Chromium	Total Recoverable	100		100	<0.55	ug/L		<0.55	ug/L	
8270D_SIM	218-01-9	Chrysene	Total	25			<0.027	ug/L		<0.025	ug/L	
8260D_LL	156-59-2	cis-1,2-Dichloroethene	Total	70		70	0.093	ug/L	J	<0.080	ug/L	
8260D_LL	10061-01-5	cis-1,3-Dichloropropene	Total				<0.10	ug/L		<0.10	ug/L	
6020B	7440-48-4	Cobalt	Total Recoverable				0.49	ug/L	J	0.37	ug/L	J
6020B	7440-50-8	Copper	Total Recoverable	1300		1300	<0.85	ug/L		<0.85	ug/L	
9040C	N/A	Corrosivity	Total				No	NONE	HF	No	NONE	HF
1677_Free	N/A	Cyanide, Free	Total	0.2	0.022	0.2	<0.0050	mg/L		0.022	mg/L	
8260D_LL	110-82-7	Cyclohexane	Total				<0.10	ug/L		<0.10	ug/L	
8270D_SIM	53-70-3	Dibenz[a,h]anthracene	Total	0.025			<0.021	ug/L		<0.020	ug/L	
8260D_LL	124-48-1	Dibromochloromethane	Total	80		80	<0.080	ug/L		<0.080	ug/L	
8260D_LL	75-71-8	Dichlorodifluoromethane	Total				<0.10	ug/L		<0.10	ug/L	
8015D_DRO	N/A	DRO (C10-C28)	Total	47			<47	ug/L		<45	ug/L	*+ *1
8260D_LL	100-41-4	Ethylbenzene	Total	700		700	<0.080	ug/L		<0.080	ug/L	
8011	106-93-4	Ethylene Dibromide	Total	0.05		0.05	<0.0095	ug/L		<0.0096	ug/L	
8270D_SIM	206-44-0	Fluoranthene	Total	80			<0.025	ug/L		<0.023	ug/L	
8270D_SIM	86-73-7	Fluorene	Total	29			<0.011	ug/L		<0.010	ug/L	
300_ORGFM_28D	16984-48-8	Fluoride	Total			4	2.9	mg/L		0.69	mg/L	
8015D_GRO	N/A	GRO	Total	47			<23	ug/L		<23	ug/L	
8270D_SIM	193-39-5	Indeno[1,2,3-cd]pyrene	Total	0.25			<0.021	ug/L		<0.020	ug/L	
6020B	7439-89-6	Iron	Total Recoverable	1400	See Reg		450	ug/L		84	ug/L	
8260D_LL	98-82-8	Isopropylbenzene	Total	45			<0.080	ug/L		<0.080	ug/L	
6020B	7439-92-1	Lead	Total Recoverable	15	65	10	0.28	ug/L	J	<0.12	ug/L	
6020B	7439-95-4	Magnesium	Total Recoverable				17000	ug/L		11000	ug/L	
6020B	7439-96-5	Manganese	Total Recoverable	43			150	ug/L		27	ug/L	B
7470A	7439-97-6	Mercury	Total	2	1.4	2	<0.087	ug/L		<0.087	ug/L	
8260D_LL	79-20-9	Methyl acetate	Total				<0.20	ug/L		<0.20	ug/L	
8260D_LL	1634-04-4	Methyl tertiary butyl ether	Total	20			<0.080	ug/L		<0.080	ug/L	
8260D_LL	108-87-2	Methylcyclohexane	Total				<0.10	ug/L		<0.10	ug/L	
8260D_LL	75-09-2	Methylene Chloride	Total	5		5	<0.20	ug/L		<0.20	ug/L	
8270D_SIM	91-20-3	Napthalene	Total	0.17			<0.073	ug/L		<0.069	ug/L	
6020B	7440-02-0	Nickel	Total Recoverable	39		470	1.6	ug/L		0.88	ug/L	J
8082A_LL	12674-11-2	PCB-1016	Total	0.14	0.014*	0.5**	<0.0077	ug/L		<0.0076	ug/L	
8082A_LL	11104-28-2	PCB-1221	Total	0.0047	0.014*	0.5**	<0.0077	ug/L		<0.0076	ug/L	
8082A_LL	11141-16-5	PCB-1232	Total	0.0047	0.014*	0.5**	<0.0077	ug/L		<0.0076	ug/L	
8082A_LL	53469-21-9	PCB-1242	Total	0.0078	0.014*	0.5**	<0.0077	ug/L		<0.0076	ug/L	
8082A_LL	12672-29-6	PCB-1248	Total	0.0078	0.014*	0.5**	<0.0077	ug/L		<0.0076	ug/L	
8082A_LL	11097-69-1	PCB-1254	Total	0.0078	0.014*	0.5**	<0.0048	ug/L		<0.0047	ug/L	
8082A_LL	11096-82-5	PCB-1260	Total	0.0078	0.014*	0.5**	<0.0048	ug/L		<0.0047	ug/L	
9040C	N/A	pH	Total		See Reg		7.6	S.U.	HF	7.9	S.U.	HF
8270D_SIM	85-01-8	Phenanthrene	Total	12			<0.032	ug/L		<0.030	ug/L	
Total_PCB	1336-36-3	Polychlorinated biphenyls, Total	Total	0.5		0.5				<0.0076	ug/L	
6020B	7440-09-7	Potassium	Total Recoverable				2700	ug/L		2700	ug/L	
8270D_SIM	129-00-0	Pyrene	Total	12			<0.022	ug/L		<0.021	ug/L	
6020B	7782-49-2	Selenium	Total Recoverable	50	See Reg	50	0.64	ug/L	J	0.67	ug/L	J
6020B	7440-22-4	Silver	Total Recoverable	9.4	3.2		<0.10	ug/L		<0.10	ug/L	
6020B	7440-23-5	Sodium	Total Recoverable				89000	ug/L		30000	ug/L	
8260D_LL	100-42-5	Styrene	Total	100		100	<0.070	ug/L		<0.070	ug/L	
9040C	N/A	Temperature	Total				19.3	Degrees C	HF	21.4	Degrees C	HF
8260D_LL	127-18-4	Tetrachloroethene	Total	5		5	0.69	ug/L		<0.20	ug/L	
6020B	7440-28-0	Thallium	Total Recoverable	2		2	<0.13	ug/L		<0.13	ug/L	
8260D_LL	108-88-3	Toluene	Total	1000		1000	<0.080	ug/L		0.083	ug/L	J
8260D_LL	156-60-5	trans-1,2-Dichloroethene	Total	100		100	<0.10	ug/L		<0.10	ug/L	
8260D_LL	10061-02-6	trans-1,3-Dichloropropene	Total				<0.080	ug/L		<0.080	ug/L	
8260D_LL	79-01-6	Trichloroethene	Total	5		5	0.28	ug/L	J	<0.080	ug/L	
8260D_LL	75-69-4	Trichlorofluoromethane	Total				<0.10	ug/L		<0.10	ug/L	
6020B	7440-62-2	Vanadium	Total Recoverable	8.6			<0.79	ug/L		<0.79	ug/L	
8260D_LL	75-01-4	Vinyl chloride	Total	2		2	<0.10	ug/L		<0.020	ug/L	
8260D_LL	1330-20-7	Xylenes, Total	Total	10000		10000	<0.070	ug/L		0.10	ug/L	J
6020B	7440-66-6	Zinc	Total Recoverable	600	120		240	ug/L		23	ug/L	

*0.014 ug/L is the aquatic life - chronic criteria for Total PCBs

**0.5 ug/L is the drinking water MCL for Total PCBs.

Results first compared to MCLs, then AWQCFA and MD LRP Cleanup Criteria if MCLs are not available.

Per the soil management plan, free cyanide would also be compared to the chronic AWQ criteria of 0.0052 ug/L, if discharging directly to surface water.

This table presents combined standards as specified by both MDE LMA and WSA. For LMA, results are compared to MCL and where there is no MCL to GWCS. For WSA, results are compared to lower of MCL and acute FW.

Orange shaded cells indicates exceedance of one or more criteria

Gray shaded cells indicate non-detections where the laboratory reporting limit is greater than the MDGW standard where the MDGW standard is the only standard available.

MDGW - Maryland Groundwater Cleanup Standards

MCL - Maryland state (or federal) maximum contaminant level (MCL) for drinking water

NC- no criteria available for the given analyte.

U - not detected at a concentration above laboratory detection limits.

HF - sample was analyzed outside of holding time at contractor's request.

J - estimated concentration; concentration is greater than the MDL but less than the RL.

B - possible laboratory blank bias; analye found in the laboratory blank and in the sample.

for the noted analytes were recovered above the upper control limit. This affected the non-detect results.

*1 - LCS/LCSD exceeds allowable Relative percent difference

Frac Tanks for Dust Control
259852, 266323, 260714, 255850, 251186, SV27472LM, SV23192L, SV27454LM
June 20 2025

Specific Method	CAS#	Analyte	Results Basis	MD LRP Cleanup Stds_Tbl 1_GWs Aquifers_Oct2018	USEPA Aquatic_FreshWater_Ac ute_2024	USEPA RSLs THQ 0.1_MCLs_Nov2024	410-226639-3			410-226639-4		
							QM-R-SV23192L-061025			QM-R-SV27454LM-061025		
							Result	Units	Qualifier	Result	Units	Qualifier
8260D_LL	71-55-6	1,1,1-Trichloroethane	Total	200		200	<0.080	ug/L		<0.080	ug/L	
8260D_LL	79-34-5	1,1,2,2-Tetrachloroethane	Total	0.076			<0.10	ug/L		<0.10	ug/L	
8260D_LL	79-00-5	1,1,2-Trichloroethane	Total	5		5	<0.080	ug/L		<0.080	ug/L	
8260D_LL	76-13-1	1,1,2-Trichlorotrifluoroethane	Total				<0.080	ug/L		<0.080	ug/L	
8260D_LL	75-34-3	1,1-Dichloroethane	Total	2.8			<0.10	ug/L		<0.10	ug/L	
8260D_LL	75-35-4	1,1-Dichloroethene	Total	7		7	<0.10	ug/L		<0.10	ug/L	
8260D_LL	120-82-1	1,2,4-Trichlorobenzene	Total	70		70	<0.070	ug/L		<0.070	ug/L	
8260D_LL	96-12-8	1,2-Dibromo-3-Chloropropane	Total	0.2		0.2	<0.10	ug/L		<0.10	ug/L	
8260D_LL	95-50-1	1,2-Dichlorobenzene	Total	600		600	<0.070	ug/L		<0.070	ug/L	
8260D_LL	107-06-2	1,2-Dichloroethane	Total	5		5	<0.070	ug/L		<0.070	ug/L	
8260D_LL	78-87-5	1,2-Dichloropropane	Total	5		5	<0.10	ug/L		<0.10	ug/L	
8260D_LL	541-73-1	1,3-Dichlorobenzene	Total				<0.070	ug/L		<0.070	ug/L	
8260D_LL	106-46-7	1,4-Dichlorobenzene	Total	75		75	<0.070	ug/L		<0.070	ug/L	
8260D_LL	78-93-3	2-Butanone	Total	560			<1.0	ug/L		<1.0	ug/L	
8260D_LL	591-78-6	2-Hexanone	Total				<2.0	ug/L		<2.0	ug/L	
8260D_LL	108-10-1	4-Methyl-2-pentanone	Total	630			<1.0	ug/L		<1.0	ug/L	
8270D_SIM	83-32-9	Acenaphthene	Total	53			<0.010	ug/L		<0.010	ug/L	
8270D_SIM	208-96-8	Acenaphthylene	Total				<0.010	ug/L		<0.010	ug/L	
8260D_LL	67-64-1	Acetone	Total	1400			<1.5	ug/L		<1.5	ug/L	
6020B	7429-90-5	Aluminum	Total Recoverable	2000	1100		78	ug/L		310	ug/L	
8270D_SIM	120-12-7	Anthracene	Total	180			<0.010	ug/L		<0.010	ug/L	
6020B	7440-36-0	Antimony	Total Recoverable	6		6	<0.20	ug/L		<0.20	ug/L	
6020B	7440-38-2	Arsenic	Total Recoverable	10	340	10	<0.68	ug/L		<0.68	ug/L	
6020B	7440-39-3	Barium	Total Recoverable	2000		2000	47	ug/L		45	ug/L	
8260D_LL	71-43-2	Benzene	Total	5		5	0.35	ug/L	J	<0.10	ug/L	
8270D_SIM	56-55-3	Benzo[a]anthracene	Total	0.03			<0.010	ug/L		<0.010	ug/L	
8270D_SIM	50-32-8	Benzo[a]pyrene	Total	0.2		0.2	<0.010	ug/L		<0.010	ug/L	
8270D_SIM	205-99-2	Benzo[b]fluoranthene	Total	0.25			<0.048	ug/L		<0.048	ug/L	
8270D_SIM	191-24-2	Benzo[g,h,i]perylene	Total				<0.010	ug/L		<0.010	ug/L	
8270D_SIM	207-08-9	Benzo[k]fluoranthene	Total	2.5			<0.010	ug/L		<0.010	ug/L	
6020B	7440-41-7	Beryllium	Total Recoverable	4		4	<0.12	ug/L		<0.12	ug/L	
8260D_LL	75-27-4	Bromodichloromethane	Total	80		80	<0.080	ug/L		<0.080	ug/L	
8260D_LL	75-25-2	Bromoform	Total	80		80	<0.30	ug/L		<0.30	ug/L	
8260D_LL	74-83-9	Bromomethane	Total	0.75			<0.10	ug/L		<0.10	ug/L	
6020B	7440-43-9	Cadmium	Total Recoverable	5	1.8	5	<0.15	ug/L		<0.15	ug/L	
6020B	7440-70-2	Calcium	Total Recoverable				93000	ug/L		88000	ug/L	
8260D_LL	75-15-0	Carbon disulfide	Total	81			<0.10	ug/L		<0.10	ug/L	
8260D_LL	56-23-5	Carbon tetrachloride	Total	5		5	<0.10	ug/L		<0.10	ug/L	
8260D_LL	108-90-7	Chlorobenzene	Total	100		100	<0.070	ug/L		<0.070	ug/L	
8260D_LL	75-00-3	Chloroethane	Total	2100			<0.10	ug/L		<0.10	ug/L	
8260D_LL	67-66-3	Chloroform	Total	80		80	<0.090	ug/L		<0.090	ug/L	
8260D_LL	74-87-3	Chloromethane	Total	19			<0.10	ug/L		<0.10	ug/L	
6020B	7440-47-3	Chromium	Total Recoverable	100		100	<0.55	ug/L		<0.55	ug/L	
8270D_SIM	218-01-9	Chrysene	Total	25			<0.025	ug/L		<0.026	ug/L	
8260D_LL	156-59-2	cis-1,2-Dichloroethene	Total	70		70	<0.080	ug/L		<0.080	ug/L	
8260D_LL	10061-01-5	cis-1,3-Dichloropropene	Total				<0.10	ug/L		<0.10	ug/L	
6020B	7440-48-4	Cobalt	Total Recoverable				0.18	ug/L	J	0.60	ug/L	
6020B	7440-50-8	Copper	Total Recoverable	1300		1300	<0.85	ug/L		<0.85	ug/L	
9040C	N/A	Corrosivity	Total				NO	NONE	HF	NO	NONE	HF
1677_Free	N/A	Cyanide, Free	Total	0.2	0.022	0.2	<0.0050	mg/L		<0.0050	mg/L	
8260D_LL	110-82-7	Cyclohexane	Total				<0.10	ug/L		<0.10	ug/L	
8270D_SIM	53-70-3	Dibenz[a,h]anthracene	Total	0.025			<0.020	ug/L		<0.020	ug/L	
8260D_LL	124-48-1	Dibromochloromethane	Total	80		80	<0.080	ug/L		<0.080	ug/L	
8260D_LL	75-71-8	Dichlorodifluoromethane	Total				<0.10	ug/L		<0.10	ug/L	
8015D_DRO	N/A	DRO (C10-C28)	Total	47			<46	ug/L	*+ *1	<46	ug/L	*+ *1
8260D_LL	100-41-4	Ethylbenzene	Total	700		700	<0.080	ug/L		<0.080	ug/L	
8011	106-93-4	Ethylene Dibromide	Total	0.05		0.05	<0.0095	ug/L		<0.0095	ug/L	
8270D_SIM	206-44-0	Fluoranthene	Total	80			<0.023	ug/L		<0.024	ug/L	
8270D_SIM	86-73-7	Fluorene	Total	29			<0.010	ug/L		<0.010	ug/L	
300_ORGFM_28D	16984-48-8	Fluoride	Total			4	0.82	mg/L		0.34	mg/L	
8015D_GRO	N/A	GRO	Total	47			<23	ug/L		<23	ug/L	
8270D_SIM	193-39-5	Indeno[1,2,3-cd]pyrene	Total	0.25			<0.020	ug/L		<0.020	ug/L	
6020B	7439-89-6	Iron	Total Recoverable	1400	See Reg		120	ug/L		270	ug/L	
8260D_LL	98-82-8	Isopropylbenzene	Total	45			<0.080	ug/L		<0.080	ug/L	
6020B	7439-92-1	Lead	Total Recoverable	15	65	10	<0.12	ug/L		0.25	ug/L	J
6020B	7439-95-4	Magnesium	Total Recoverable				11000	ug/L		9500	ug/L	
6020B	7439-96-5	Manganese	Total Recoverable	43			29	ug/L		94	ug/L	B
7470A	7439-97-6	Mercury	Total	2	1.4	2	<0.087	ug/L		<0.087	ug/L	
8260D_LL	79-20-9	Methyl acetate	Total				<0.20	ug/L		<0.20	ug/L	
8260D_LL	1634-04-4	Methyl tertiary butyl ether	Total	20			<0.080	ug/L		<0.080	ug/L	
8260D_LL	108-87-2	Methylcyclohexane	Total				<0.10	ug/L		<0.10	ug/L	
8260D_LL	75-09-2	Methylene Chloride	Total	5		5	<0.20	ug/L		<0.20	ug/L	
8270D_SIM	91-20-3	Napthalene	Total	0.17			<0.069	ug/L		<0.070	ug/L	
6020B	7440-02-0	Nickel	Total Recoverable	39		470	<0.40	ug/L		0.56	ug/L	J
8082A_LL	12674-11-2	PCB-1016	Total	0.14	0.014*	0.5**	<0.0075	ug/L		<0.0076	ug/L	
8082A_LL	11104-28-2	PCB-1221	Total	0.0047	0.014*	0.5**	<0.0075	ug/L		<0.0076	ug/L	
8082A_LL	11141-16-5	PCB-1232	Total	0.0047	0.014*	0.5**	<0.0075	ug/L		<0.0076	ug/L	
8082A_LL	53469-21-9	PCB-1242	Total	0.0078	0.014*	0.5**	<0.0075	ug/L		<0.0076	ug/L	
8082A_LL	12672-29-6	PCB-1248	Total	0.0078	0.014*	0.5**	<0.0075	ug/L		<0.0076	ug/L	
8082A_LL	11097-69-1	PCB-1254	Total	0.0078	0.014*	0.5**	<0.0047	ug/L		<0.0047	ug/L	
8082A_LL	11096-82-5	PCB-1260	Total	0.0078	0.014*	0.5**	<0.0047	ug/L		<0.0047	ug/L	
9040C	N/A	pH	Total		See Reg		7.8	S.U.	HF	7.8	S.U.	HF
8270D_SIM	85-01-8	Phenanthrene	Total	12			<0.031	ug/L		<0.031	ug/L	
Total_PCB	1336-36-3	Polychlorinated biphenyls, Total	Total	0.5		0.5	<0.0075	ug/L		<0.0076	ug/L	
6020B	7440-09-7	Potassium	Total Recoverable				2400	ug/L		2200	ug/L	
8270D_SIM	129-00-0	Pyrene	Total	12			<0.021	ug/L		<0.022	ug/L	
6020B	7782-49-2	Selenium	Total Recoverable	50	See Reg	50	0.30	ug/L	J	0.33	ug/L	J
6020B	7440-22-4	Silver	Total Recoverable	9.4	3.2		<0.10	ug/L		<0.10	ug/L	
6020B	7440-23-5	Sodium	Total Recoverable				21000	ug/L		10000	ug/L	
8260D_LL	100-42-5	Styrene	Total	100		100	<0.070	ug/L		<0.070	ug/L	
9040C	N/A	Temperature	Total				21.4	Degrees C	HF	21.3	Degrees C	HF
8260D_LL	127-18-4	Tetrachloroethene	Total	5		5	<0.20	ug/L		<0.20	ug/L	
6020B	7440-28-0	Thallium	Total Recoverable	2		2	<0.13	ug/L		<0.13	ug/L	
8260D_LL	108-88-3	Toluene	Total	1000		1000	0.11	ug/L	J	1.5	ug/L	
8260D_LL	156-60-5	trans-1,2-Dichloroethene	Total	100		100	<0.10	ug/L		<0.10	ug/L	
8260D_LL	10061-02-6	trans-1,3-Dichloropropene	Total				<0.080	ug/L		<0.080	ug/L	
8260D_LL	79-01-6	Trichloroethene	Total	5		5	<0.080	ug/L		<0.080	ug/L	
8260D_LL	75-69-4	Trichlorofluoromethane	Total				<0.10	ug/L		<0.10	ug/L	
6020B	7440-62-2	Vanadium	Total Recoverable	8.6			<0.79	ug/L		0.90	ug/L	J
8260D_LL	75-01-4	Vinyl chloride	Total	2		2	<0.020	ug/L		<0.020	ug/L	
8260D_LL	1330-20-7	Xylenes, Total	Total	10000		10000	<0.070	ug/L		<0.070	ug/L	
6020B	7440-66-6	Zinc	Total Recoverable	600	120		4.6	ug/L	J	<4.0	ug/L	

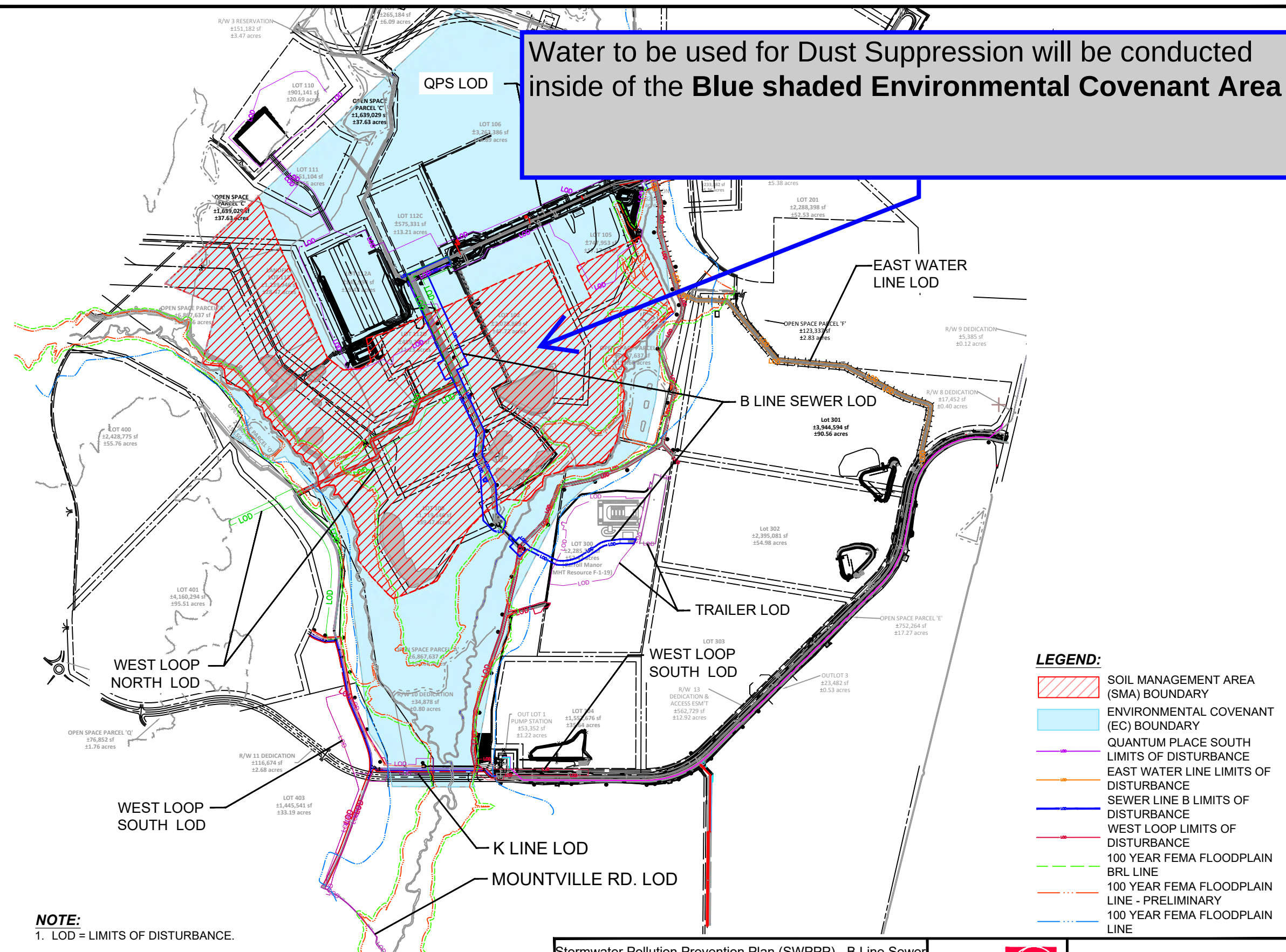
*0.014 ug/L is the aquatic life - chronic criteria for Total PCBs
**0.5 ug/L is the drinking water MCL for Total PCBs.
Results first compared to MCLs, then AWQCFA and MD LRP Cleanup Criteria if MCLs are not available.
Per the soil management plan, free cyanide would also be compared to the chronic AWQ criteria of 0.0052 ug/L, if discharging directly to surface water.
This table presents combined standards as specified by both MDE LMA and WSA. For LMA, results are compared to MCL and where there is no MCL to GWCS. For WSA, results are compared to lower of MCL and acute FW.
Orange shaded cells indicates exceedance of one or more criteria
Gray shaded cells indicate non-detections where the laboratory reporting limit is greater than the MDGW standard where the MDGW standard is the only standard available.
MDGW - Maryland Groundwater Cleanup Standards
MCL - Maryland state (or federal) maximum contaminant level (MCL) for drinking water
NC - no criteria available for the given analyte.
U - not detected at a concentration above laboratory detection limits.
HF - sample was analyzed outside of holding time at contractor's request.
J - estimated concentration; concentration is greater than the MDL but less than the RL
B - possible laboratory blank bias; analye found in the laboratory blank and in the sample.
for the noted analytes were recovered above the upper control limit. This affected the non-detect results.
*1 - LCS/LCSD exceeds allowable Relative percent difference

Frac Tanks for Dust Control
259852, 266323, 260714, 255850, 251186, SV27472LM, SV23192L, SV27454LM
June 20 2025

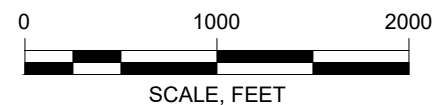
Specific Method	CAS#	Analyte	Results Basis	MD LRP Cleanup Stds_Tbl 1_GWs Aquifers_Oct2018	USEPA Aquatic_FreshWater_Ac ute_2024	USEPA RSLs THQ 0.1_MCLs_Nov2024	410-226639-5			410-227023-2		
							QM-R-260714-061025			QM-R-251186-061225		
							Result	Units	Qualifier	Result	Units	Qualifier
8260D_LL	71-55-6	1,1,1-Trichloroethane	Total	200		200	<0.080	ug/L		<0.080	ug/L	
8260D_LL	79-34-5	1,1,2,2-Tetrachloroethane	Total	0.076			<0.10	ug/L		<0.10	ug/L	
8260D_LL	79-00-5	1,1,2-Trichloroethane	Total	5		5	<0.080	ug/L		<0.080	ug/L	
8260D_LL	76-13-1	1,1,2-Trichlorotrifluoroethane	Total				<0.080	ug/L		<0.080	ug/L	
8260D_LL	75-34-3	1,1-Dichloroethane	Total	2.8			<0.10	ug/L		<0.10	ug/L	
8260D_LL	75-35-4	1,1-Dichloroethene	Total	7		7	<0.10	ug/L		<0.10	ug/L	
8260D_LL	120-82-1	1,2,4-Trichlorobenzene	Total	70		70	<0.070	ug/L		<0.070	ug/L	
8260D_LL	96-12-8	1,2-Dibromo-3-Chloropropane	Total	0.2		0.2	<0.10	ug/L		<0.10	ug/L	
8260D_LL	95-50-1	1,2-Dichlorobenzene	Total	600		600	<0.070	ug/L		<0.070	ug/L	
8260D_LL	107-06-2	1,2-Dichloroethane	Total	5		5	<0.070	ug/L		<0.070	ug/L	
8260D_LL	78-87-5	1,2-Dichloropropane	Total	5		5	<0.10	ug/L		<0.10	ug/L	
8260D_LL	541-73-1	1,3-Dichlorobenzene	Total				<0.070	ug/L		<0.070	ug/L	
8260D_LL	106-46-7	1,4-Dichlorobenzene	Total	75		75	<0.070	ug/L		<0.070	ug/L	
8260D_LL	78-93-3	2-Butanone	Total	560			<1.0	ug/L		<1.0	ug/L	
8260D_LL	591-78-6	2-Hexanone	Total				<2.0	ug/L		<2.0	ug/L	
8260D_LL	108-10-1	4-Methyl-2-pentanone	Total	630			<1.0	ug/L		<1.0	ug/L	
8270D_SIM	83-32-9	Acenaphthene	Total	53			<0.011	ug/L		<0.010	ug/L	
8270D_SIM	208-96-8	Acenaphthylene	Total				<0.011	ug/L		<0.010	ug/L	
8260D_LL	67-64-1	Acetone	Total	1400			<1.5	ug/L		<1.5	ug/L	
6020B	7429-90-5	Aluminum	Total Recoverable	2000	1100		28	ug/L		44	ug/L	
8270D_SIM	120-12-7	Anthracene	Total	180			<0.011	ug/L		<0.010	ug/L	
6020B	7440-36-0	Antimony	Total Recoverable	6		6	0.23	ug/L	J	0.25	ug/L	J
6020B	7440-38-2	Arsenic	Total Recoverable	10	340	10	<0.68	ug/L		0.91	ug/L	J
6020B	7440-39-3	Barium	Total Recoverable	2000		2000	24	ug/L		30	ug/L	
8260D_LL	71-43-2	Benzene	Total	5		5	<0.10	ug/L		<0.10	ug/L	
8270D_SIM	56-55-3	Benzo[a]anthracene	Total	0.03			<0.011	ug/L		<0.010	ug/L	
8270D_SIM	50-32-8	Benzo[a]pyrene	Total	0.2		0.2	<0.011	ug/L		<0.010	ug/L	
8270D_SIM	205-99-2	Benzo[b]fluoranthene	Total	0.25			<0.051	ug/L		<0.048	ug/L	
8270D_SIM	191-24-2	Benzo[g,h,i]perylene	Total				<0.011	ug/L		<0.010	ug/L	
8270D_SIM	207-08-9	Benzo[k]fluoranthene	Total	2.5			<0.011	ug/L		<0.010	ug/L	
6020B	7440-41-7	Beryllium	Total Recoverable	4		4	<0.12	ug/L		<0.12	ug/L	
8260D_LL	75-27-4	Bromodichloromethane	Total	80		80	<0.080	ug/L		<0.080	ug/L	
8260D_LL	75-25-2	Bromoform	Total	80		80	<0.30	ug/L		<0.30	ug/L	
8260D_LL	74-83-9	Bromomethane	Total	0.75			<0.10	ug/L		<0.10	ug/L	
6020B	7440-43-9	Cadmium	Total Recoverable	5	1.8	5	<0.15	ug/L		<0.15	ug/L	
6020B	7440-70-2	Calcium	Total Recoverable				100000	ug/L		100000	ug/L	
8260D_LL	75-15-0	Carbon disulfide	Total	81			<0.10	ug/L		<0.10	ug/L	
8260D_LL	56-23-5	Carbon tetrachloride	Total	5		5	<0.10	ug/L		<0.10	ug/L	
8260D_LL	108-90-7	Chlorobenzene	Total	100		100	<0.070	ug/L		<0.070	ug/L	
8260D_LL	75-00-3	Chloroethane	Total	2100			<0.10	ug/L		<0.10	ug/L	
8260D_LL	67-66-3	Chloroform	Total	80		80	<0.090	ug/L		<0.090	ug/L	
8260D_LL	74-87-3	Chloromethane	Total	19			<0.10	ug/L		0.22	ug/L	J
6020B	7440-47-3	Chromium	Total Recoverable	100		100	<0.55	ug/L		<0.55	ug/L	
8270D_SIM	218-01-9	Chrysene	Total	25			<0.027	ug/L		<0.026	ug/L	
8260D_LL	156-59-2	cis-1,2-Dichloroethene	Total	70		70	<0.080	ug/L		<0.080	ug/L	
8260D_LL	10061-01-5	cis-1,3-Dichloropropene	Total				<0.10	ug/L		<0.10	ug/L	
6020B	7440-48-4	Cobalt	Total Recoverable				0.79	ug/L		0.56	ug/L	
6020B	7440-50-8	Copper	Total Recoverable	1300		1300	<0.85	ug/L		<0.85	ug/L	
9040C	N/A	Corrosivity	Total				NO	NONE	HF	NO	NONE	HF
1677_Free	N/A	Cyanide, Free	Total	0.2	0.022	0.2	<0.0050	mg/L		<0.0050	mg/L	
8260D_LL	110-82-7	Cyclohexane	Total				<0.10	ug/L		<0.10	ug/L	
8270D_SIM	53-70-3	Dibenz[a,h]anthracene	Total	0.025			<0.022	ug/L		<0.021	ug/L	
8260D_LL	124-48-1	Dibromochloromethane	Total	80		80	<0.080	ug/L		<0.080	ug/L	
8260D_LL	75-71-8	Dichlorodifluoromethane	Total				<0.10	ug/L		<0.10	ug/L	
8015D_DRO	N/A	DRO (C10-C28)	Total	47			<47	ug/L	*+ *1	<49	ug/L	
8260D_LL	100-41-4	Ethylbenzene	Total	700		700	<0.080	ug/L		<0.080	ug/L	
8011	106-93-4	Ethylene Dibromide	Total	0.05		0.05	<0.0096	ug/L		<0.0094	ug/L	
8270D_SIM	206-44-0	Fluoranthene	Total	80			<0.025	ug/L		<0.024	ug/L	
8270D_SIM	86-73-7	Fluorene	Total	29			<0.011	ug/L		<0.010	ug/L	
300_ORGFM_28D	16984-48-8	Fluoride	Total			4	2.9	mg/L		2.9	mg/L	
8015D_GRO	N/A	GRO	Total	47			<23	ug/L		<23	ug/L	
8270D_SIM	193-39-5	Indeno[1,2,3-cd]pyrene	Total	0.25			<0.022	ug/L		<0.021	ug/L	
6020B	7439-89-6	Iron	Total Recoverable	1400	See Reg		700	ug/L		160	ug/L	
8260D_LL	98-82-8	Isopropylbenzene	Total	45			<0.080	ug/L		<0.080	ug/L	
6020B	7439-92-1	Lead	Total Recoverable	15	65	10	<0.12	ug/L		<0.12	ug/L	
6020B	7439-95-4	Magnesium	Total Recoverable				16000	ug/L		16000	ug/L	
6020B	7439-96-5	Manganese	Total Recoverable	43			170	ug/L		88	ug/L	
7470A	7439-97-6	Mercury	Total	2	1.4	2	<0.087	ug/L		<0.087	ug/L	
8260D_LL	79-20-9	Methyl acetate	Total				<0.20	ug/L		<0.20	ug/L	
8260D_LL	1634-04-4	Methyl tertiary butyl ether	Total	20			<0.080	ug/L		<0.080	ug/L	
8260D_LL	108-87-2	Methylcyclohexane	Total				<0.10	ug/L		<0.10	ug/L	
8260D_LL	75-09-2	Methylene Chloride	Total	5		5	<0.20	ug/L		<0.20	ug/L	
8270D_SIM	91-20-3	Napthalene	Total	0.17			<0.074	ug/L		0.097	ug/L	
6020B	7440-02-0	Nickel	Total Recoverable	39	470		2.2	ug/L		1.6	ug/L	
8082A_LL	12674-11-2	PCB-1016	Total	0.14	0.014*	0.5**	<0.0080	ug/L		<0.0082	ug/L	
8082A_LL	11104-28-2	PCB-1221	Total	0.0047	0.014*	0.5**	<0.0080	ug/L		<0.0082	ug/L	
8082A_LL	11141-16-5	PCB-1232	Total	0.0047	0.014*	0.5**	<0.0080	ug/L		<0.0082	ug/L	
8082A_LL	53469-21-9	PCB-1242	Total	0.0078	0.014*	0.5**	<0.0080	ug/L		<0.0082	ug/L	
8082A_LL	12672-29-6	PCB-1248	Total	0.0078	0.014*	0.5**	<0.0080	ug/L		<0.0082	ug/L	
8082A_LL	11097-69-1	PCB-1254	Total	0.0078	0.014*	0.5**	<0.0050	ug/L		<0.0051	ug/L	
8082A_LL	11096-82-5	PCB-1260	Total	0.0078	0.014*	0.5**	<0.0050	ug/L		<0.0051	ug/L	
9040C	N/A	pH	Total		See Reg		8.0	S.U.	HF	7.9	S.U.	HF
8270D_SIM	85-01-8	Phenanthrene	Total	12			<0.033	ug/L		<0.031	ug/L	
Total_PCB	1336-36-3	Polychlorinated biphenyls, Total	Total	0.5		0.5	<0.0080	ug/L		<0.0082	ug/L	
6020B	7440-09-7	Potassium	Total Recoverable				4400	ug/L		3000	ug/L	B
8270D_SIM	129-00-0	Pyrene	Total	12			<0.023	ug/L		<0.022	ug/L	
6020B	7782-49-2	Selenium	Total Recoverable	50	See Reg	50	0.63	ug/L	J	1.3	ug/L	
6020B	7440-22-4	Silver	Total Recoverable	9.4	3.2		0.23	ug/L	J	<0.10	ug/L	
6020B	7440-23-5	Sodium	Total Recoverable				71000	ug/L		78000	ug/L	
8260D_LL	100-42-5	Styrene	Total	100		100	<0.070	ug/L		<0.070	ug/L	
9040C	N/A	Temperature	Total				21.3	Degrees C	HF	18.8	Degrees C	HF
8260D_LL	127-18-4	Tetrachloroethene	Total	5		5	<0.20	ug/L		0.30	ug/L	J
6020B	7440-28-0	Thallium	Total Recoverable	2		2	<0.13	ug/L		<0.13	ug/L	
8260D_LL	108-88-3	Toluene	Total	1000		1000	<0.080	ug/L		<0.080	ug/L	
8260D_LL	156-60-5	trans-1,2-Dichloroethene	Total	100		100	<0.10	ug/L		<0.10	ug/L	
8260D_LL	10061-02-6	trans-1,3-Dichloropropene	Total				<0.080	ug/L		<0.080	ug/L	
8260D_LL	79-01-6	Trichloroethene	Total	5		5	<0.080	ug/L		0.13	ug/L	J
8260D_LL	75-69-4	Trichlorofluoromethane	Total				<0.10	ug/L		<0.10	ug/L	
6020B	7440-62-2	Vanadium	Total Recoverable	8.6			<0.79	ug/L		<0.79	ug/L	
8260D_LL	75-01-4	Vinyl chloride	Total	2		2	<0.020	ug/L		<0.10	ug/L	
8260D_LL	1330-20-7	Xylenes, Total	Total	10000		10000	<0.070	ug/L		<0.070	ug/L	
6020B	7440-66-6	Zinc	Total Recoverable	600	120		<4.0	ug/L		240	ug/L	

*0.014 ug/L is the aquatic life - chronic criteria for Total PCBs
**0.5 ug/L is the drinking water MCL for Total PCBs.
Results first compared to MCLs, then AWQCFA and MD LRP Cleanup Criteria if MCLs are not available.
Per the soil management plan, free cyanide would also be compared to the chronic AWQ criteria of 0.0052 ug/L, if discharging directly to surface water.
This table presents combined standards as specified by both MDE LMA and WSA. For LMA, results are compared to MCL and where there is no MCL to GWCS. For WSA, results are compared to lower of MCL and acute FW.
Orange shaded cells indicates exceedance of one or more criteria
Gray shaded cells indicate non-detections where the laboratory reporting limit is greater than the MDGW standard where the MDGW standard is the only standard available.
MDGW - Maryland Groundwater Cleanup Standards
MCL - Maryland state (or federal) maximum contaminant level (MCL) for drinking water
NC- no criteria available for the given analyte.
U - not detected at a concentration above laboratory detection limits.
HF - sample was analyzed outside of holding time at contractor's request.
J - estimated concentration; concentration is greater than the MDL but less than the RL.
B - possible laboratory blank bias; analye found in the laboratory blank and in the sample.
for the noted analytes were recovered above the upper control limit. This affected the non-detect results.
*1 - LCS/LCSD exceeds allowable Relative percent difference

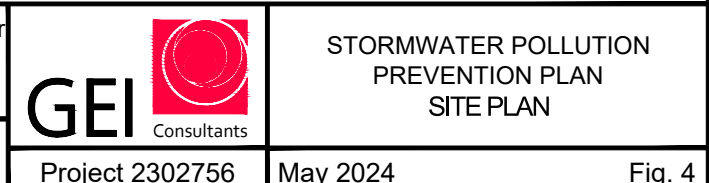
Water to be used for Dust Suppression will be conducted inside of the **Blue shaded Environmental Covenant Area**



NOTE:
1. LOD = LIMITS OF DISTURBANCE.



Stormwater Pollution Prevention Plan (SWPPP) - B Line Sewer Quantum Loophole Frederick, MD
Quantum Maryland Austin, TX



EPA Identification Number		NPDES Permit Number		Facility Name Quantum Frederick		OMB No. 2040-0004 Expires 07/31/2026	
Form 2C NPDES			U.S. Environmental Protection Agency Application for NPDES Permit to Discharge Wastewater EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURE OPERATIONS				
SECTION 1. OUTFALL LOCATION (40 CFR 122.21(G)(1))							
Outfall Location	<u>1.1</u>	Provide information on each of the facility's outfalls in the table below.					
		Outfall Number	Receiving Water Name	Latitude		Longitude	
		QM-259852	Ground surface in EC	Multiple - see map		Multiple - see map	
SECTION 2. LINE DRAWING (40 CFR 122.21(G)(2))							
Line Drawing	<u>2.1</u>	Have you attached a line drawing to this application that shows the water flow through your facility with a water balance? (See instructions for drawing requirements. See Exhibit 2C-1 at end of instructions for example.) ☐ Yes					
SECTION 3. AVERAGE FLOWS AND TREATMENT (40 CFR 122.21(G)(3))							
Average Flows and Treatment	<u>3.1</u>	For each outfall identified under Item 1.1, provide average flow and treatment information. Add additional sheets if necessary.					
		Outfall Number QM-259852					
		Operations Contributing to Flow					
		Operation			Average Flow		
		Quantum Place South EMP-2			mgd		
					mgd		
					mgd		
					mgd		
		Treatment Units					
		Description (include size, flow rate through each treatment unit, retention time, etc.)		Code from Exhibit 2C-2		Final Disposal of Solid or Liquid Wastes Other Than by Discharge	

EPA Identification Number		NPDES Permit Number		Facility Name Quantum Frederick		OMB No. 2040-0004 Expires 07/31/2026			
Average Flows and Treatment Continued	3.1 cont.	**Outfall Number** _____							
		Operations Contributing to Flow							
		Operation			Average Flow				
					mgd				
					mgd				
					mgd				
					mgd				
		Treatment Units							
		Description (include size, flow rate through each treatment unit, retention time, etc.)			Code from Exhibit 2C-2		Final Disposal of Solid or Liquid Wastes Other Than by Discharge		
		Outfall Number _____							
		Operations Contributing to Flow							
		Operation			Average Flow				
					mgd				
					mgd				
					mgd				
					mgd				
		Treatment Units							
		Description (include size, flow rate through each treatment unit, retention time, etc.)			Code from Exhibit 2C-2		Final Disposal of Solid or Liquid Wastes Other Than by Discharge		
		System Users	3.2	Are you applying for an NPDES permit to operate a privately owned treatment works? ☐ Yes ☒ No → SKIP to Section 4.					
			3.3	Have you attached a list that identifies each user of the treatment works? ☐ Yes					

EPA Identification Number		NPDES Permit Number		Facility Name Quantum Frederick		OMB No. 2040-0004 Expires 07/31/2026		
SECTION 4. INTERMITTENT FLOWS (40 CFR 122.21(G)(4))								
Intermittent Flows	4.1	Except for storm runoff, leaks, or spills, are any discharges described in Sections 1 and 3 intermittent or seasonal? ☐ Yes ☒ No → SKIP to Section 5.						
	4.2	Provide information on intermittent or seasonal flows for each applicable outfall. Attach additional pages, if necessary.						
		Outfall Number	Operation (list)	Frequency		Flow Rate		Duration
				Average Days/Week	Average Months/Year	Long-Term Average	Maximum Daily	
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
SECTION 5. PRODUCTION (40 CFR 122.21(G)(5))								
Applicable ELGs	5.1	Do any effluent limitation guidelines (ELGs) promulgated by EPA under Section 304 of the CWA apply to your facility? ☐ Yes ☒ No → SKIP to Section 6.						
	5.2	Provide the following information on applicable ELGs.						
		ELG Category	ELG Subcategory				Regulatory Citation	
Production-Based Limitations	5.3	Are any of the applicable ELGs expressed in terms of production (or other measure of operation)? ☐ Yes ☒ No → SKIP to Section 6.						
	5.4	Provide an actual measure of daily production expressed in terms and units of applicable ELGs.						
		Outfall Number	Operation, Product, or Material			Quantity per Day	Unit of Measure	

EPA Identification Number	NPDES Permit Number	Facility Name Quantum Frederick	OMB No. 2040-0004 Expires 07/31/2026	

	5.5	Are you requesting alternative limits based on an anticipated increase in the actual production during the next permit term? (Consult with your NPDES permitting authority to determine what information needs to be submitted and when.)
		☐ Yes ☐ No

SECTION 6. IMPROVEMENTS (40 CFR 122.21(G)(6))

Upgrades and Improvements	6.1	Are you presently required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application?																						
		☐ Yes ☒ No → SKIP to Item 6.3.																						
	6.2	Briefly identify each applicable project in the table below.																						
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th rowspan="2" style="width: 45%;">Brief Identification and Description of Project</th> <th rowspan="2" style="width: 15%;">Affected Outfalls (list outfall number)</th> <th rowspan="2" style="width: 20%;">Source(s) of Discharge</th> <th colspan="2" style="width: 20%;">Final Compliance Dates</th> </tr> <tr> <th style="width: 10%;">Required</th> <th style="width: 10%;">Projected</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>		Brief Identification and Description of Project	Affected Outfalls (list outfall number)	Source(s) of Discharge	Final Compliance Dates		Required	Projected															
	Brief Identification and Description of Project	Affected Outfalls (list outfall number)				Source(s) of Discharge	Final Compliance Dates																	
Required			Projected																					
6.3	Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? (<i>optional item</i>)																							
	☐ Yes ☐ No ☒ Not applicable																							

SECTION 7. EFFLUENT AND INTAKE CHARACTERISTICS (40 CFR 122.21(G)(7))

Effluent and Intake Characteristics	See the instructions to determine the pollutants and parameters you are required to monitor and, in turn, the tables you must complete. Not all applicants need to complete each table.	
	Table A. Conventional and Non-Conventional Pollutants	
	7.1	Are you requesting a waiver from your NPDES permitting authority for any Table A pollutants for any of your outfalls?
		☐ Yes ☒ No → SKIP to Item 7.3.
	7.2	If yes, indicate the applicable outfalls below or check the appropriate box to indicate that you are requesting a waiver for all outfalls. Attach waiver request and other required information to the application.
		Outfall number _____ Outfall number _____ Outfall number _____ ☐ I am requesting a waiver for some pollutants at all outfalls. ☐ I am requesting a waiver for all pollutants at all outfalls → SKIP to Item 7.4.
	7.3	Have you completed monitoring for all Table A pollutants at each of your outfalls for which a waiver has not been requested and attached the results to this application package?
		☐ Yes
Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants		
7.4	Do any of the facility's processes that contribute wastewater fall into one or more of the primary industry categories listed in Exhibit 2C-3? (See end of instructions for exhibit.)	
	☐ Yes ☒ No → SKIP to Item 7.8.	
7.5	Have you checked "Testing Required" for all toxic metals, cyanide, and total phenols in Section 1 of Table B?	
	☐ Yes	

EPA Identification Number		NPDES Permit Number		Facility Name Quantum Frederick		OMB No. 2040-0004 Expires 07/31/2026		
	7.6	List the applicable primary industry categories and check the boxes indicating the required GC/MS fraction(s) identified in Exhibit 2C-3.						
		Primary Industry Category			Required GC/MS Fraction(s) (check applicable boxes)			
					☐ Volatile	☐ Acid	☐ Base/neutral	☐ Pesticide
					☐ Volatile	☐ Acid	☐ Base/neutral	☐ Pesticide
					☐ Volatile	☐ Acid	☐ Base/neutral	☐ Pesticide
Effluent and Intake Characteristics Continued	7.7	Have you checked "Testing Required" for all required pollutants in Sections 2 through 5 of Table B for each of the GC/MS fractions checked in Item 7.6? ☐ Yes						
	7.8	Have you checked "Believed Present" or "Believed Absent" for all pollutants listed in Sections 1 through 5 of Table B where testing is not required? ☐ Yes						
	7.9	Have you provided (1) quantitative data for those Section 1, Table B, pollutants for which you have indicated testing is required or (2) quantitative data or other required information for those Section 1, Table B, pollutants that you have indicated are "Believed Present" in your discharge? ☐ Yes						
	7.10	Does the applicant qualify for a small business exemption under the criteria specified in the instructions? ☐ Yes → Note that you qualify at the top of Table B, then SKIP to Item 7.12. ☒ No						
	7.11	Have you provided (1) quantitative data for those Sections 2 through 5, Table B, pollutants for which you have determined testing is required or (2) quantitative data or an explanation for those Sections 2 through 5, Table B, pollutants you have indicated are "Believed Present" in your discharge? ☒ Yes						
	Table C. Certain Conventional and Non-Conventional Pollutants							
	7.12	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table C for all outfalls? ☒ Yes						
	7.13	Have you completed Table C by providing quantitative data for those pollutants that are limited either directly or indirectly in an ELG? You must provide quantitative data even if the pollutant is "Believed Absent." ☐ Yes ☒ Not applicable						
	7.14	Have you completed Table C by providing quantitative data or an explanation for those pollutants for which you have indicated "Believed Present"? ☒ Yes						
	Table D. Certain Hazardous Substances and Asbestos							
	7.15	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table D for all outfalls? ☒ Yes						
	7.16	Have you completed Table D by (1) describing the reasons the applicable pollutants are expected to be discharged and (2) providing quantitative data, if available? ☒ Yes ☐ No						
	Table E. 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (2,3,7,8-TCDD)							
7.17	Does the facility use or manufacture one or more of the 2,3,7,8-TCDD congeners listed in the instructions, or do you know or have reason to believe that TCDD is or may be present in the effluent? ☐ Yes → Complete Table E. ☒ No → SKIP to Section 8.							
7.18	Have you completed Table E by reporting <i>qualitative</i> data for TCDD? ☐ Yes							

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SECTION 8. USED OR MANUFACTURED TOXICS (40 CFR 122.21(G)(9))

Used or Manufactured Toxics	8.1	Is any pollutant listed in Table B a substance or a component of a substance used or manufactured at your facility as an intermediate or final product or byproduct? ☐ Yes ☒ No → SKIP to Section 9.		
	8.2	List the pollutants below. Attach additional sheets, if necessary.		
		1.	4.	7.
		2.	5.	8.
		3.	6.	9.

SECTION 9. BIOLOGICAL TOXICITY TESTS (40 CFR 122.21(G)(11))

Biological Toxicity Tests	9.1	Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made within the last three years on (1) any of your discharges or (2) a receiving water in relation to your discharge? ☐ Yes ☒ No → SKIP to Section 10.		
	9.2	Identify the tests and their purposes below.		
		Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?
				☐ Yes ☐ No
				☐ Yes ☐ No
			☐ Yes ☐ No	

SECTION 10. CONTRACT ANALYSES (40 CFR 122.21(G)(12))

Contract Analyses	10.1	Were any of the analyses reported in Section 7 performed by a contract laboratory or consulting firm? ☒ Yes ☐ No → SKIP to Section 11.			
	10.2	Provide information for each contract laboratory or consulting firm below.			
			Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
		Name of laboratory/firm	Eurofins Lancaster Laboratories Environment Testing, LLC		
		Laboratory address	2425 New Holland Pike, Lancaster, PA		
		Phone number	(412) 525-0071		
	Pollutant(s) analyzed	VOCs, SVOCs, GRO/DRO, PCBs, Anions, Metals/Mercury, pH, free cyanide			

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SECTION 11. ADDITIONAL INFORMATION (40 CFR 122.21(G)(13))							
Additional Information	<u>11.1</u>	Has the NPDES permitting authority requested additional information? ☐ Yes ☒ No → SKIP to Section 12.					
	<u>11.2</u>	List the information requested and attach it to this application.					
	1.						4.
	2.						5.
	3.						6.
SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(A) AND (D))							
Checklist and Certification Statement	<u>12.1</u>	In Column 1 below, mark the sections of Form 2C that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to complete all sections or provide attachments.					
		Column 1		Column 2			
	☒	Section 1: Outfall Location		☒ w/ attachments			
	☐	Section 2: Line Drawing		☐ w/ line drawing		☐ w/ additional attachments	
	☐	Section 3: Average Flows and Treatment		☐ w/ attachments		☐ w/ list of each user of privately owned treatment works	
	☐	Section 4: Intermittent Flows		☐ w/ attachments			
	☐	Section 5: Production		☐ w/ attachments			
	☐	Section 6: Improvements		☐ w/ attachments		☐ w/ optional additional sheets describing any additional pollution control plans	
	☒	Section 7: Effluent and Intake Characteristics		☒ w/ request for a waiver and supporting information ☐ w/ small business exemption request ☒ w/ Table A ☒ w/ Table C ☒ w/ Table E		☐ w/ explanation for identical outfalls ☐ w/ other attachments ☒ w/ Table B ☒ w/ Table D ☒ w/ analytical results as an attachment	
	☐	Section 8: Used or Manufactured Toxics		☐ w/ attachments			
	☐	Section 9: Biological Toxicity Tests		☐ w/ attachments			
	☒	Section 10: Contract Analyses		☐ w/ attachments			
	☐	Section 11: Additional Information		☐ w/ attachments			
	☒	Section 12: Checklist and Certification Statement		☐ w/ attachments			

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SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d)) (Continued)

Checklist and Certification Statement	<u>12.2</u>	Provide the following certification. (See instructions to determine the appropriate person to sign the application.)	
		Certification Statement <i>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</i>	
		Name (print or type first and last name) Joshua Mullis	Official title Project Manager
		Signature 	Date signed 6/20/2025

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		Quantum Frederick	QM-259852

TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii))¹

Pollutant	Waiver Requested (if applicable)	Units (specify)	Effluent				Intake (optional)	
			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
☒ Check here if you have applied to your NPDES permitting authority for a waiver for all of the pollutants listed on this table for the noted outfall.								
1. Biochemical oxygen demand (BOD ₅)	☐	Concentration						
		Mass						
2. Chemical oxygen demand (COD)	☐	Concentration						
		Mass						
3. Total organic carbon (TOC)	☐	Concentration						
		Mass						
4. Total suspended solids (TSS)	☐	Concentration						
		Mass						
5. Ammonia (as N)	☐	Concentration						
		Mass						
6. Flow	☐	Rate						
7. Temperature (winter)	☐	°C						
Temperature (summer)	☒	°C	20.0					
pH (minimum)	☒	Standard units	7.9					
pH (maximum)	☒	Standard units	7.9					

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
☐ Check here if you qualify as a small business per the instructions to Form 2C and, therefore, do not need to submit quantitative data for any of the organic toxic pollutants in Sections 2 through 5 of this table. Note, however, that you must still indicate in the appropriate column of this table if you believe any of the pollutants listed are present in your discharge.										
Section 1. Toxic Metals, Cyanide, and Total Phenols										
1.1 Antimony, total (7440-36-0)	☐	☒	☐	Concentration Mass	ug/L	0.36 J				
1.2 Arsenic, total (7440-38-2)	☒	☒	☐	Concentration Mass	ug/L	6.6				
1.3 Beryllium, total (7440-41-7)	☐	☒	☐	Concentration Mass	ug/L	1.2				
1.4 Cadmium, total (7440-43-9)	☒	☐	☒	Concentration Mass	ug/L	< 0.15 U				
1.5 Chromium, total (7440-47-3)	☒	☒	☐	Concentration Mass	ug/L	21				
1.6 Copper, total (7440-50-8)	☐	☒	☐	Concentration Mass	ug/L	22				
1.7 Lead, total (7439-92-1)	☒	☒	☐	Concentration Mass	ug/L	16				
1.8 Mercury, total (7439-97-6)	☐	☐	☒	Concentration Mass	ug/L	< 0.087 U				
1.9 Nickel, total (7440-02-0)	☒	☒	☐	Concentration Mass	ug/L	24				
1.10 Selenium, total (7782-49-2)	☐	☒	☐	Concentration Mass	ug/L	0.60				
1.11 Silver, total (7440-22-4)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
1.12 Thallium, total (7440-28-0)	☐	☒	☐	Concentration ug/L	0.24					
1.13 Zinc, total (7440-66-6)	☐	☒	☐	Concentration ug/L	48					
1.14 Cyanide, total (57-12-5)	☒	☐	☒	Concentration mg/L	< 0.005 U	free cyanide				
1.15 Phenols, total	☐	☐	☒	Concentration Mass						
Section 2. Organic Toxic Pollutants (GC/MS Fraction—Volatile Compounds)										
2.1 Acrolein (107-02-8)	☐	☐	☒	Concentration Mass						
2.2 Acrylonitrile (107-13-1)	☐	☐	☒	Concentration Mass						
2.3 Benzene (71-43-2)	☐	☐	☒	Concentration ug/L	< 0.1 U					
2.4 Bromoform (75-25-2)	☐	☐	☒	Concentration Mass						
2.5 Carbon tetrachloride (56-23-5)	☐	☐	☒	Concentration ug/L	< 0.1 U					
2.6 Chlorobenzene (108-90-7)	☐	☐	☒	Concentration ug/L	< 0.07 U					
2.7 Chlorodibromomethane (124-48-1)	☐	☐	☒	Concentration Mass						
2.8 Chloroethane (75-00-3)	☐	☐	☒	Concentration ug/L	< 0.1 U					

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent							
2.9 2-chloroethylvinyl ether (110-75-8)	☐	☐	☒	Concentration					Long-Term Average Value	Number of Analyses
				Mass						
2.10 Chloroform (67-66-3)	☐	☐	☒	Concentration	ug/L	< 0.09 U				
				Mass						
2.11 Dichlorobromomethane (75-27-4)	☐	☐	☒	Concentration						
				Mass						
2.12 1,1-dichloroethane (75-34-3)	☐	☐	☒	Concentration	ug/L	< 0.1 U				
				Mass						
2.13 1,2-dichloroethane (107-06-2)	☐	☐	☒	Concentration	ug/L	< 0.07 U				
				Mass						
2.14 1,1-dichloroethylene (75-35-4)	☐	☐	☒	Concentration	ug/L	< 0.1 U				
				Mass						
2.15 1,2-dichloropropane (78-87-5)	☐	☐	☒	Concentration	ug/L	< 0.1 U				
				Mass						
2.16 1,3-dichloropropylene (542-75-6)	☐	☐	☒	Concentration						
				Mass						
2.17 Ethylbenzene (100-41-4)	☐	☐	☒	Concentration	ug/L	< 0.08 U				
				Mass						
2.18 Methyl bromide (74-83-9)	☐	☐	☒	Concentration						
				Mass						
2.19 Methyl chloride (74-87-3)	☐	☐	☒	Concentration						
				Mass						
2.20 Methylene chloride (75-09-2)	☐	☐	☒	Concentration	ug/L	< 0.2 U				
				Mass						
2.21 1,1,2,2- tetrachloroethane (79-34-5)	☐	☐	☒	Concentration	ug/L	< 0.1 U				
				Mass						

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
2.22 Tetrachloroethylene (127-18-4)	☒	☐	☒	Concentration Mass	0.20 U					
2.23 Toluene (108-88-3)	☐	☐	☒	Concentration Mass	< 0.08 U					
2.24 1,2-trans-dichloroethylene (156-60-5)	☐	☐	☒	Concentration Mass						
2.25 1,1,1-trichloroethane (71-55-6)	☐	☐	☒	Concentration Mass	< 0.08 U					
2.26 1,1,2-trichloroethane (79-00-5)	☐	☐	☒	Concentration Mass	< 0.08 U					
2.27 Trichloroethylene (79-01-6)	☐	☐	☒	Concentration Mass						
2.28 Vinyl chloride (75-01-4)	☐	☐	☒	Concentration Mass	< 0.1 U					
Section 3. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds)										
3.1 2-chlorophenol (95-57-8)	☐	☐	☒	Concentration Mass						
3.2 2,4-dichlorophenol (120-83-2)	☐	☐	☒	Concentration Mass						
3.3 2,4-dimethylphenol (105-67-9)	☐	☐	☒	Concentration Mass						
3.4 4,6-dinitro-o-cresol (534-52-1)	☐	☐	☒	Concentration Mass						
3.5 2,4-dinitrophenol (51-28-5)	☐	☐	☒	Concentration Mass						

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) ¹										
Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
3.6 2-nitrophenol (88-75-5)	☐	☐	☒	Concentration Mass						
3.7 4-nitrophenol (100-02-7)	☐	☐	☒	Concentration Mass						
3.8 p-chloro-m-cresol (59-50-7)	☐	☐	☒	Concentration Mass						
3.9 Pentachlorophenol (87-86-5)	☐	☐	☒	Concentration Mass						
3.10 Phenol (108-95-2)	☐	☐	☒	Concentration Mass						
3.11 2,4,6-trichlorophenol (88-05-2)	☐	☐	☒	Concentration Mass						
Section 4. Organic Toxic Pollutants (GC/MS Fraction—Base /Neutral Compounds)										
4.1 Acenaphthene (83-32-9)	☒	☐	☒	Concentration Mass	ug/L < 0.011 U					
4.2 Acenaphthylene (208-96-8)	☒	☐	☒	Concentration Mass	ug/L < 0.011 U					
4.3 Anthracene (120-12-7)	☒	☐	☒	Concentration Mass	ug/L < 0.011 U					
4.4 Benzidine (92-87-5)	☐	☐	☒	Concentration Mass						
4.5 Benzo (a) anthracene (56-55-3)	☒	☐	☐	Concentration Mass	ug/L < 0.011 U					
4.6 Benzo (a) pyrene (50-32-8)	☒	☒	☐	Concentration Mass	ug/L 0.02 J					

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.7 3,4-benzofluoranthene (205-99-2)	☐	☐	☒	Concentration Mass						
4.8 Benzo (ghi) perylene (191-24-2)	☐	☐	☒	Concentration Mass	ug/L	< 0.011 U				
4.9 Benzo (k) fluoranthene (207-08-9)	☐	☒	☐	Concentration Mass	ug/L	0.019 J				
4.10 Bis (2-chloroethoxy) methane (111-91-1)	☐	☐	☒	Concentration Mass						
4.11 Bis (2-chloroethyl) ether (111-44-4)	☐	☐	☒	Concentration Mass						
4.12 Bis (2-chloroisopropyl) ether (102-80-1)	☐	☐	☒	Concentration Mass						
4.13 Bis (2-ethylhexyl) phthalate (117-81-7)	☐	☐	☒	Concentration Mass						
4.14 4-bromophenyl phenyl ether (101-55-3)	☐	☐	☒	Concentration Mass						
4.15 Butyl benzyl phthalate (85-68-7)	☐	☐	☒	Concentration Mass						
4.16 2-chloronaphthalene (91-58-7)	☐	☐	☒	Concentration Mass						
4.17 4-chlorophenyl phenyl ether (7005-72-3)	☐	☐	☒	Concentration Mass						
4.18 Chrysene (218-01-9)	☒	☒	☐	Concentration Mass	ug/L	0.041 J				
4.19 Dibenzo (a,h) anthracene (53-70-3)	☐	☐	☒	Concentration Mass	ug/L	< 0.021 U				

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)		Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.20	1,2-dichlorobenzene (95-50-1)	☐	☐	☒	Concentration	ug/L	< 0.07 U					
4.21	1,3-dichlorobenzene (541-73-1)	☐	☐	☒	Concentration	ug/L	< 0.07 U					
4.22	1,4-dichlorobenzene (106-46-7)	☐	☐	☒	Concentration	ug/L	< 0.07 U					
4.23	3,3-dichlorobenzidine (91-94-1)	☐	☐	☒	Concentration							
4.24	Diethyl phthalate (84-66-2)	☐	☐	☒	Concentration							
4.25	Dimethyl phthalate (131-11-3)	☐	☐	☒	Concentration							
4.26	Di-n-butyl phthalate (84-74-2)	☐	☐	☒	Concentration							
4.27	2,4-dinitrotoluene (121-14-2)	☐	☐	☒	Concentration							
4.28	2,6-dinitrotoluene (606-20-2)	☐	☐	☒	Concentration							
4.29	Di-n-octyl phthalate (117-84-0)	☐	☐	☒	Concentration							
4.30	1,2-Diphenylhydrazine (as azobenzene) (122-66-7)	☐	☐	☒	Concentration							
4.31	Fluoranthene (206-44-0)	☐	☒	☐	Concentration	ug/L	0.029 J					
4.32	Fluorene (86-73-7)	☐	☐	☒	Concentration	ug/L	< 0.011 U					

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.33 Hexachlorobenzene (118-74-1)	☐	☐	☒	Concentration Mass						
4.34 Hexachlorobutadiene (87-68-3)	☐	☐	☒	Concentration Mass						
4.35 Hexachlorocyclopentadiene (77-47-4)	☐	☐	☒	Concentration Mass						
4.36 Hexachloroethane (67-72-1)	☐	☐	☒	Concentration Mass						
4.37 Indeno (1,2,3-cd) pyrene (193-39-5)	☐	☐	☒	Concentration Mass	ug/L	< 0.021 U				
4.38 Isophorone (78-59-1)	☐	☐	☒	Concentration Mass						
4.39 Naphthalene (91-20-3)	☒	☐	☒	Concentration Mass	ug/L	< 0.072 U				
4.40 Nitrobenzene (98-95-3)	☐	☐	☒	Concentration Mass						
4.41 N-nitrosodimethylamine (62-75-9)	☐	☐	☒	Concentration Mass						
4.42 N-nitrosodi-n-propylamine (621-64-7)	☐	☐	☒	Concentration Mass						
4.43 N-nitrosodiphenylamine (86-30-6)	☐	☐	☒	Concentration Mass						
4.44 Phenanthrene (85-01-8)	☐	☐	☒	Concentration Mass	ug/L	< 0.032 U				
4.45 Pyrene (129-00-0)	☐	☒	☐	Concentration Mass	ug/L	0.029				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent							
4.46 1,2,4-trichlorobenzene (120-82-1)	☐	☐	☒	Concentration ug/L	Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
Section 5. Organic Toxic Pollutants (GC/MS Fraction—Pesticides)										
5.1 Aldrin (309-00-2)	☐	☐	☒	Concentration Mass						
5.2 α -BHC (319-84-6)	☐	☐	☒	Concentration Mass						
5.3 β -BHC (319-85-7)	☐	☐	☒	Concentration Mass						
5.4 γ -BHC (58-89-9)	☐	☐	☒	Concentration Mass						
5.5 δ -BHC (319-86-8)	☐	☐	☒	Concentration Mass						
5.6 Chlordane (57-74-9)	☐	☐	☒	Concentration Mass						
5.7 4,4'-DDT (50-29-3)	☐	☐	☒	Concentration Mass						
5.8 4,4'-DDE (72-55-9)	☐	☐	☒	Concentration Mass						
5.9 4,4'-DDD (72-54-8)	☐	☐	☒	Concentration Mass						
5.10 Dieldrin (60-57-1)	☐	☐	☒	Concentration Mass						
5.11 α -endosulfan (115-29-7)	☐	☐	☒	Concentration Mass						

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
5.12 β-endosulfan (115-29-7)	☐	☐	☒	Concentration Mass						
5.13 Endosulfan sulfate (1031-07-8)	☐	☐	☒	Concentration Mass						
5.14 Endrin (72-20-8)	☐	☐	☒	Concentration Mass						
5.15 Endrin aldehyde (7421-93-4)	☐	☐	☒	Concentration Mass						
5.16 Heptachlor (76-44-8)	☐	☐	☒	Concentration Mass						
5.17 Heptachlor epoxide (1024-57-3)	☐	☐	☒	Concentration Mass						
5.18 PCB-1242 (53469-21-9)	☒	☐	☒	Concentration Mass	ug/L < 0.008 U					
5.19 PCB-1254 (11097-69-1)	☒	☐	☒	Concentration Mass	ug/L < 0.005 U					
5.20 PCB-1221 (11104-28-2)	☒	☐	☒	Concentration Mass	ug/L < 0.008 U					
5.21 PCB-1232 (11141-16-5)	☒	☐	☒	Concentration Mass	ug/L < 0.008 U					
5.22 PCB-1248 (12672-29-6)	☒	☒	☐	Concentration Mass	0.043					
5.23 PCB-1260 (11096-82-5)	☒	☐	☒	Concentration Mass	ug/L < 0.005 U					
5.24 PCB-1016 (12674-11-2)	☒	☐	☒	Concentration Mass	ug/L < 0.008 U					

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) ¹										
Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
5.25 Toxaphene (8001-35-2)	☐	☐	☒	Concentration Mass						

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

	Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
☐ Check here if you believe all pollutants in Table C to be present in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for each pollutant.										
☐ Check here if you believe all pollutants in Table C to be absent in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for each pollutant.										
1.	Bromide (24959-67-9)	☐	☒	Concentration Mass						
2.	Chlorine, total residual	☐	☒	Concentration Mass						
3.	Color	☐	☒	Concentration Mass						
4.	Fecal coliform	☐	☒	Concentration Mass						
5.	Fluoride (16984-48-8)	☒	☐	Concentration Mass	mg/L	3.9 J				
6	Nitrate-nitrite	☐	☒	Concentration Mass						
7.	Nitrogen, total organic (as N)	☐	☒	Concentration Mass						
8.	Oil and grease	☐	☒	Concentration Mass						
9.	Phosphorus (as P), total (7723-14-0)	☐	☒	Concentration Mass						
10.	Sulfate (as SO ₄) (14808-79-8)	☐	☒	Concentration Mass						
11.	Sulfide (as S)	☐	☒	Concentration Mass						

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
12. Sulfite (as SO ₃) (14265-45-3)	☐	☒	Concentration Mass						
13. Surfactants	☐	☒	Concentration Mass						
14. Aluminum, total (7429-90-5)	☒	☐	Concentration Mass	19000 ug/L					
15. Barium, total (7440-39-3)	☒	☐	Concentration Mass	120 ug/L					
16. Boron, total (7440-42-8)	☐	☒	Concentration Mass						
17. Cobalt, total (7440-48-4)	☒	☐	Concentration Mass	18 ug/L					
18. Iron, total (7439-89-6)	☒	☐	Concentration Mass	26000 ug/L					
19. Magnesium, total (7439-95-4)	☒	☐	Concentration Mass	24000 ug/L					
20. Molybdenum, total (7439-98-7)	☐	☒	Concentration Mass						
21. Manganese, total (7439-96-5)	☒	☐	Concentration Mass	580 ug/L					
22. Tin, total (7440-31-5)	☐	☒	Concentration Mass						
23. Titanium, total (7440-32-6)	☐	☒	Concentration Mass						

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi)) ¹									
Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
24. Radioactivity									
Alpha, total	☐	☒	Concentration Mass						
Beta, total	☐	☒	Concentration Mass						
Radium, total	☐	☒	Concentration Mass						
Radium 226, total	☐	☒	Concentration Mass						

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number	NPDES Permit Number	Facility Name Quantum Frederick	Outfall Number QM-259852	OMB No. 2040-0004 Expires 07/31/2026

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹				
Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
1. Asbestos	☐	☒		
2. Acetaldehyde	☐	☒		
3. Allyl alcohol	☐	☒		
4. Allyl chloride	☐	☒		
5. Amyl acetate	☐	☒		
6. Aniline	☐	☒		
7. Benzotrile	☐	☒		
8. Benzyl chloride	☐	☒		
9. Butyl acetate	☐	☒		
10. Butylamine	☐	☒		
11. Captan	☐	☒		
12. Carbaryl	☐	☒		
13. Carbofuran	☐	☒		
14. Carbon disulfide	☐	☒		
15. Chlorpyrifos	☐	☒		
16. Coumaphos	☐	☒		
17. Cresol	☐	☒		
18. Crotonaldehyde	☐	☒		
19. Cyclohexane	☐	☒		0.1 ug/L U

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹				
Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
20. 2,4-D (2,4-dichlorophenoxyacetic acid)	☐	☒		
21. Diazinon	☐	☒		
22. Dicamba	☐	☒		
23. Dichlobenil	☐	☒		
24. Diclhone	☐	☒		
25. 2,2-dichloropropionic acid	☐	☒		
26. Dichlorvos	☐	☒		
27. Diethyl amine	☐	☒		
28. Dimethyl amine	☐	☒		
29. Dintrobenezene	☐	☒		
30. Diquat	☐	☒		
31. Disulfoton	☐	☒		
32. Diuron	☐	☒		
33. Epichlorohydrin	☐	☒		
34. Ethion	☐	☒		
35. Ethylene diamine	☐	☒		
36. Ethylene dibromide	☐	☒		
37. Formaldehyde	☐	☒		
38. Furfural	☐	☒		

EPA Identification Number	NPDES Permit Number	Facility Name Quantum Frederick	Outfall Number QM-259852	OMB No. 2040-0004 Expires 07/31/2026

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹				
Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
39. Guthion	☐	☒		
40. Isoprene	☐	☒		
41. Isopropanolamine	☐	☒		
42. Kelthane	☐	☒		
43. Kepone	☐	☒		
44. Malathion	☐	☒		
45. Mercaptodimethur	☐	☒		
46. Methoxychlor	☐	☒		
47. Methyl mercaptan	☐	☒		
48. Methyl methacrylate	☐	☒		
49. Methyl parathion	☐	☒		
50. Mevinphos	☐	☒		
51. Mexacarbate	☐	☒		
52. Monoethyl amine	☐	☒		
53. Monomethyl amine	☐	☒		
54. Naled	☐	☒		
55. Naphthenic acid	☐	☒		
56. Nitrotoluene	☐	☒		
57. Parathion	☐	☒		

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
58. Phenolsulfonate	☐	☒		
59. Phosgene	☐	☒		
60. Propargite	☐	☒		
61. Propylene oxide	☐	☒		
62. Pyrethrins	☐	☒		
63. Quinoline	☐	☒		
64. Resorcinol	☐	☒		
65. Strontium	☐	☒		
66. Strychnine	☐	☒		
67. Styrene	☐	☒		< 0.07 ug/L U
68. 2,4,5-T (2,4,5-trichlorophenoxyacetic acid)	☐	☒		
69. TDE (tetrachlorodiphenyl ethane)	☐	☒		
70. 2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic acid]	☐	☒		
71. Trichlorofon	☐	☒		
72. Triethanolamine	☐	☒		
73. Triethylamine	☐	☒		
74. Trimethylamine	☐	☒		
75. Uranium	☐	☐		
76. Vanadium	☐	☒		

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹				
Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
77. Vinyl acetate	☐	☒		
78. Xylene	☐	☒		
79. Xylenol	☐	☒		
80. Zirconium	☐	☒		

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE E. 2,3,7,8 TETRACHLORODIBENZO P DIOXIN (2,3,7,8 TCDD) (40 CFR 122.21(g)(7)(viii))				
Pollutant	TCDD Congeners Used or Manufactured	Presence or Absence (check one)		Results of Screening Procedure
		Believed Present	Believed Absent	
2,3,7,8-TCDD	☐	☐	☒	

EPA Identification Number		NPDES Permit Number		Facility Name Quantum Frederick		OMB No. 2040-0004 Expires 07/31/2026	
Form 2C NPDES			U.S. Environmental Protection Agency Application for NPDES Permit to Discharge Wastewater EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURE OPERATIONS				
SECTION 1. OUTFALL LOCATION (40 CFR 122.21(G)(1))							
Outfall Location	<u>1.1</u>	Provide information on each of the facility's outfalls in the table below.					
		Outfall Number	Receiving Water Name	Latitude		Longitude	
		QM-260714	Ground surface in EC	Multiple - see map		Multiple - see map	
SECTION 2. LINE DRAWING (40 CFR 122.21(G)(2))							
Line Drawing	<u>2.1</u>	Have you attached a line drawing to this application that shows the water flow through your facility with a water balance? (See instructions for drawing requirements. See Exhibit 2C-1 at end of instructions for example.) ☐ Yes					
SECTION 3. AVERAGE FLOWS AND TREATMENT (40 CFR 122.21(G)(3))							
Average Flows and Treatment	<u>3.1</u>	For each outfall identified under Item 1.1, provide average flow and treatment information. Add additional sheets if necessary.					
		Outfall Number QM-260714					
		Operations Contributing to Flow					
		Operation			Average Flow		
		QPS tanks			mgd		
					mgd		
					mgd		
					mgd		
		Treatment Units					
		Description (include size, flow rate through each treatment unit, retention time, etc.)		Code from Exhibit 2C-2		Final Disposal of Solid or Liquid Wastes Other Than by Discharge	

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Average Flows and Treatment Continued	3.1 cont.	**Outfall Number** _____							
		Operations Contributing to Flow							
		Operation			Average Flow				
					mgd				
					mgd				
					mgd				
					mgd				
		Treatment Units							
		Description (include size, flow rate through each treatment unit, retention time, etc.)			Code from Exhibit 2C-2		Final Disposal of Solid or Liquid Wastes Other Than by Discharge		
		Outfall Number _____							
		Operations Contributing to Flow							
		Operation			Average Flow				
					mgd				
					mgd				
					mgd				
					mgd				
		Treatment Units							
		Description (include size, flow rate through each treatment unit, retention time, etc.)			Code from Exhibit 2C-2		Final Disposal of Solid or Liquid Wastes Other Than by Discharge		
		System Users	3.2	Are you applying for an NPDES permit to operate a privately owned treatment works? ☐ Yes ☒ No → SKIP to Section 4.					
			3.3	Have you attached a list that identifies each user of the treatment works? ☐ Yes					

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SECTION 4. INTERMITTENT FLOWS (40 CFR 122.21(G)(4))								
Intermittent Flows	4.1	Except for storm runoff, leaks, or spills, are any discharges described in Sections 1 and 3 intermittent or seasonal? ☐ Yes ☒ No → SKIP to Section 5.						
	4.2	Provide information on intermittent or seasonal flows for each applicable outfall. Attach additional pages, if necessary.						
		Outfall Number	Operation (list)	Frequency		Flow Rate		Duration
				Average Days/Week	Average Months/Year	Long-Term Average	Maximum Daily	
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
SECTION 5. PRODUCTION (40 CFR 122.21(G)(5))								
Applicable ELGs	5.1	Do any effluent limitation guidelines (ELGs) promulgated by EPA under Section 304 of the CWA apply to your facility? ☐ Yes ☒ No → SKIP to Section 6.						
	5.2	Provide the following information on applicable ELGs.						
		ELG Category	ELG Subcategory				Regulatory Citation	
Production-Based Limitations	5.3	Are any of the applicable ELGs expressed in terms of production (or other measure of operation)? ☐ Yes ☒ No → SKIP to Section 6.						
	5.4	Provide an actual measure of daily production expressed in terms and units of applicable ELGs.						
		Outfall Number	Operation, Product, or Material			Quantity per Day	Unit of Measure	

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	5.5	Are you requesting alternative limits based on an anticipated increase in the actual production during the next permit term? (Consult with your NPDES permitting authority to determine what information needs to be submitted and when.)		
		☐ Yes ☐ No		

SECTION 6. IMPROVEMENTS (40 CFR 122.21(G)(6))

Upgrades and Improvements	6.1	Are you presently required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application?			
		☐ Yes ☒ No → SKIP to Item 6.3.			
	6.2	Briefly identify each applicable project in the table below.			
		Brief Identification and Description of Project	Affected Outfalls (list outfall number)	Source(s) of Discharge	Final Compliance Dates
					Required Projected
	6.3	Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? (<i>optional item</i>)			
		☐ Yes ☐ No ☒ Not applicable			

SECTION 7. EFFLUENT AND INTAKE CHARACTERISTICS (40 CFR 122.21(G)(7))

Effluent and Intake Characteristics	See the instructions to determine the pollutants and parameters you are required to monitor and, in turn, the tables you must complete. Not all applicants need to complete each table.			
	Table A. Conventional and Non-Conventional Pollutants			
	7.1	Are you requesting a waiver from your NPDES permitting authority for any Table A pollutants for any of your outfalls?		
		☐ Yes ☒ No → SKIP to Item 7.3.		
	7.2	If yes, indicate the applicable outfalls below or check the appropriate box to indicate that you are requesting a waiver for all outfalls. Attach waiver request and other required information to the application.		
		Outfall number _____ Outfall number _____ Outfall number _____ ☐ I am requesting a waiver for some pollutants at all outfalls. ☐ I am requesting a waiver for all pollutants at all outfalls → SKIP to Item 7.4.		
	7.3	Have you completed monitoring for all Table A pollutants at each of your outfalls for which a waiver has not been requested and attached the results to this application package?		
		☐ Yes		
Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants				
7.4	Do any of the facility's processes that contribute wastewater fall into one or more of the primary industry categories listed in Exhibit 2C-3? (See end of instructions for exhibit.)			
	☐ Yes ☒ No → SKIP to Item 7.8.			
7.5	Have you checked "Testing Required" for all toxic metals, cyanide, and total phenols in Section 1 of Table B?			
	☐ Yes			

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	7.6	List the applicable primary industry categories and check the boxes indicating the required GC/MS fraction(s) identified in Exhibit 2C-3.						
		Primary Industry Category			Required GC/MS Fraction(s) (check applicable boxes)			
					☐ Volatile	☐ Acid	☐ Base/neutral	☐ Pesticide
					☐ Volatile	☐ Acid	☐ Base/neutral	☐ Pesticide
					☐ Volatile	☐ Acid	☐ Base/neutral	☐ Pesticide
Effluent and Intake Characteristics Continued	7.7	Have you checked "Testing Required" for all required pollutants in Sections 2 through 5 of Table B for each of the GC/MS fractions checked in Item 7.6? ☐ Yes						
	7.8	Have you checked "Believed Present" or "Believed Absent" for all pollutants listed in Sections 1 through 5 of Table B where testing is not required? ☐ Yes						
	7.9	Have you provided (1) quantitative data for those Section 1, Table B, pollutants for which you have indicated testing is required or (2) quantitative data or other required information for those Section 1, Table B, pollutants that you have indicated are "Believed Present" in your discharge? ☐ Yes						
	7.10	Does the applicant qualify for a small business exemption under the criteria specified in the instructions? ☐ Yes → Note that you qualify at the top of Table B, then SKIP to Item 7.12. ☒ No						
	7.11	Have you provided (1) quantitative data for those Sections 2 through 5, Table B, pollutants for which you have determined testing is required or (2) quantitative data or an explanation for those Sections 2 through 5, Table B, pollutants you have indicated are "Believed Present" in your discharge? ☒ Yes						
	Table C. Certain Conventional and Non-Conventional Pollutants							
	7.12	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table C for all outfalls? ☒ Yes						
	7.13	Have you completed Table C by providing quantitative data for those pollutants that are limited either directly or indirectly in an ELG? You must provide quantitative data even if the pollutant is "Believed Absent." ☐ Yes ☒ Not applicable						
	7.14	Have you completed Table C by providing quantitative data or an explanation for those pollutants for which you have indicated "Believed Present"? ☒ Yes						
	Table D. Certain Hazardous Substances and Asbestos							
	7.15	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table D for all outfalls? ☒ Yes						
	7.16	Have you completed Table D by (1) describing the reasons the applicable pollutants are expected to be discharged and (2) providing quantitative data, if available? ☒ Yes ☐ No						
	Table E. 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (2,3,7,8-TCDD)							
7.17	Does the facility use or manufacture one or more of the 2,3,7,8-TCDD congeners listed in the instructions, or do you know or have reason to believe that TCDD is or may be present in the effluent? ☐ Yes → Complete Table E. ☒ No → SKIP to Section 8.							
7.18	Have you completed Table E by reporting <i>qualitative</i> data for TCDD? ☐ Yes							

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SECTION 8. USED OR MANUFACTURED TOXICS (40 CFR 122.21(G)(9))

Used or Manufactured Toxics	8.1	Is any pollutant listed in Table B a substance or a component of a substance used or manufactured at your facility as an intermediate or final product or byproduct? ☐ Yes ☒ No → SKIP to Section 9.		
	8.2	List the pollutants below. Attach additional sheets, if necessary.		
	1.	4.	7.	
	2.	5.	8.	
	3.	6.	9.	

SECTION 9. BIOLOGICAL TOXICITY TESTS (40 CFR 122.21(G)(11))

Biological Toxicity Tests	9.1	Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made within the last three years on (1) any of your discharges or (2) a receiving water in relation to your discharge? ☐ Yes ☒ No → SKIP to Section 10.			
	9.2	Identify the tests and their purposes below.			
		Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?	Date Submitted
				☐ Yes ☐ No	
				☐ Yes ☐ No	
			☐ Yes ☐ No		

SECTION 10. CONTRACT ANALYSES (40 CFR 122.21(G)(12))

Contract Analyses	10.1	Were any of the analyses reported in Section 7 performed by a contract laboratory or consulting firm? ☒ Yes ☐ No → SKIP to Section 11.		
	10.2	Provide information for each contract laboratory or consulting firm below.		
		Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
	Name of laboratory/firm	Eurofins Lancaster Laboratories Environment Testing, LLC		
	Laboratory address	2425 New Holland Pike, Lancaster, PA		
	Phone number	(412) 525-0071		
	Pollutant(s) analyzed	VOCs, SVOCs, GRO/DRO, PCBs, Anions, Metals/Mercury, pH, free cyanide		

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SECTION 11. ADDITIONAL INFORMATION (40 CFR 122.21(G)(13))							
Additional Information	<u>11.1</u>	Has the NPDES permitting authority requested additional information? ☐ Yes ☒ No → SKIP to Section 12.					
	<u>11.2</u>	List the information requested and attach it to this application.					
	1.						4.
	2.						5.
	3.						6.
SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(A) AND (D))							
Checklist and Certification Statement	<u>12.1</u>	In Column 1 below, mark the sections of Form 2C that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to complete all sections or provide attachments.					
		Column 1		Column 2			
	☒	Section 1: Outfall Location		☒ w/ attachments			
	☐	Section 2: Line Drawing		☐ w/ line drawing		☐ w/ additional attachments	
	☐	Section 3: Average Flows and Treatment		☐ w/ attachments		☐ w/ list of each user of privately owned treatment works	
	☐	Section 4: Intermittent Flows		☐ w/ attachments			
	☐	Section 5: Production		☐ w/ attachments			
	☐	Section 6: Improvements		☐ w/ attachments		☐ w/ optional additional sheets describing any additional pollution control plans	
	☒	Section 7: Effluent and Intake Characteristics		☒ w/ request for a waiver and supporting information ☐ w/ small business exemption request ☒ w/ Table A ☒ w/ Table C ☒ w/ Table E		☐ w/ explanation for identical outfalls ☐ w/ other attachments ☒ w/ Table B ☒ w/ Table D ☒ w/ analytical results as an attachment	
	☐	Section 8: Used or Manufactured Toxics		☐ w/ attachments			
	☐	Section 9: Biological Toxicity Tests		☐ w/ attachments			
	☒	Section 10: Contract Analyses		☐ w/ attachments			
	☐	Section 11: Additional Information		☐ w/ attachments			
	☒	Section 12: Checklist and Certification Statement		☐ w/ attachments			

EPA Identification Number	NPDES Permit Number	Facility Name
		Quantum Frederick

OMB No. 2040-0004
Expires 07/31/2026

SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d)) (Continued)

Checklist and Certification Statement	12.2	Provide the following certification. (See instructions to determine the appropriate person to sign the application.)	
		Certification Statement <i>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</i>	
		Name (print or type first and last name)	Official title
		Joshua Mullis	Project Manager
		Signature	Date signed
			6/20/2025

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
		Quantum Frederick	QM-260714

TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii))¹

TABLE 1. CONVENTIONAL POLLUTANT MONITORING AND REPORTING REQUIREMENTS (18 OF 18) (10/1/2017)									
Pollutant	Waiver Requested (if applicable)	Units (specify)	Effluent				Intake (optional)		
			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses	
☒	Check here if you have applied to your NPDES permitting authority for a waiver for all of the pollutants listed on this table for the noted outfall.								
1. Biochemical oxygen demand (BOD ₅)	☐	Concentration							
		Mass							
2. Chemical oxygen demand (COD)	☐	Concentration							
		Mass							
3. Total organic carbon (TOC)	☐	Concentration							
		Mass							
4. Total suspended solids (TSS)	☐	Concentration							
		Mass							
5. Ammonia (as N)	☐	Concentration							
		Mass							
6. Flow	☐	Rate							
Temperature (winter)	☐	°C							
Temperature (summer)	☒	°C	21.3						
pH (minimum)	☒	Standard units	8.0						
pH (maximum)	☒	Standard units	8.0						

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
☐ Check here if you qualify as a small business per the instructions to Form 2C and, therefore, do not need to submit quantitative data for any of the organic toxic pollutants in Sections 2 through 5 of this table. Note, however, that you must still indicate in the appropriate column of this table if you believe any of the pollutants listed are present in your discharge.										
Section 1. Toxic Metals, Cyanide, and Total Phenols										
1.1 Antimony, total (7440-36-0)	☐	☒	☐	Concentration Mass	ug/L 0.23 J					
1.2 Arsenic, total (7440-38-2)	☐	☐	☒	Concentration Mass	ug/L < 0.68 U					
1.3 Beryllium, total (7440-41-7)	☐	☐	☒	Concentration Mass	ug/L < 0.12 U					
1.4 Cadmium, total (7440-43-9)	☒	☐	☒	Concentration Mass	ug/L < 0.15 U					
1.5 Chromium, total (7440-47-3)	☐	☐	☒	Concentration Mass	ug/L < 0.55 U					
1.6 Copper, total (7440-50-8)	☐	☐	☒	Concentration Mass	ug/L < 0.85 U					
1.7 Lead, total (7439-92-1)	☒	☐	☒	Concentration Mass	ug/L < 0.12 U					
1.8 Mercury, total (7439-97-6)	☐	☐	☒	Concentration Mass	ug/L < 0.087 U					
1.9 Nickel, total (7440-02-0)	☐	☒	☐	Concentration Mass	ug/L 2.2					
1.10 Selenium, total (7782-49-2)	☐	☒	☐	Concentration Mass	ug/L 0.63 J					
1.11 Silver, total (7440-22-4)	☐	☒	☐	Concentration Mass	ug/L 0.23 J					

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
1.12 Thallium, total (7440-28-0)	☐	☐	☒	Concentration Mass	ug/L	< 0.13 U				
1.13 Zinc, total (7440-66-6)	☐	☐	☒	Concentration Mass	ug/L	< 4.0 U				
1.14 Cyanide, total (57-12-5)	☒	☐	☒	Concentration Mass	mg/L	< 0.005 U free cyanide				
1.15 Phenols, total	☐	☐	☒	Concentration Mass						
Section 2. Organic Toxic Pollutants (GC/MS Fraction—Volatile Compounds)										
2.1 Acrolein (107-02-8)	☐	☐	☒	Concentration Mass						
2.2 Acrylonitrile (107-13-1)	☐	☐	☒	Concentration Mass						
2.3 Benzene (71-43-2)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				
2.4 Bromoform (75-25-2)	☐	☐	☒	Concentration Mass						
2.5 Carbon tetrachloride (56-23-5)	☐	☐	☐	Concentration Mass	ug/L	< 0.1 U				
2.6 Chlorobenzene (108-90-7)	☐	☐	☒	Concentration Mass	ug/L	< 0.07 U				
2.7 Chlorodibromomethane (124-48-1)	☐	☐	☒	Concentration Mass						
2.8 Chloroethane (75-00-3)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number	OMB No. 2040-0004 Expires 07/31/2026
		Quantum Frederick	QM-260714	

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
2.9 2-chloroethylvinyl ether (110-75-8)	☐	☐	☒	Concentration Mass						
2.10 Chloroform (67-66-3)	☐	☐	☒	Concentration Mass	ug/L	< 0.09 U				
2.11 Dichlorobromomethane (75-27-4)	☐	☐	☒	Concentration Mass						
2.12 1,1-dichloroethane (75-34-3)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				
2.13 1,2-dichloroethane (107-06-2)	☐	☐	☒	Concentration Mass	ug/L	< 0.07 U				
2.14 1,1-dichloroethylene (75-35-4)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				
2.15 1,2-dichloropropane (78-87-5)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				
2.16 1,3-dichloropropylene (542-75-6)	☐	☐	☒	Concentration Mass						
2.17 Ethylbenzene (100-41-4)	☐	☐	☒	Concentration Mass	ug/L	< 0.08 U				
2.18 Methyl bromide (74-83-9)	☐	☐	☒	Concentration Mass						
2.19 Methyl chloride (74-87-3)	☐	☐	☒	Concentration Mass						
2.20 Methylene chloride (75-09-2)	☐	☐	☒	Concentration Mass	ug/L	< 0.2 U				
2.21 1,1,2,2- tetrachloroethane (79-34-5)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
2.22 Tetrachloroethylene (127-18-4)	☐	☐	☒	Concentration Mass	< 0.20 U					
2.23 Toluene (108-88-3)	☐	☐	☒	Concentration Mass	< 0.08 U					
2.24 1,2-trans-dichloroethylene (156-60-5)	☐	☐	☒	Concentration Mass						
2.25 1,1,1-trichloroethane (71-55-6)	☐	☐	☒	Concentration Mass	< 0.08 U					
2.26 1,1,2-trichloroethane (79-00-5)	☐	☐	☒	Concentration Mass	< 0.08 U					
2.27 Trichloroethylene (79-01-6)	☐	☐	☒	Concentration Mass						
2.28 Vinyl chloride (75-01-4)	☐	☐	☒	Concentration Mass	< 0.02 U					

Section 3. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds)

3.1 2-chlorophenol (95-57-8)	☐	☐	☒	Concentration Mass						
3.2 2,4-dichlorophenol (120-83-2)	☐	☐	☒	Concentration Mass						
3.3 2,4-dimethylphenol (105-67-9)	☐	☐	☒	Concentration Mass						
3.4 4,6-dinitro-o-cresol (534-52-1)	☐	☐	☒	Concentration Mass						
3.5 2,4-dinitrophenol (51-28-5)	☐	☐	☒	Concentration Mass						

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
3.6 2-nitrophenol (88-75-5)	☐	☐	☒	Concentration Mass						
3.7 4-nitrophenol (100-02-7)	☐	☐	☒	Concentration Mass						
3.8 p-chloro-m-cresol (59-50-7)	☐	☐	☒	Concentration Mass						
3.9 Pentachlorophenol (87-86-5)	☐	☐	☒	Concentration Mass						
3.10 Phenol (108-95-2)	☐	☐	☒	Concentration Mass						
3.11 2,4,6-trichlorophenol (88-05-2)	☐	☐	☒	Concentration Mass						

Section 4. Organic Toxic Pollutants (GC/MS Fraction—Base /Neutral Compounds)

4.1 Acenaphthene (83-32-9)	☒	☐	☒	Concentration Mass	ug/L	< 0.011 U				
4.2 Acenaphthylene (208-96-8)	☒	☐	☒	Concentration Mass	ug/L	< 0.011 U				
4.3 Anthracene (120-12-7)	☒	☐	☒	Concentration Mass	ug/L	< 0.011 U				
4.4 Benzidine (92-87-5)	☐	☐	☒	Concentration Mass						
4.5 Benzo (a) anthracene (56-55-3)	☒	☐	☒	Concentration Mass	ug/L	< 0.011 U				
4.6 Benzo (a) pyrene (50-32-8)	☒	☐	☒	Concentration Mass	ug/L	< 0.011 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.7 3,4-benzofluoranthene (205-99-2)	☐	☐	☒	Concentration Mass						
4.8 Benzo (ghi) perylene (191-24-2)	☐	☐	☒	Concentration Mass	ug/L	< 0.011 U				
4.9 Benzo (k) fluoranthene (207-08-9)	☐	☐	☒	Concentration Mass	ug/L	< 0.011 U				
4.10 Bis (2-chloroethoxy) methane (111-91-1)	☐	☐	☒	Concentration Mass						
4.11 Bis (2-chloroethyl) ether (111-44-4)	☐	☐	☒	Concentration Mass						
4.12 Bis (2-chloroisopropyl) ether (102-80-1)	☐	☐	☒	Concentration Mass						
4.13 Bis (2-ethylhexyl) phthalate (117-81-7)	☐	☐	☒	Concentration Mass						
4.14 4-bromophenyl phenyl ether (101-55-3)	☐	☐	☒	Concentration Mass						
4.15 Butyl benzyl phthalate (85-68-7)	☐	☐	☒	Concentration Mass						
4.16 2-chloronaphthalene (91-58-7)	☐	☐	☒	Concentration Mass						
4.17 4-chlorophenyl phenyl ether (7005-72-3)	☐	☐	☒	Concentration Mass						
4.18 Chrysene (218-01-9)	☐	☐	☒	Concentration Mass	ug/L	< 0.027 U				
4.19 Dibenzo (a,h) anthracene (53-70-3)	☐	☐	☒	Concentration Mass	ug/L	< 0.022 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)		Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.20	1,2-dichlorobenzene (95-50-1)	☐	☐	☒	Concentration	ug/L	< 0.07 U					
					Mass							
4.21	1,3-dichlorobenzene (541-73-1)	☐	☐	☒	Concentration	ug/L	< 0.07 U					
					Mass							
4.22	1,4-dichlorobenzene (106-46-7)	☐	☐	☒	Concentration	ug/L	< 0.07 U					
					Mass							
4.23	3,3-dichlorobenzidine (91-94-1)	☐	☐	☒	Concentration							
					Mass							
4.24	Diethyl phthalate (84-66-2)	☐	☐	☒	Concentration							
					Mass							
4.25	Dimethyl phthalate (131-11-3)	☐	☐	☒	Concentration							
					Mass							
4.26	Di-n-butyl phthalate (84-74-2)	☐	☐	☒	Concentration							
					Mass							
4.27	2,4-dinitrotoluene (121-14-2)	☐	☐	☒	Concentration							
					Mass							
4.28	2,6-dinitrotoluene (606-20-2)	☐	☐	☒	Concentration							
					Mass							
4.29	Di-n-octyl phthalate (117-84-0)	☐	☐	☒	Concentration							
					Mass							
4.30	1,2-Diphenylhydrazine (as azobenzene) (122-66-7)	☐	☐	☒	Concentration							
					Mass							
4.31	Fluoranthene (206-44-0)	☐	☐	☒	Concentration	ug/L	< 0.025 U					
					Mass							
4.32	Fluorene (86-73-7)	☐	☐	☒	Concentration	ug/L	< 0.011 U					
					Mass							

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number	OMB No. 2040-0004 Expires 07/31/2026
		Quantum Frederick	QM-260714	

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.33 Hexachlorobenzene (118-74-1)	☐	☐	☒	Concentration Mass						
4.34 Hexachlorobutadiene (87-68-3)	☐	☐	☒	Concentration Mass						
4.35 Hexachlorocyclopentadiene (77-47-4)	☐	☐	☒	Concentration Mass						
4.36 Hexachloroethane (67-72-1)	☐	☐	☒	Concentration Mass						
4.37 Indeno (1,2,3-cd) pyrene (193-39-5)	☐	☐	☒	Concentration Mass	ug/L	< 0.022 U				
4.38 Isophorone (78-59-1)	☐	☐	☒	Concentration Mass						
4.39 Naphthalene (91-20-3)	☒	☐	☒	Concentration Mass	ug/L	< 0.074 U				
4.40 Nitrobenzene (98-95-3)	☐	☐	☒	Concentration Mass						
4.41 N-nitrosodimethylamine (62-75-9)	☐	☐	☒	Concentration Mass						
4.42 N-nitrosodi-n-propylamine (621-64-7)	☐	☐	☒	Concentration Mass						
4.43 N-nitrosodiphenylamine (86-30-6)	☐	☐	☒	Concentration Mass						
4.44 Phenanthrene (85-01-8)	☐	☐	☒	Concentration Mass	ug/L	< 0.033 U				
4.45 Pyrene (129-00-0)	☐	☐	☒	Concentration Mass	ug/L	< 0.023 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent							
4.46 1,2,4-trichlorobenzene (120-82-1)	☐	☐	☒	Concentration Mass	Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
Section 5. Organic Toxic Pollutants (GC/MS Fraction—Pesticides)										
5.1 Aldrin (309-00-2)	☐	☐	☒	Concentration Mass						
5.2 α -BHC (319-84-6)	☐	☐	☒	Concentration Mass						
5.3 β -BHC (319-85-7)	☐	☐	☒	Concentration Mass						
5.4 γ -BHC (58-89-9)	☐	☐	☒	Concentration Mass						
5.5 δ -BHC (319-86-8)	☐	☐	☒	Concentration Mass						
5.6 Chlordane (57-74-9)	☐	☐	☒	Concentration Mass						
5.7 4,4'-DDT (50-29-3)	☐	☐	☒	Concentration Mass						
5.8 4,4'-DDE (72-55-9)	☐	☐	☒	Concentration Mass						
5.9 4,4'-DDD (72-54-8)	☐	☐	☒	Concentration Mass						
5.10 Dieldrin (60-57-1)	☐	☐	☒	Concentration Mass						
5.11 α -endosulfan (115-29-7)	☐	☐	☒	Concentration Mass						

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
5.12 β-endosulfan (115-29-7)	☐	☐	☒	Concentration Mass						
5.13 Endosulfan sulfate (1031-07-8)	☐	☐	☒	Concentration Mass						
5.14 Endrin (72-20-8)	☐	☐	☒	Concentration Mass						
5.15 Endrin aldehyde (7421-93-4)	☐	☐	☒	Concentration Mass						
5.16 Heptachlor (76-44-8)	☐	☐	☒	Concentration Mass						
5.17 Heptachlor epoxide (1024-57-3)	☐	☐	☒	Concentration Mass						
5.18 PCB-1242 (53469-21-9)	☒	☐	☒	Concentration Mass	ug/L < 0.008 U					
5.19 PCB-1254 (11097-69-1)	☒	☐	☒	Concentration Mass	ug/L < 0.005 U					
5.20 PCB-1221 (11104-28-2)	☒	☐	☒	Concentration Mass	ug/L < 0.008 U					
5.21 PCB-1232 (11141-16-5)	☒	☐	☒	Concentration Mass	ug/L < 0.008 U					
5.22 PCB-1248 (12672-29-6)	☒	☐	☒	Concentration Mass	ug/L < 0.008 U					
5.23 PCB-1260 (11096-82-5)	☒	☐	☒	Concentration Mass	ug/L < 0.005 U					
5.24 PCB-1016 (12674-11-2)	☒	☐	☒	Concentration Mass	ug/L < 0.008 U					

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) ¹										
Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
5.25 Toxaphene (8001-35-2)	☐	☐	☒	Concentration						
				Mass						

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
☐ Check here if you believe all pollutants in Table C to be present in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for each pollutant.									
☐ Check here if you believe all pollutants in Table C to be absent in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for each pollutant.									
1. Bromide (24959-67-9)	☐	☒	Concentration Mass						
2. Chlorine, total residual	☐	☒	Concentration Mass						
3. Color	☐	☒	Concentration Mass						
4. Fecal coliform	☐	☒	Concentration Mass						
5. Fluoride (16984-48-8)	☒	☐	Concentration Mass	mg/L	2.9				
6 Nitrate-nitrite	☐	☒	Concentration Mass						
7. Nitrogen, total organic (as N)	☐	☒	Concentration Mass						
8. Oil and grease	☐	☒	Concentration Mass						
9. Phosphorus (as P), total (7723-14-0)	☐	☒	Concentration Mass						
10. Sulfate (as SO ₄) (14808-79-8)	☐	☒	Concentration Mass						
11. Sulfide (as S)	☐	☒	Concentration Mass						

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
12. Sulfite (as SO ₃) (14265-45-3)	☐	☒	Concentration Mass						
13. Surfactants	☐	☒	Concentration Mass						
14. Aluminum, total (7429-90-5)	☒	☐	Concentration Mass	28					
15. Barium, total (7440-39-3)	☒	☐	Concentration Mass	24					
16. Boron, total (7440-42-8)	☐	☒	Concentration Mass						
17. Cobalt, total (7440-48-4)	☒	☐	Concentration Mass	0.79					
18. Iron, total (7439-89-6)	☒	☐	Concentration Mass	700					
19. Magnesium, total (7439-95-4)	☒	☐	Concentration Mass	16000					
20. Molybdenum, total (7439-98-7)	☐	☒	Concentration Mass						
21. Manganese, total (7439-96-5)	☒	☐	Concentration Mass	170					
22. Tin, total (7440-31-5)	☐	☒	Concentration Mass						
23. Titanium, total (7440-32-6)	☐	☒	Concentration Mass						

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
24. Radioactivity									
Alpha, total	☐	☒	Concentration Mass						
Beta, total	☐	☒	Concentration Mass						
Radium, total	☐	☒	Concentration Mass						
Radium 226, total	☐	☒	Concentration Mass						

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number	NPDES Permit Number	Facility Name Quantum Frederick	Outfall Number QM-260714	OMB No. 2040-0004 Expires 07/31/2026

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹				
Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
1. Asbestos	☐	☒		
2. Acetaldehyde	☐	☒		
3. Allyl alcohol	☐	☒		
4. Allyl chloride	☐	☒		
5. Amyl acetate	☐	☒		
6. Aniline	☐	☒		
7. Benzotrile	☐	☒		
8. Benzyl chloride	☐	☒		
9. Butyl acetate	☐	☒		
10. Butylamine	☐	☒		
11. Captan	☐	☒		
12. Carbaryl	☐	☒		
13. Carbofuran	☐	☒		
14. Carbon disulfide	☐	☒		
15. Chlorpyrifos	☐	☒		
16. Coumaphos	☐	☒		
17. Cresol	☐	☒		
18. Crotonaldehyde	☐	☒		
19. Cyclohexane	☐	☒		0.1 ug/L U

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹				
Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
20. 2,4-D (2,4-dichlorophenoxyacetic acid)	☐	☒		
21. Diazinon	☐	☒		
22. Dicamba	☐	☒		
23. Dichlobenil	☐	☒		
24. Diclhone	☐	☒		
25. 2,2-dichloropropionic acid	☐	☒		
26. Dichlorvos	☐	☒		
27. Diethyl amine	☐	☒		
28. Dimethyl amine	☐	☒		
29. Dintrobenezene	☐	☒		
30. Diquat	☐	☒		
31. Disulfoton	☐	☒		
32. Diuron	☐	☒		
33. Epichlorohydrin	☐	☒		
34. Ethion	☐	☒		
35. Ethylene diamine	☐	☒		
36. Ethylene dibromide	☐	☒		
37. Formaldehyde	☐	☒		
38. Furfural	☐	☒		

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
39. Guthion	☐	☒		
40. Isoprene	☐	☒		
41. Isopropanolamine	☐	☒		
42. Kelthane	☐	☒		
43. Kepone	☐	☒		
44. Malathion	☐	☒		
45. Mercaptodimethur	☐	☒		
46. Methoxychlor	☐	☒		
47. Methyl mercaptan	☐	☒		
48. Methyl methacrylate	☐	☒		
49. Methyl parathion	☐	☒		
50. Mevinphos	☐	☒		
51. Mexacarbate	☐	☒		
52. Monoethyl amine	☐	☒		
53. Monomethyl amine	☐	☒		
54. Naled	☐	☒		
55. Naphthenic acid	☐	☒		
56. Nitrotoluene	☐	☒		
57. Parathion	☐	☒		

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
58. Phenolsulfonate	☐	☒		
59. Phosgene	☐	☒		
60. Propargite	☐	☒		
61. Propylene oxide	☐	☒		
62. Pyrethrins	☐	☒		
63. Quinoline	☐	☒		
64. Resorcinol	☐	☒		
65. Strontium	☐	☒		
66. Strychnine	☐	☒		
67. Styrene	☐	☒		< 0.07 ug/L U
68. 2,4,5-T (2,4,5-trichlorophenoxyacetic acid)	☐	☒		
69. TDE (tetrachlorodiphenyl ethane)	☐	☒		
70. 2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic acid]	☐	☒		
71. Trichlorofon	☐	☒		
72. Triethanolamine	☐	☒		
73. Triethylamine	☐	☒		
74. Trimethylamine	☐	☒		
75. Uranium	☐	☐		
76. Vanadium	☐	☒		

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹				
Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
77. Vinyl acetate	☐	☒		
78. Xylene	☐	☒		
79. Xylenol	☐	☒		
80. Zirconium	☐	☒		

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE E. 2,3,7,8 TETRACHLORODIBENZO P DIOXIN (2,3,7,8 TCDD) (40 CFR 122.21(g)(7)(viii))				
Pollutant	TCDD Congeners Used or Manufactured	Presence or Absence (check one)		Results of Screening Procedure
		Believed Present	Believed Absent	
2,3,7,8-TCDD	☐	☐	☒	

EPA Identification Number		NPDES Permit Number		Facility Name Quantum Frederick		OMB No. 2040-0004 Expires 07/31/2026	
Form 2C NPDES			U.S. Environmental Protection Agency Application for NPDES Permit to Discharge Wastewater EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURE OPERATIONS				
SECTION 1. OUTFALL LOCATION (40 CFR 122.21(G)(1))							
Outfall Location	<u>1.1</u>	Provide information on each of the facility's outfalls in the table below.					
		Outfall Number	Receiving Water Name	Latitude		Longitude	
		QM-251186	Ground surface in EC	Multiple - see map		Multiple - see map	
SECTION 2. LINE DRAWING (40 CFR 122.21(G)(2))							
Line Drawing	<u>2.1</u>	Have you attached a line drawing to this application that shows the water flow through your facility with a water balance? (See instructions for drawing requirements. See Exhibit 2C-1 at end of instructions for example.) ☐ Yes					
SECTION 3. AVERAGE FLOWS AND TREATMENT (40 CFR 122.21(G)(3))							
Average Flows and Treatment	<u>3.1</u>	For each outfall identified under Item 1.1, provide average flow and treatment information. Add additional sheets if necessary.					
		Outfall Number QM-251186					
		Operations Contributing to Flow					
		Operation			Average Flow		
		Quantum Place South EMP-2			mgd		
					mgd		
					mgd		
					mgd		
		Treatment Units					
		Description (include size, flow rate through each treatment unit, retention time, etc.)		Code from Exhibit 2C-2		Final Disposal of Solid or Liquid Wastes Other Than by Discharge	

EPA Identification Number		NPDES Permit Number		Facility Name Quantum Frederick		OMB No. 2040-0004 Expires 07/31/2026			
Average Flows and Treatment Continued	3.1 cont.	**Outfall Number** _____							
		Operations Contributing to Flow							
		Operation			Average Flow				
					mgd				
					mgd				
					mgd				
					mgd				
		Treatment Units							
		Description (include size, flow rate through each treatment unit, retention time, etc.)			Code from Exhibit 2C-2		Final Disposal of Solid or Liquid Wastes Other Than by Discharge		
		Outfall Number _____							
		Operations Contributing to Flow							
		Operation			Average Flow				
					mgd				
					mgd				
					mgd				
					mgd				
		Treatment Units							
		Description (include size, flow rate through each treatment unit, retention time, etc.)			Code from Exhibit 2C-2		Final Disposal of Solid or Liquid Wastes Other Than by Discharge		
		System Users	3.2	Are you applying for an NPDES permit to operate a privately owned treatment works? ☐ Yes ☒ No → SKIP to Section 4.					
			3.3	Have you attached a list that identifies each user of the treatment works? ☐ Yes					

EPA Identification Number		NPDES Permit Number		Facility Name Quantum Frederick		OMB No. 2040-0004 Expires 07/31/2026		
SECTION 4. INTERMITTENT FLOWS (40 CFR 122.21(G)(4))								
Intermittent Flows	4.1	Except for storm runoff, leaks, or spills, are any discharges described in Sections 1 and 3 intermittent or seasonal? ☐ Yes ☒ No → SKIP to Section 5.						
	4.2	Provide information on intermittent or seasonal flows for each applicable outfall. Attach additional pages, if necessary.						
		Outfall Number	Operation (list)	Frequency		Flow Rate		Duration
				Average Days/Week	Average Months/Year	Long-Term Average	Maximum Daily	
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
SECTION 5. PRODUCTION (40 CFR 122.21(G)(5))								
Applicable ELGs	5.1	Do any effluent limitation guidelines (ELGs) promulgated by EPA under Section 304 of the CWA apply to your facility? ☐ Yes ☒ No → SKIP to Section 6.						
	5.2	Provide the following information on applicable ELGs.						
		ELG Category	ELG Subcategory				Regulatory Citation	
Production-Based Limitations	5.3	Are any of the applicable ELGs expressed in terms of production (or other measure of operation)? ☐ Yes ☒ No → SKIP to Section 6.						
	5.4	Provide an actual measure of daily production expressed in terms and units of applicable ELGs.						
		Outfall Number	Operation, Product, or Material			Quantity per Day	Unit of Measure	

EPA Identification Number	NPDES Permit Number	Facility Name Quantum Frederick	OMB No. 2040-0004 Expires 07/31/2026	

	5.5	Are you requesting alternative limits based on an anticipated increase in the actual production during the next permit term? (Consult with your NPDES permitting authority to determine what information needs to be submitted and when.)
		☐ Yes ☐ No

SECTION 6. IMPROVEMENTS (40 CFR 122.21(G)(6))

Upgrades and Improvements	6.1	Are you presently required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application?																									
		☐ Yes ☒ No → SKIP to Item 6.3.																									
	6.2	Briefly identify each applicable project in the table below.																									
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 45%;">Brief Identification and Description of Project</th> <th style="width: 15%;">Affected Outfalls (list outfall number)</th> <th style="width: 20%;">Source(s) of Discharge</th> <th colspan="2" style="width: 20%;">Final Compliance Dates</th> </tr> <tr> <th></th> <th></th> <th></th> <th style="width: 10%;">Required</th> <th style="width: 10%;">Projected</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>		Brief Identification and Description of Project	Affected Outfalls (list outfall number)	Source(s) of Discharge	Final Compliance Dates					Required	Projected															
	Brief Identification and Description of Project	Affected Outfalls (list outfall number)	Source(s) of Discharge	Final Compliance Dates																							
				Required	Projected																						
6.3	Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? (<i>optional item</i>)																										
	☐ Yes ☐ No ☒ Not applicable																										

SECTION 7. EFFLUENT AND INTAKE CHARACTERISTICS (40 CFR 122.21(G)(7))

Effluent and Intake Characteristics	See the instructions to determine the pollutants and parameters you are required to monitor and, in turn, the tables you must complete. Not all applicants need to complete each table.	
	Table A. Conventional and Non-Conventional Pollutants	
	7.1	Are you requesting a waiver from your NPDES permitting authority for any Table A pollutants for any of your outfalls?
		☐ Yes ☒ No → SKIP to Item 7.3.
	7.2	If yes, indicate the applicable outfalls below or check the appropriate box to indicate that you are requesting a waiver for all outfalls. Attach waiver request and other required information to the application.
		Outfall number _____ Outfall number _____ Outfall number _____ ☐ I am requesting a waiver for some pollutants at all outfalls. ☐ I am requesting a waiver for all pollutants at all outfalls → SKIP to Item 7.4.
	7.3	Have you completed monitoring for all Table A pollutants at each of your outfalls for which a waiver has not been requested and attached the results to this application package?
		☐ Yes
Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants		
7.4	Do any of the facility's processes that contribute wastewater fall into one or more of the primary industry categories listed in Exhibit 2C-3? (See end of instructions for exhibit.)	
	☐ Yes ☒ No → SKIP to Item 7.8.	
7.5	Have you checked "Testing Required" for all toxic metals, cyanide, and total phenols in Section 1 of Table B?	
	☐ Yes	

EPA Identification Number		NPDES Permit Number		Facility Name Quantum Frederick		OMB No. 2040-0004 Expires 07/31/2026		
	7.6	List the applicable primary industry categories and check the boxes indicating the required GC/MS fraction(s) identified in Exhibit 2C-3.						
		Primary Industry Category			Required GC/MS Fraction(s) (check applicable boxes)			
					☐ Volatile	☐ Acid	☐ Base/neutral	☐ Pesticide
					☐ Volatile	☐ Acid	☐ Base/neutral	☐ Pesticide
					☐ Volatile	☐ Acid	☐ Base/neutral	☐ Pesticide
Effluent and Intake Characteristics Continued	7.7	Have you checked "Testing Required" for all required pollutants in Sections 2 through 5 of Table B for each of the GC/MS fractions checked in Item 7.6? ☐ Yes						
	7.8	Have you checked "Believed Present" or "Believed Absent" for all pollutants listed in Sections 1 through 5 of Table B where testing is not required? ☐ Yes						
	7.9	Have you provided (1) quantitative data for those Section 1, Table B, pollutants for which you have indicated testing is required or (2) quantitative data or other required information for those Section 1, Table B, pollutants that you have indicated are "Believed Present" in your discharge? ☐ Yes						
	7.10	Does the applicant qualify for a small business exemption under the criteria specified in the instructions? ☐ Yes → Note that you qualify at the top of Table B, then SKIP to Item 7.12. ☒ No						
	7.11	Have you provided (1) quantitative data for those Sections 2 through 5, Table B, pollutants for which you have determined testing is required or (2) quantitative data or an explanation for those Sections 2 through 5, Table B, pollutants you have indicated are "Believed Present" in your discharge? ☒ Yes						
	Table C. Certain Conventional and Non-Conventional Pollutants							
	7.12	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table C for all outfalls? ☒ Yes						
	7.13	Have you completed Table C by providing quantitative data for those pollutants that are limited either directly or indirectly in an ELG? You must provide quantitative data even if the pollutant is "Believed Absent." ☐ Yes ☒ Not applicable						
	7.14	Have you completed Table C by providing quantitative data or an explanation for those pollutants for which you have indicated "Believed Present"? ☒ Yes						
	Table D. Certain Hazardous Substances and Asbestos							
	7.15	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table D for all outfalls? ☒ Yes						
	7.16	Have you completed Table D by (1) describing the reasons the applicable pollutants are expected to be discharged and (2) providing quantitative data, if available? ☒ Yes ☐ No						
	Table E. 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (2,3,7,8-TCDD)							
7.17	Does the facility use or manufacture one or more of the 2,3,7,8-TCDD congeners listed in the instructions, or do you know or have reason to believe that TCDD is or may be present in the effluent? ☐ Yes → Complete Table E. ☒ No → SKIP to Section 8.							
7.18	Have you completed Table E by reporting <i>qualitative</i> data for TCDD? ☐ Yes							

EPA Identification Number	NPDES Permit Number	Facility Name Quantum Frederick	OMB No. 2040-0004 Expires 07/31/2026

SECTION 8. USED OR MANUFACTURED TOXICS (40 CFR 122.21(G)(9))

Used or Manufactured Toxics	8.1	Is any pollutant listed in Table B a substance or a component of a substance used or manufactured at your facility as an intermediate or final product or byproduct? ☐ Yes ☒ No → SKIP to Section 9.		
	8.2	List the pollutants below. Attach additional sheets, if necessary.		
	1.	4.	7.	
	2.	5.	8.	
	3.	6.	9.	

SECTION 9. BIOLOGICAL TOXICITY TESTS (40 CFR 122.21(G)(11))

Biological Toxicity Tests	9.1	Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made within the last three years on (1) any of your discharges or (2) a receiving water in relation to your discharge? ☐ Yes ☒ No → SKIP to Section 10.			
	9.2	Identify the tests and their purposes below.			
		Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?	Date Submitted
				☐ Yes ☐ No	
				☐ Yes ☐ No	
			☐ Yes ☐ No		

SECTION 10. CONTRACT ANALYSES (40 CFR 122.21(G)(12))

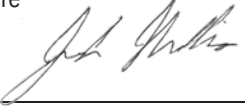
Contract Analyses	10.1	Were any of the analyses reported in Section 7 performed by a contract laboratory or consulting firm? ☒ Yes ☐ No → SKIP to Section 11.		
	10.2	Provide information for each contract laboratory or consulting firm below.		
		Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
	Name of laboratory/firm	Eurofins Lancaster Laboratories Environment Testing, LLC		
	Laboratory address	2425 New Holland Pike, Lancaster, PA		
	Phone number	(412) 525-0071		
	Pollutant(s) analyzed	VOCs, SVOCs, GRO/DRO, PCBs, Anions, Metals/Mercury, pH, free cyanide		

EPA Identification Number		NPDES Permit Number		Facility Name Quantum Frederick		OMB No. 2040-0004 Expires 07/31/2026	
SECTION 11. ADDITIONAL INFORMATION (40 CFR 122.21(G)(13))							
Additional Information	<u>11.1</u>	Has the NPDES permitting authority requested additional information? ☐ Yes ☒ No → SKIP to Section 12.					
	<u>11.2</u>	List the information requested and attach it to this application.					
	1.						4.
	2.						5.
	3.						6.
SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(A) AND (D))							
Checklist and Certification Statement	<u>12.1</u>	In Column 1 below, mark the sections of Form 2C that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to complete all sections or provide attachments.					
		Column 1		Column 2			
	☒	Section 1: Outfall Location		☒ w/ attachments			
	☐	Section 2: Line Drawing		☐ w/ line drawing		☐ w/ additional attachments	
	☐	Section 3: Average Flows and Treatment		☐ w/ attachments		☐ w/ list of each user of privately owned treatment works	
	☐	Section 4: Intermittent Flows		☐ w/ attachments			
	☐	Section 5: Production		☐ w/ attachments			
	☐	Section 6: Improvements		☐ w/ attachments		☐ w/ optional additional sheets describing any additional pollution control plans	
	☒	Section 7: Effluent and Intake Characteristics		☒ w/ request for a waiver and supporting information ☐ w/ small business exemption request ☒ w/ Table A ☒ w/ Table C ☒ w/ Table E		☐ w/ explanation for identical outfalls ☐ w/ other attachments ☒ w/ Table B ☒ w/ Table D ☒ w/ analytical results as an attachment	
	☐	Section 8: Used or Manufactured Toxics		☐ w/ attachments			
	☐	Section 9: Biological Toxicity Tests		☐ w/ attachments			
	☒	Section 10: Contract Analyses		☐ w/ attachments			
	☐	Section 11: Additional Information		☐ w/ attachments			
	☒	Section 12: Checklist and Certification Statement		☐ w/ attachments			

EPA Identification Number	NPDES Permit Number	Facility Name Quantum Frederick

OMB No. 2040-0004
Expires 07/31/2026

SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d)) (Continued)

Checklist and Certification Statement	12.2	Provide the following certification. (See instructions to determine the appropriate person to sign the application.)	
		Certification Statement <i>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</i>	
		Name (print or type first and last name) Joshua Mullis	Official title Project Manager
		Signature 	Date signed 6/20/2025

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
		Quantum Frederick	QM-R-251186

TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii))¹

TABLE 1. CONVENTIONAL POLLUTANT MONITORING AND REPORTING REQUIREMENTS (18 OF 18) (10/1/2017)									
Pollutant	Waiver Requested (if applicable)	Units (specify)	Effluent				Intake (optional)		
			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses	
☒	Check here if you have applied to your NPDES permitting authority for a waiver for all of the pollutants listed on this table for the noted outfall.								
1.	☐	Concentration							
		Mass							
2.	☐	Concentration							
		Mass							
3.	☐	Concentration							
		Mass							
4.	☐	Concentration							
		Mass							
5.	☐	Concentration							
		Mass							
6.	☐	Rate							
7.	☐	°C							
	☒	°C	18.8						
8.	☒	Standard units	7.9						
	☒	Standard units	7.9						

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
☐ Check here if you qualify as a small business per the instructions to Form 2C and, therefore, do not need to submit quantitative data for any of the organic toxic pollutants in Sections 2 through 5 of this table. Note, however, that you must still indicate in the appropriate column of this table if you believe any of the pollutants listed are present in your discharge.											
Section 1. Toxic Metals, Cyanide, and Total Phenols											
1.1 Antimony, total (7440-36-0)	☐	☒	☐	Concentration Mass	ug/L	0.25 J					
1.2 Arsenic, total (7440-38-2)	☒	☒	☐	Concentration Mass	ug/L	0.91 J					
1.3 Beryllium, total (7440-41-7)	☐	☐	☒	Concentration Mass	ug/L	< 0.12 U					
1.4 Cadmium, total (7440-43-9)	☒	☐	☒	Concentration Mass	ug/L	< 0.15 U					
1.5 Chromium, total (7440-47-3)	☐	☐	☒	Concentration Mass	ug/L	< 0.55 U					
1.6 Copper, total (7440-50-8)	☐	☐	☒	Concentration Mass	ug/L	< 0.85 U					
1.7 Lead, total (7439-92-1)	☒	☐	☒	Concentration Mass	ug/L	< 0.12 U					
1.8 Mercury, total (7439-97-6)	☐	☐	☒	Concentration Mass	ug/L	< 0.087 U					
1.9 Nickel, total (7440-02-0)	☒	☒	☐	Concentration Mass	ug/L	1.6					
1.10 Selenium, total (7782-49-2)	☐	☒	☐	Concentration Mass	ug/L	1.3					
1.11 Silver, total (7440-22-4)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U					

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
1.12 Thallium, total (7440-28-0)	☐	☐	☒	Concentration Mass	ug/L	< 0.13 U				
1.13 Zinc, total (7440-66-6)	☐	☒	☐	Concentration Mass	ug/L	240				
1.14 Cyanide, total (57-12-5)	☒	☐	☒	Concentration Mass	mg/L	< 0.005 U free cyanide				
1.15 Phenols, total	☐	☐	☒	Concentration Mass						
Section 2. Organic Toxic Pollutants (GC/MS Fraction—Volatile Compounds)										
2.1 Acrolein (107-02-8)	☐	☐	☒	Concentration Mass						
2.2 Acrylonitrile (107-13-1)	☐	☐	☒	Concentration Mass						
2.3 Benzene (71-43-2)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				
2.4 Bromoform (75-25-2)	☐	☐	☒	Concentration Mass						
2.5 Carbon tetrachloride (56-23-5)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				
2.6 Chlorobenzene (108-90-7)	☐	☐	☒	Concentration Mass	ug/L	< 0.07 U				
2.7 Chlorodibromomethane (124-48-1)	☐	☐	☒	Concentration Mass						
2.8 Chloroethane (75-00-3)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
2.9 2-chloroethylvinyl ether (110-75-8)	☐	☐	☒	Concentration Mass						
2.10 Chloroform (67-66-3)	☐	☐	☒	Concentration Mass	ug/L	< 0.09 U				
2.11 Dichlorobromomethane (75-27-4)	☐	☐	☒	Concentration Mass						
2.12 1,1-dichloroethane (75-34-3)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				
2.13 1,2-dichloroethane (107-06-2)	☐	☐	☒	Concentration Mass	ug/L	< 0.07 U				
2.14 1,1-dichloroethylene (75-35-4)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				
2.15 1,2-dichloropropane (78-87-5)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				
2.16 1,3-dichloropropylene (542-75-6)	☐	☐	☒	Concentration Mass						
2.17 Ethylbenzene (100-41-4)	☐	☐	☒	Concentration Mass	ug/L	< 0.08 U				
2.18 Methyl bromide (74-83-9)	☐	☐	☒	Concentration Mass						
2.19 Methyl chloride (74-87-3)	☐	☐	☒	Concentration Mass						
2.20 Methylene chloride (75-09-2)	☐	☐	☒	Concentration Mass	ug/L	< 0.2 U				
2.21 1,1,2,2- tetrachloroethane (79-34-5)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
2.22 Tetrachloroethylene (127-18-4)	☒	☐	☒	Concentration Mass	< 0.30 U					
2.23 Toluene (108-88-3)	☐	☐	☒	Concentration Mass	< 0.08 U					
2.24 1,2-trans-dichloroethylene (156-60-5)	☐	☐	☒	Concentration Mass						
2.25 1,1,1-trichloroethane (71-55-6)	☐	☐	☒	Concentration Mass	< 0.08 U					
2.26 1,1,2-trichloroethane (79-00-5)	☐	☐	☒	Concentration Mass	< 0.08 U					
2.27 Trichloroethylene (79-01-6)	☐	☐	☒	Concentration Mass						
2.28 Vinyl chloride (75-01-4)	☐	☐	☒	Concentration Mass	< 0.1 U					

Section 3. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds)

3.1 2-chlorophenol (95-57-8)	☐	☐	☒	Concentration Mass						
3.2 2,4-dichlorophenol (120-83-2)	☐	☐	☒	Concentration Mass						
3.3 2,4-dimethylphenol (105-67-9)	☐	☐	☒	Concentration Mass						
3.4 4,6-dinitro-o-cresol (534-52-1)	☐	☐	☒	Concentration Mass						
3.5 2,4-dinitrophenol (51-28-5)	☐	☐	☒	Concentration Mass						

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
3.6 2-nitrophenol (88-75-5)	☐	☐	☒	Concentration Mass						
3.7 4-nitrophenol (100-02-7)	☐	☐	☒	Concentration Mass						
3.8 p-chloro-m-cresol (59-50-7)	☐	☐	☒	Concentration Mass						
3.9 Pentachlorophenol (87-86-5)	☐	☐	☒	Concentration Mass						
3.10 Phenol (108-95-2)	☐	☐	☒	Concentration Mass						
3.11 2,4,6-trichlorophenol (88-05-2)	☐	☐	☒	Concentration Mass						

Section 4. Organic Toxic Pollutants (GC/MS Fraction—Base /Neutral Compounds)

4.1 Acenaphthene (83-32-9)	☒	☐	☒	Concentration Mass	ug/L	< 0.01 U				
4.2 Acenaphthylene (208-96-8)	☒	☐	☒	Concentration Mass	ug/L	< 0.01 U				
4.3 Anthracene (120-12-7)	☒	☐	☒	Concentration Mass	ug/L	< 0.01 U				
4.4 Benzidine (92-87-5)	☐	☐	☒	Concentration Mass						
4.5 Benzo (a) anthracene (56-55-3)	☒	☐	☒	Concentration Mass	ug/L	< 0.01 U				
4.6 Benzo (a) pyrene (50-32-8)	☒	☐	☒	Concentration Mass	ug/L	< 0.01 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.7 3,4-benzofluoranthene (205-99-2)	☐	☐	☒	Concentration Mass						
4.8 Benzo (ghi) perylene (191-24-2)	☐	☐	☒	Concentration Mass	ug/L	< 0.01 U				
4.9 Benzo (k) fluoranthene (207-08-9)	☐	☐	☒	Concentration Mass	ug/L	< 0.01 U				
4.10 Bis (2-chloroethoxy) methane (111-91-1)	☐	☐	☒	Concentration Mass						
4.11 Bis (2-chloroethyl) ether (111-44-4)	☐	☐	☒	Concentration Mass						
4.12 Bis (2-chloroisopropyl) ether (102-80-1)	☐	☐	☒	Concentration Mass						
4.13 Bis (2-ethylhexyl) phthalate (117-81-7)	☐	☐	☒	Concentration Mass						
4.14 4-bromophenyl phenyl ether (101-55-3)	☐	☐	☒	Concentration Mass						
4.15 Butyl benzyl phthalate (85-68-7)	☐	☐	☒	Concentration Mass						
4.16 2-chloronaphthalene (91-58-7)	☐	☐	☒	Concentration Mass						
4.17 4-chlorophenyl phenyl ether (7005-72-3)	☐	☐	☒	Concentration Mass						
4.18 Chrysene (218-01-9)	☒	☐	☒	Concentration Mass	ug/L	< 0.026 U				
4.19 Dibenzo (a,h) anthracene (53-70-3)	☐	☐	☒	Concentration Mass	ug/L	< 0.021 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)		Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)		
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
4.20	1,2-dichlorobenzene (95-50-1)	☐	☐	☒	Concentration	ug/L	< 0.07 U						
4.21	1,3-dichlorobenzene (541-73-1)	☐	☐	☒	Concentration	ug/L	< 0.07 U						
4.22	1,4-dichlorobenzene (106-46-7)	☐	☐	☒	Concentration	ug/L	< 0.07 U						
4.23	3,3-dichlorobenzidine (91-94-1)	☐	☐	☒	Concentration								
4.24	Diethyl phthalate (84-66-2)	☐	☐	☒	Concentration								
4.25	Dimethyl phthalate (131-11-3)	☐	☐	☒	Concentration								
4.26	Di-n-butyl phthalate (84-74-2)	☐	☐	☒	Concentration								
4.27	2,4-dinitrotoluene (121-14-2)	☐	☐	☒	Concentration								
4.28	2,6-dinitrotoluene (606-20-2)	☐	☐	☒	Concentration								
4.29	Di-n-octyl phthalate (117-84-0)	☐	☐	☒	Concentration								
4.30	1,2-Diphenylhydrazine (as azobenzene) (122-66-7)	☐	☐	☒	Concentration								
4.31	Fluoranthene (206-44-0)	☐	☐	☒	Concentration	ug/L	< 0.024 U						
4.32	Fluorene (86-73-7)	☐	☐	☒	Concentration	ug/L	< 0.01 U						

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.33 Hexachlorobenzene (118-74-1)	☐	☐	☒	Concentration Mass						
4.34 Hexachlorobutadiene (87-68-3)	☐	☐	☒	Concentration Mass						
4.35 Hexachlorocyclopentadiene (77-47-4)	☐	☐	☒	Concentration Mass						
4.36 Hexachloroethane (67-72-1)	☐	☐	☒	Concentration Mass						
4.37 Indeno (1,2,3-cd) pyrene (193-39-5)	☐	☐	☒	Concentration Mass	ug/L	< 0.021 U				
4.38 Isophorone (78-59-1)	☐	☐	☒	Concentration Mass						
4.39 Naphthalene (91-20-3)	☒	☒	☐	Concentration Mass	ug/L	0.097				
4.40 Nitrobenzene (98-95-3)	☐	☐	☒	Concentration Mass						
4.41 N-nitrosodimethylamine (62-75-9)	☐	☐	☒	Concentration Mass						
4.42 N-nitrosodi-n-propylamine (621-64-7)	☐	☐	☒	Concentration Mass						
4.43 N-nitrosodiphenylamine (86-30-6)	☐	☐	☒	Concentration Mass						
4.44 Phenanthrene (85-01-8)	☐	☐	☒	Concentration Mass	ug/L	< 0.031 U				
4.45 Pyrene (129-00-0)	☐	☐	☒	Concentration Mass	ug/L	< 0.022 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
		Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses		
4.46 1,2,4-trichlorobenzene (120-82-1)	☐	☐	☒	Concentration	ug/L	< 0.07 U					
Section 5. Organic Toxic Pollutants (GC/MS Fraction—Pesticides)											
5.1 Aldrin (309-00-2)	☐	☐	☒	Concentration							
5.2 α -BHC (319-84-6)	☐	☐	☒	Concentration							
5.3 β -BHC (319-85-7)	☐	☐	☒	Concentration							
5.4 γ -BHC (58-89-9)	☐	☐	☒	Concentration							
5.5 δ -BHC (319-86-8)	☐	☐	☒	Concentration							
5.6 Chlordane (57-74-9)	☐	☐	☒	Concentration							
5.7 4,4'-DDT (50-29-3)	☐	☐	☒	Concentration							
5.8 4,4'-DDE (72-55-9)	☐	☐	☒	Concentration							
5.9 4,4'-DDD (72-54-8)	☐	☐	☒	Concentration							
5.10 Dieldrin (60-57-1)	☐	☐	☒	Concentration							
5.11 α -endosulfan (115-29-7)	☐	☐	☒	Concentration							

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
5.12 β-endosulfan (115-29-7)	☐	☐	☒	Concentration Mass						
5.13 Endosulfan sulfate (1031-07-8)	☐	☐	☒	Concentration Mass						
5.14 Endrin (72-20-8)	☐	☐	☒	Concentration Mass						
5.15 Endrin aldehyde (7421-93-4)	☐	☐	☒	Concentration Mass						
5.16 Heptachlor (76-44-8)	☐	☐	☒	Concentration Mass						
5.17 Heptachlor epoxide (1024-57-3)	☐	☐	☒	Concentration Mass						
5.18 PCB-1242 (53469-21-9)	☒	☐	☒	Concentration Mass	ug/L < 0.0082 U					
5.19 PCB-1254 (11097-69-1)	☒	☐	☒	Concentration Mass	ug/L < 0.0051 U					
5.20 PCB-1221 (11104-28-2)	☒	☐	☒	Concentration Mass	ug/L < 0.0082 U					
5.21 PCB-1232 (11141-16-5)	☒	☐	☒	Concentration Mass	ug/L < 0.0082 U					
5.22 PCB-1248 (12672-29-6)	☒	☐	☒	Concentration Mass	ug/L < 0.0082 U					
5.23 PCB-1260 (11096-82-5)	☒	☐	☒	Concentration Mass	ug/L < 0.0051 U					
5.24 PCB-1016 (12674-11-2)	☒	☐	☒	Concentration Mass	ug/L < 0.0082 U					

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) ¹											
Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
Toxaphene (8001-35-2)	☐	☐	☒	Concentration							
				Mass							

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

	Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses	
☐	Check here if you believe all pollutants in Table C to be present in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for each pollutant.										
☐	Check here if you believe all pollutants in Table C to be absent in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for each pollutant.										
1.	Bromide (24959-67-9)	☐	☒	Concentration Mass							
2.	Chlorine, total residual	☐	☒	Concentration Mass							
3.	Color	☐	☒	Concentration Mass							
4.	Fecal coliform	☐	☒	Concentration Mass							
5.	Fluoride (16984-48-8)	☒	☐	Concentration Mass	mg/L	2.9					
6	Nitrate-nitrite	☐	☒	Concentration Mass							
7.	Nitrogen, total organic (as N)	☐	☒	Concentration Mass							
8.	Oil and grease	☐	☒	Concentration Mass							
9.	Phosphorus (as P), total (7723-14-0)	☐	☒	Concentration Mass							
10.	Sulfate (as SO ₄) (14808-79-8)	☐	☒	Concentration Mass							
11.	Sulfide (as S)	☐	☒	Concentration Mass							

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
12. Sulfite (as SO ₃) (14265-45-3)	☐	☒	Concentration Mass						
13. Surfactants	☐	☒	Concentration Mass						
14. Aluminum, total (7429-90-5)	☒	☐	Concentration Mass	44					
15. Barium, total (7440-39-3)	☒	☐	Concentration Mass	30					
16. Boron, total (7440-42-8)	☐	☒	Concentration Mass						
17. Cobalt, total (7440-48-4)	☒	☐	Concentration Mass	56					
18. Iron, total (7439-89-6)	☒	☐	Concentration Mass	160					
19. Magnesium, total (7439-95-4)	☒	☐	Concentration Mass	16000					
20. Molybdenum, total (7439-98-7)	☐	☒	Concentration Mass						
21. Manganese, total (7439-96-5)	☒	☐	Concentration Mass	88					
22. Tin, total (7440-31-5)	☐	☒	Concentration Mass						
23. Titanium, total (7440-32-6)	☐	☒	Concentration Mass						

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi)) ¹									
Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
24. Radioactivity									
Alpha, total	☐	☒	Concentration Mass						
Beta, total	☐	☒	Concentration Mass						
Radium, total	☐	☒	Concentration Mass						
Radium 226, total	☐	☒	Concentration Mass						

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number	NPDES Permit Number	Facility Name Quantum Frederick	Outfall Number QM-R-251186	OMB No. 2040-0004 Expires 07/31/2026

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹				
Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
1. Asbestos	☐	☒		
2. Acetaldehyde	☐	☒		
3. Allyl alcohol	☐	☒		
4. Allyl chloride	☐	☒		
5. Amyl acetate	☐	☒		
6. Aniline	☐	☒		
7. Benzotrile	☐	☒		
8. Benzyl chloride	☐	☒		
9. Butyl acetate	☐	☒		
10. Butylamine	☐	☒		
11. Captan	☐	☒		
12. Carbaryl	☐	☒		
13. Carbofuran	☐	☒		
14. Carbon disulfide	☐	☒		
15. Chlorpyrifos	☐	☒		
16. Coumaphos	☐	☒		
17. Cresol	☐	☒		
18. Crotonaldehyde	☐	☒		
19. Cyclohexane	☐	☒		0.1 ug/L U

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹				
Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
20. 2,4-D (2,4-dichlorophenoxyacetic acid)	☐	☒		
21. Diazinon	☐	☒		
22. Dicamba	☐	☒		
23. Dichlobenil	☐	☒		
24. Diclhone	☐	☒		
25. 2,2-dichloropropionic acid	☐	☒		
26. Dichlorvos	☐	☒		
27. Diethyl amine	☐	☒		
28. Dimethyl amine	☐	☒		
29. Dintrobenezene	☐	☒		
30. Diquat	☐	☒		
31. Disulfoton	☐	☒		
32. Diuron	☐	☒		
33. Epichlorohydrin	☐	☒		
34. Ethion	☐	☒		
35. Ethylene diamine	☐	☒		
36. Ethylene dibromide	☐	☒		
37. Formaldehyde	☐	☒		
38. Furfural	☐	☒		

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
39. Guthion	☐	☒		
40. Isoprene	☐	☒		
41. Isopropanolamine	☐	☒		
42. Kelthane	☐	☒		
43. Kepone	☐	☒		
44. Malathion	☐	☒		
45. Mercaptodimethur	☐	☒		
46. Methoxychlor	☐	☒		
47. Methyl mercaptan	☐	☒		
48. Methyl methacrylate	☐	☒		
49. Methyl parathion	☐	☒		
50. Mevinphos	☐	☒		
51. Mexacarbate	☐	☒		
52. Monoethyl amine	☐	☒		
53. Monomethyl amine	☐	☒		
54. Naled	☐	☒		
55. Naphthenic acid	☐	☒		
56. Nitrotoluene	☐	☒		
57. Parathion	☐	☒		

EPA Identification Number	NPDES Permit Number	Facility Name Quantum Frederick	Outfall Number QM-R-251186	OMB No. 2040-0004 Expires 07/31/2026

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
58. Phenolsulfonate	☐	☒		
59. Phosgene	☐	☒		
60. Propargite	☐	☒		
61. Propylene oxide	☐	☒		
62. Pyrethrins	☐	☒		
63. Quinoline	☐	☒		
64. Resorcinol	☐	☒		
65. Strontium	☐	☒		
66. Strychnine	☐	☒		
67. Styrene	☐	☒		< 0.07 ug/L U
68. 2,4,5-T (2,4,5-trichlorophenoxyacetic acid)	☐	☒		
69. TDE (tetrachlorodiphenyl ethane)	☐	☒		
70. 2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic acid]	☐	☒		
71. Trichlorofon	☐	☒		
72. Triethanolamine	☐	☒		
73. Triethylamine	☐	☒		
74. Trimethylamine	☐	☒		
75. Uranium	☐	☐		
76. Vanadium	☐	☒		

EPA Identification Number	NPDES Permit Number	Facility Name Quantum Frederick	Outfall Number QM-R-251186

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹				
Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
77. Vinyl acetate	☐	☒		
78. Xylene	☐	☒		
79. Xylenol	☐	☒		
80. Zirconium	☐	☒		

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE E. 2,3,7,8 TETRACHLORODIBENZO P DIOXIN (2,3,7,8 TCDD) (40 CFR 122.21(g)(7)(viii))				
Pollutant	TCDD Congeners Used or Manufactured	Presence or Absence (check one)		Results of Screening Procedure
		Believed Present	Believed Absent	
2,3,7,8-TCDD	☐	☐	☒	

EPA Identification Number		NPDES Permit Number		Facility Name Quantum Frederick		OMB No. 2040-0004 Expires 07/31/2026	
Form 2C NPDES			U.S. Environmental Protection Agency Application for NPDES Permit to Discharge Wastewater EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURE OPERATIONS				
SECTION 1. OUTFALL LOCATION (40 CFR 122.21(G)(1))							
Outfall Location	<u>1.1</u> Provide information on each of the facility's outfalls in the table below.						
	Outfall Number	Receiving Water Name	Latitude		Longitude		
	QM-R-255850	Ground surface in EC	Multiple - see map		Multiple - see map		
SECTION 2. LINE DRAWING (40 CFR 122.21(G)(2))							
Line Drawing	<u>2.1</u> Have you attached a line drawing to this application that shows the water flow through your facility with a water balance? (See instructions for drawing requirements. See Exhibit 2C-1 at end of instructions for example.) ☐ Yes						
SECTION 3. AVERAGE FLOWS AND TREATMENT (40 CFR 122.21(G)(3))							
Average Flows and Treatment	<u>3.1</u> For each outfall identified under Item 1.1, provide average flow and treatment information. Add additional sheets if necessary.						
	Outfall Number QM-255850						
	Operations Contributing to Flow						
	Operation			Average Flow			
	Quantum Place South EMP-2			mgd			
				mgd			
				mgd			
				mgd			
	Treatment Units						
	Description (include size, flow rate through each treatment unit, retention time, etc.)			Code from Exhibit 2C-2		Final Disposal of Solid or Liquid Wastes Other Than by Discharge	

EPA Identification Number		NPDES Permit Number		Facility Name Quantum Frederick		OMB No. 2040-0004 Expires 07/31/2026			
Average Flows and Treatment Continued	3.1 cont.	**Outfall Number** _____							
		Operations Contributing to Flow							
		Operation			Average Flow				
					mgd				
					mgd				
					mgd				
					mgd				
		Treatment Units							
		Description (include size, flow rate through each treatment unit, retention time, etc.)			Code from Exhibit 2C-2		Final Disposal of Solid or Liquid Wastes Other Than by Discharge		
		Outfall Number _____							
		Operations Contributing to Flow							
		Operation			Average Flow				
					mgd				
					mgd				
					mgd				
					mgd				
		Treatment Units							
		Description (include size, flow rate through each treatment unit, retention time, etc.)			Code from Exhibit 2C-2		Final Disposal of Solid or Liquid Wastes Other Than by Discharge		
		System Users	3.2	Are you applying for an NPDES permit to operate a privately owned treatment works? ☐ Yes ☒ No → SKIP to Section 4.					
			3.3	Have you attached a list that identifies each user of the treatment works? ☐ Yes					

EPA Identification Number		NPDES Permit Number		Facility Name Quantum Frederick		OMB No. 2040-0004 Expires 07/31/2026		
SECTION 4. INTERMITTENT FLOWS (40 CFR 122.21(G)(4))								
Intermittent Flows	4.1	Except for storm runoff, leaks, or spills, are any discharges described in Sections 1 and 3 intermittent or seasonal? ☐ Yes ☒ No → SKIP to Section 5.						
	4.2	Provide information on intermittent or seasonal flows for each applicable outfall. Attach additional pages, if necessary.						
		Outfall Number	Operation (list)	Frequency		Flow Rate		Duration
				Average Days/Week	Average Months/Year	Long-Term Average	Maximum Daily	
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
SECTION 5. PRODUCTION (40 CFR 122.21(G)(5))								
Applicable ELGs	5.1	Do any effluent limitation guidelines (ELGs) promulgated by EPA under Section 304 of the CWA apply to your facility? ☐ Yes ☒ No → SKIP to Section 6.						
	5.2	Provide the following information on applicable ELGs.						
		ELG Category	ELG Subcategory				Regulatory Citation	
Production-Based Limitations	5.3	Are any of the applicable ELGs expressed in terms of production (or other measure of operation)? ☐ Yes ☒ No → SKIP to Section 6.						
	5.4	Provide an actual measure of daily production expressed in terms and units of applicable ELGs.						
		Outfall Number	Operation, Product, or Material			Quantity per Day	Unit of Measure	

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	5.5	Are you requesting alternative limits based on an anticipated increase in the actual production during the next permit term? (Consult with your NPDES permitting authority to determine what information needs to be submitted and when.)
		☐ Yes ☐ No

SECTION 6. IMPROVEMENTS (40 CFR 122.21(G)(6))

Upgrades and Improvements	6.1	Are you presently required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application?																						
		☐ Yes ☒ No → SKIP to Item 6.3.																						
	6.2	Briefly identify each applicable project in the table below.																						
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th rowspan="2" style="width: 40%;">Brief Identification and Description of Project</th> <th rowspan="2" style="width: 15%;">Affected Outfalls (list outfall number)</th> <th rowspan="2" style="width: 20%;">Source(s) of Discharge</th> <th colspan="2" style="width: 25%;">Final Compliance Dates</th> </tr> <tr> <th style="width: 10%;">Required</th> <th style="width: 15%;">Projected</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>		Brief Identification and Description of Project	Affected Outfalls (list outfall number)	Source(s) of Discharge	Final Compliance Dates		Required	Projected															
	Brief Identification and Description of Project	Affected Outfalls (list outfall number)				Source(s) of Discharge	Final Compliance Dates																	
Required			Projected																					
6.3	Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? (<i>optional item</i>)																							
	☐ Yes ☐ No ☒ Not applicable																							

SECTION 7. EFFLUENT AND INTAKE CHARACTERISTICS (40 CFR 122.21(G)(7))

Effluent and Intake Characteristics	See the instructions to determine the pollutants and parameters you are required to monitor and, in turn, the tables you must complete. Not all applicants need to complete each table.	
	Table A. Conventional and Non-Conventional Pollutants	
	7.1	Are you requesting a waiver from your NPDES permitting authority for any Table A pollutants for any of your outfalls?
		☐ Yes ☒ No → SKIP to Item 7.3.
	7.2	If yes, indicate the applicable outfalls below or check the appropriate box to indicate that you are requesting a waiver for all outfalls. Attach waiver request and other required information to the application.
		Outfall number _____ Outfall number _____ Outfall number _____
		☐ I am requesting a waiver for some pollutants at all outfalls. ☐ I am requesting a waiver for all pollutants at all outfalls → SKIP to Item 7.4.
	7.3	Have you completed monitoring for all Table A pollutants at each of your outfalls for which a waiver has not been requested and attached the results to this application package?
	☐ Yes	
Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants		
7.4	Do any of the facility's processes that contribute wastewater fall into one or more of the primary industry categories listed in Exhibit 2C-3? (See end of instructions for exhibit.)	
	☐ Yes ☒ No → SKIP to Item 7.8.	
7.5	Have you checked "Testing Required" for all toxic metals, cyanide, and total phenols in Section 1 of Table B?	
	☐ Yes	

EPA Identification Number		NPDES Permit Number		Facility Name Quantum Frederick		OMB No. 2040-0004 Expires 07/31/2026		
	7.6	List the applicable primary industry categories and check the boxes indicating the required GC/MS fraction(s) identified in Exhibit 2C-3.						
		Primary Industry Category			Required GC/MS Fraction(s) (check applicable boxes)			
					☐ Volatile	☐ Acid	☐ Base/neutral	☐ Pesticide
					☐ Volatile	☐ Acid	☐ Base/neutral	☐ Pesticide
					☐ Volatile	☐ Acid	☐ Base/neutral	☐ Pesticide
Effluent and Intake Characteristics Continued	7.7	Have you checked "Testing Required" for all required pollutants in Sections 2 through 5 of Table B for each of the GC/MS fractions checked in Item 7.6? ☐ Yes						
	7.8	Have you checked "Believed Present" or "Believed Absent" for all pollutants listed in Sections 1 through 5 of Table B where testing is not required? ☐ Yes						
	7.9	Have you provided (1) quantitative data for those Section 1, Table B, pollutants for which you have indicated testing is required or (2) quantitative data or other required information for those Section 1, Table B, pollutants that you have indicated are "Believed Present" in your discharge? ☐ Yes						
	7.10	Does the applicant qualify for a small business exemption under the criteria specified in the instructions? ☐ Yes → Note that you qualify at the top of Table B, then SKIP to Item 7.12. ☒ No						
	7.11	Have you provided (1) quantitative data for those Sections 2 through 5, Table B, pollutants for which you have determined testing is required or (2) quantitative data or an explanation for those Sections 2 through 5, Table B, pollutants you have indicated are "Believed Present" in your discharge? ☒ Yes						
	Table C. Certain Conventional and Non-Conventional Pollutants							
	7.12	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table C for all outfalls? ☒ Yes						
	7.13	Have you completed Table C by providing quantitative data for those pollutants that are limited either directly or indirectly in an ELG? You must provide quantitative data even if the pollutant is "Believed Absent." ☐ Yes ☒ Not applicable						
	7.14	Have you completed Table C by providing quantitative data or an explanation for those pollutants for which you have indicated "Believed Present"? ☒ Yes						
	Table D. Certain Hazardous Substances and Asbestos							
	7.15	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table D for all outfalls? ☒ Yes						
	7.16	Have you completed Table D by (1) describing the reasons the applicable pollutants are expected to be discharged and (2) providing quantitative data, if available? ☒ Yes ☐ No						
	Table E. 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (2,3,7,8-TCDD)							
7.17	Does the facility use or manufacture one or more of the 2,3,7,8-TCDD congeners listed in the instructions, or do you know or have reason to believe that TCDD is or may be present in the effluent? ☐ Yes → Complete Table E. ☒ No → SKIP to Section 8.							
7.18	Have you completed Table E by reporting <i>qualitative</i> data for TCDD? ☐ Yes							

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SECTION 8. USED OR MANUFACTURED TOXICS (40 CFR 122.21(G)(9))

Used or Manufactured Toxics	8.1	Is any pollutant listed in Table B a substance or a component of a substance used or manufactured at your facility as an intermediate or final product or byproduct? ☐ Yes ☒ No → SKIP to Section 9.		
	8.2	List the pollutants below. Attach additional sheets, if necessary.		
	1.	4.	7.	
	2.	5.	8.	
	3.	6.	9.	

SECTION 9. BIOLOGICAL TOXICITY TESTS (40 CFR 122.21(G)(11))

Biological Toxicity Tests	9.1	Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made within the last three years on (1) any of your discharges or (2) a receiving water in relation to your discharge? ☐ Yes ☒ No → SKIP to Section 10.			
	9.2	Identify the tests and their purposes below.			
		Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?	Date Submitted
				☐ Yes ☐ No	
				☐ Yes ☐ No	
			☐ Yes ☐ No		

SECTION 10. CONTRACT ANALYSES (40 CFR 122.21(G)(12))

Contract Analyses	10.1	Were any of the analyses reported in Section 7 performed by a contract laboratory or consulting firm? ☒ Yes ☐ No → SKIP to Section 11.			
	10.2	Provide information for each contract laboratory or consulting firm below.			
			Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
	Name of laboratory/firm	Eurofins Lancaster Laboratories Environment Testing, LLC			
	Laboratory address	2425 New Holland Pike, Lancaster, PA			
	Phone number	(412) 525-0071			
	Pollutant(s) analyzed	VOCs, SVOCs, GRO/DRO, PCBs, Anions, Metals/Mercury, pH, free cyanide			

EPA Identification Number		NPDES Permit Number		Facility Name Quantum Frederick		OMB No. 2040-0004 Expires 07/31/2026	
SECTION 11. ADDITIONAL INFORMATION (40 CFR 122.21(G)(13))							
Additional Information	<u>11.1</u>	Has the NPDES permitting authority requested additional information? ☐ Yes ☒ No → SKIP to Section 12.					
	<u>11.2</u>	List the information requested and attach it to this application.					
	1.						4.
	2.						5.
	3.						6.
SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(A) AND (D))							
Checklist and Certification Statement	<u>12.1</u>	In Column 1 below, mark the sections of Form 2C that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to complete all sections or provide attachments.					
		Column 1		Column 2			
	☒	Section 1: Outfall Location		☒ w/ attachments			
	☐	Section 2: Line Drawing		☐ w/ line drawing		☐ w/ additional attachments	
	☐	Section 3: Average Flows and Treatment		☐ w/ attachments		☐ w/ list of each user of privately owned treatment works	
	☐	Section 4: Intermittent Flows		☐ w/ attachments			
	☐	Section 5: Production		☐ w/ attachments			
	☐	Section 6: Improvements		☐ w/ attachments		☐ w/ optional additional sheets describing any additional pollution control plans	
	☒	Section 7: Effluent and Intake Characteristics		☒ w/ request for a waiver and supporting information ☐ w/ small business exemption request ☒ w/ Table A ☒ w/ Table C ☒ w/ Table E		☐ w/ explanation for identical outfalls ☐ w/ other attachments ☒ w/ Table B ☒ w/ Table D ☒ w/ analytical results as an attachment	
	☐	Section 8: Used or Manufactured Toxics		☐ w/ attachments			
	☐	Section 9: Biological Toxicity Tests		☐ w/ attachments			
	☒	Section 10: Contract Analyses		☐ w/ attachments			
	☐	Section 11: Additional Information		☐ w/ attachments			
	☒	Section 12: Checklist and Certification Statement		☐ w/ attachments			

EPA Identification Number	NPDES Permit Number	Facility Name Quantum Frederick

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SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d)) (Continued)

Checklist and Certification Statement	12.2	Provide the following certification. (See instructions to determine the appropriate person to sign the application.)	
		Certification Statement <i>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</i>	
		Name (print or type first and last name) Joshua Mullis	Official title Project Manager
		Signature 	Date signed 6/20/2025

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
		Quantum Frederick	QM-R-255850

TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii))¹

TABLE 1. CONVENTIONAL POLLUTANT NON-CONVENTIONAL POLLUTANTS (BOD, COD, TOC, TSS, NH3-N, pH, Temperature, Flow)									
Pollutant	Waiver Requested (if applicable)	Units (specify)	Effluent				Intake (optional)		
			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses	
☒	Check here if you have applied to your NPDES permitting authority for a waiver for all of the pollutants listed on this table for the noted outfall.								
1. Biochemical oxygen demand (BOD5)	☐	Concentration							
		Mass							
2. Chemical oxygen demand (COD)	☐	Concentration							
		Mass							
3. Total organic carbon (TOC)	☐	Concentration							
		Mass							
4. Total suspended solids (TSS)	☐	Concentration							
		Mass							
5. Ammonia (as N)	☐	Concentration							
		Mass							
6. Flow	☐	Rate							
Temperature (winter)	☐	°C							
Temperature (summer)	☒	°C	19.3						
pH (minimum)	☒	Standard units	7.6						
pH (maximum)	☒	Standard units	7.6						

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
☐ Check here if you qualify as a small business per the instructions to Form 2C and, therefore, do not need to submit quantitative data for any of the organic toxic pollutants in Sections 2 through 5 of this table. Note, however, that you must still indicate in the appropriate column of this table if you believe any of the pollutants listed are present in your discharge.										
Section 1. Toxic Metals, Cyanide, and Total Phenols										
1.1 Antimony, total (7440-36-0)	☐	☐	☒	Concentration Mass	ug/L	< 0.20 U				
1.2 Arsenic, total (7440-38-2)	☐	☐	☒	Concentration Mass	ug/L	< 0.68 U				
1.3 Beryllium, total (7440-41-7)	☐	☐	☒	Concentration Mass	ug/L	< 0.12 U				
1.4 Cadmium, total (7440-43-9)	☒	☐	☒	Concentration Mass	ug/L	< 0.15 U				
1.5 Chromium, total (7440-47-3)	☐	☐	☒	Concentration Mass	ug/L	< 0.55 U				
1.6 Copper, total (7440-50-8)	☐	☐	☒	Concentration Mass	ug/L	< 0.85 U				
1.7 Lead, total (7439-92-1)	☒	☒	☐	Concentration Mass	ug/L	0.28				
1.8 Mercury, total (7439-97-6)	☐	☐	☒	Concentration Mass	ug/L	< 0.087 U				
1.9 Nickel, total (7440-02-0)	☒	☒	☐	Concentration Mass	ug/L	1.6				
1.10 Selenium, total (7782-49-2)	☐	☒	☐	Concentration Mass	ug/L	0.64 J				
1.11 Silver, total (7440-22-4)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) ¹										
Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
1.12 Thallium, total (7440-28-0)	☐	☐	☒	Concentration ug/L	< 0.13 U					
1.13 Zinc, total (7440-66-6)	☐	☒	☐	Concentration ug/L	240					
1.14 Cyanide, total (57-12-5)	☒	☐	☒	Concentration mg/L	< 0.005 U	free cyanide				
1.15 Phenols, total	☐	☐	☒	Concentration Mass						
Section 2. Organic Toxic Pollutants (GC/MS Fraction—Volatile Compounds)										
2.1 Acrolein (107-02-8)	☐	☐	☒	Concentration Mass						
2.2 Acrylonitrile (107-13-1)	☐	☐	☒	Concentration Mass						
2.3 Benzene (71-43-2)	☐	☐	☒	Concentration ug/L	< 0.1 U					
2.4 Bromoform (75-25-2)	☐	☐	☒	Concentration Mass						
2.5 Carbon tetrachloride (56-23-5)	☐	☐	☒	Concentration ug/L	< 0.1 U					
2.6 Chlorobenzene (108-90-7)	☐	☐	☒	Concentration ug/L	< 0.07 U					
2.7 Chlorodibromomethane (124-48-1)	☐	☐	☒	Concentration Mass						
2.8 Chloroethane (75-00-3)	☐	☐	☒	Concentration ug/L	< 0.1 U					

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
2.9 2-chloroethylvinyl ether (110-75-8)	☐	☐	☒	Concentration Mass						
2.10 Chloroform (67-66-3)	☐	☐	☒	Concentration Mass	ug/L	< 0.09 U				
2.11 Dichlorobromomethane (75-27-4)	☐	☐	☒	Concentration Mass						
2.12 1,1-dichloroethane (75-34-3)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				
2.13 1,2-dichloroethane (107-06-2)	☐	☐	☒	Concentration Mass	ug/L	< 0.07 U				
2.14 1,1-dichloroethylene (75-35-4)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				
2.15 1,2-dichloropropane (78-87-5)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				
2.16 1,3-dichloropropylene (542-75-6)	☐	☐	☒	Concentration Mass						
2.17 Ethylbenzene (100-41-4)	☐	☐	☒	Concentration Mass	ug/L	< 0.08 U				
2.18 Methyl bromide (74-83-9)	☐	☐	☒	Concentration Mass						
2.19 Methyl chloride (74-87-3)	☐	☐	☒	Concentration Mass						
2.20 Methylene chloride (75-09-2)	☐	☐	☒	Concentration Mass	ug/L	< 0.2 U				
2.21 1,1,2,2- tetrachloroethane (79-34-5)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) ¹										
Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
2.22 Tetrachloroethylene (127-18-4)	☒	☒	☐	Concentration Mass	0.69					
2.23 Toluene (108-88-3)	☐	☐	☒	Concentration Mass	< 0.08 U					
2.24 1,2-trans-dichloroethylene (156-60-5)	☐	☐	☒	Concentration Mass						
2.25 1,1,1-trichloroethane (71-55-6)	☐	☐	☒	Concentration Mass	< 0.08 U					
2.26 1,1,2-trichloroethane (79-00-5)	☐	☐	☒	Concentration Mass	< 0.08 U					
2.27 Trichloroethylene (79-01-6)	☐	☐	☒	Concentration Mass						
2.28 Vinyl chloride (75-01-4)	☐	☐	☒	Concentration Mass	< 0.1 U					
Section 3. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds)										
3.1 2-chlorophenol (95-57-8)	☐	☐	☒	Concentration Mass						
3.2 2,4-dichlorophenol (120-83-2)	☐	☐	☒	Concentration Mass						
3.3 2,4-dimethylphenol (105-67-9)	☐	☐	☒	Concentration Mass						
3.4 4,6-dinitro-o-cresol (534-52-1)	☐	☐	☒	Concentration Mass						
3.5 2,4-dinitrophenol (51-28-5)	☐	☐	☒	Concentration Mass						

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) ¹										
Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
3.6 2-nitrophenol (88-75-5)	☐	☐	☒	Concentration Mass						
3.7 4-nitrophenol (100-02-7)	☐	☐	☒	Concentration Mass						
3.8 p-chloro-m-cresol (59-50-7)	☐	☐	☒	Concentration Mass						
3.9 Pentachlorophenol (87-86-5)	☐	☐	☒	Concentration Mass						
3.10 Phenol (108-95-2)	☐	☐	☒	Concentration Mass						
3.11 2,4,6-trichlorophenol (88-05-2)	☐	☐	☒	Concentration Mass						
Section 4. Organic Toxic Pollutants (GC/MS Fraction—Base /Neutral Compounds)										
4.1 Acenaphthene (83-32-9)	☒	☐	☒	Concentration Mass	ug/L 	< 0.011 U 				
4.2 Acenaphthylene (208-96-8)	☒	☐	☒	Concentration Mass	ug/L 	< 0.011 U 				
4.3 Anthracene (120-12-7)	☒	☐	☒	Concentration Mass	ug/L 	< 0.011 U 				
4.4 Benzidine (92-87-5)	☐	☐	☒	Concentration Mass						
4.5 Benzo (a) anthracene (56-55-3)	☒	☐	☒	Concentration Mass	ug/L 	< 0.011 U 				
4.6 Benzo (a) pyrene (50-32-8)	☒	☐	☒	Concentration Mass	ug/L 	< 0.011 U 				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.7 3,4-benzofluoranthene (205-99-2)	☐	☐	☒	Concentration Mass						
4.8 Benzo (ghi) perylene (191-24-2)	☐	☐	☒	Concentration Mass	ug/L	< 0.011 U				
4.9 Benzo (k) fluoranthene (207-08-9)	☐	☐	☒	Concentration Mass	ug/L	< 0.011 U				
4.10 Bis (2-chloroethoxy) methane (111-91-1)	☐	☐	☒	Concentration Mass						
4.11 Bis (2-chloroethyl) ether (111-44-4)	☐	☐	☒	Concentration Mass						
4.12 Bis (2-chloroisopropyl) ether (102-80-1)	☐	☐	☒	Concentration Mass						
4.13 Bis (2-ethylhexyl) phthalate (117-81-7)	☐	☐	☒	Concentration Mass						
4.14 4-bromophenyl phenyl ether (101-55-3)	☐	☐	☒	Concentration Mass						
4.15 Butyl benzyl phthalate (85-68-7)	☐	☐	☒	Concentration Mass						
4.16 2-chloronaphthalene (91-58-7)	☐	☐	☒	Concentration Mass						
4.17 4-chlorophenyl phenyl ether (7005-72-3)	☐	☐	☒	Concentration Mass						
4.18 Chrysene (218-01-9)	☒	☒	☐	Concentration Mass	ug/L	0.027 J				
4.19 Dibenzo (a,h) anthracene (53-70-3)	☐	☐	☒	Concentration Mass	ug/L	< 0.021 U				

EPA Identification Number	NPDES Permit Number	Facility Name Quantum Frederick	Outfall Number QM-R-255850	OMB No. 2040-0004 Expires 07/31/2026

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent							
4.20 1,2-dichlorobenzene (95-50-1)	☐	☐	☒	Concentration ug/L	Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.21 1,3-dichlorobenzene (541-73-1)	☐	☐	☒	Concentration ug/L	< 0.07 U					
4.22 1,4-dichlorobenzene (106-46-7)	☐	☐	☒	Concentration ug/L	< 0.07 U					
4.23 3,3-dichlorobenzidine (91-94-1)	☐	☐	☒	Concentration Mass						
4.24 Diethyl phthalate (84-66-2)	☐	☐	☒	Concentration Mass						
4.25 Dimethyl phthalate (131-11-3)	☐	☐	☒	Concentration Mass						
4.26 Di-n-butyl phthalate (84-74-2)	☐	☐	☒	Concentration Mass						
4.27 2,4-dinitrotoluene (121-14-2)	☐	☐	☒	Concentration Mass						
4.28 2,6-dinitrotoluene (606-20-2)	☐	☐	☒	Concentration Mass						
4.29 Di-n-octyl phthalate (117-84-0)	☐	☐	☒	Concentration Mass						
4.30 1,2-Diphenylhydrazine (as azobenzene) (122-66-7)	☐	☐	☒	Concentration Mass						
4.31 Fluoranthene (206-44-0)	☐	☐	☒	Concentration ug/L	< 0.025 U					
4.32 Fluorene (86-73-7)	☐	☐	☒	Concentration ug/L	< 0.011 U					

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number	OMB No. 2040-0004 Expires 07/31/2026
		Quantum Frederick	QM-R-255850	

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.33 Hexachlorobenzene (118-74-1)	☐	☐	☒	Concentration Mass						
4.34 Hexachlorobutadiene (87-68-3)	☐	☐	☒	Concentration Mass						
4.35 Hexachlorocyclopentadiene (77-47-4)	☐	☐	☒	Concentration Mass						
4.36 Hexachloroethane (67-72-1)	☐	☐	☒	Concentration Mass						
4.37 Indeno (1,2,3-cd) pyrene (193-39-5)	☐	☐	☒	Concentration Mass	ug/L	< 0.021 U				
4.38 Isophorone (78-59-1)	☐	☐	☒	Concentration Mass						
4.39 Naphthalene (91-20-3)	☒	☐	☒	Concentration Mass	ug/L	< 0.073 U				
4.40 Nitrobenzene (98-95-3)	☐	☐	☒	Concentration Mass						
4.41 N-nitrosodimethylamine (62-75-9)	☐	☐	☒	Concentration Mass						
4.42 N-nitrosodi-n-propylamine (621-64-7)	☐	☐	☒	Concentration Mass						
4.43 N-nitrosodiphenylamine (86-30-6)	☐	☐	☒	Concentration Mass						
4.44 Phenanthrene (85-01-8)	☐	☐	☒	Concentration Mass	ug/L	< 0.032 U				
4.45 Pyrene (129-00-0)	☐	☐	☒	Concentration Mass	ug/L	< 0.022 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
		Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses		
4.46 1,2,4-trichlorobenzene (120-82-1)	☐	☐	☒	Concentration	ug/L	< 0.07 U					
Section 5. Organic Toxic Pollutants (GC/MS Fraction—Pesticides)											
5.1 Aldrin (309-00-2)	☐	☐	☒	Concentration							
5.2 α -BHC (319-84-6)	☐	☐	☒	Concentration							
5.3 β -BHC (319-85-7)	☐	☐	☒	Concentration							
5.4 γ -BHC (58-89-9)	☐	☐	☒	Concentration							
5.5 δ -BHC (319-86-8)	☐	☐	☒	Concentration							
5.6 Chlordane (57-74-9)	☐	☐	☒	Concentration							
5.7 4,4'-DDT (50-29-3)	☐	☐	☒	Concentration							
5.8 4,4'-DDE (72-55-9)	☐	☐	☒	Concentration							
5.9 4,4'-DDD (72-54-8)	☐	☐	☒	Concentration							
5.10 Dieldrin (60-57-1)	☐	☐	☒	Concentration							
5.11 α -endosulfan (115-29-7)	☐	☐	☒	Concentration							

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
5.12 β-endosulfan (115-29-7)	☐	☐	☒	Concentration Mass						
5.13 Endosulfan sulfate (1031-07-8)	☐	☐	☒	Concentration Mass						
5.14 Endrin (72-20-8)	☐	☐	☒	Concentration Mass						
5.15 Endrin aldehyde (7421-93-4)	☐	☐	☒	Concentration Mass						
5.16 Heptachlor (76-44-8)	☐	☐	☒	Concentration Mass						
5.17 Heptachlor epoxide (1024-57-3)	☐	☐	☒	Concentration Mass						
5.18 PCB-1242 (53469-21-9)	☒	☐	☒	Concentration Mass	ug/L < 0.0077 U					
5.19 PCB-1254 (11097-69-1)	☒	☐	☒	Concentration Mass	ug/L < 0.0048 U					
5.20 PCB-1221 (11104-28-2)	☒	☐	☒	Concentration Mass	ug/L < 0.0077 U					
5.21 PCB-1232 (11141-16-5)	☒	☐	☒	Concentration Mass	ug/L < 0.0077 U					
5.22 PCB-1248 (12672-29-6)	☒	☐	☒	Concentration Mass	ug/L < 0.0077 U					
5.23 PCB-1260 (11096-82-5)	☒	☐	☒	Concentration Mass	ug/L < 0.0048 U					
5.24 PCB-1016 (12674-11-2)	☒	☐	☒	Concentration Mass	ug/L < 0.0077 U					

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) ¹										
Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
5.25 Toxaphene (8001-35-2)	☐	☐	☒	Concentration						
				Mass						

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

	Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
☐ Check here if you believe all pollutants in Table C to be present in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for each pollutant.										
☐ Check here if you believe all pollutants in Table C to be absent in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for each pollutant.										
1.	Bromide (24959-67-9)	☐	☒	Concentration Mass						
2.	Chlorine, total residual	☐	☒	Concentration Mass						
3.	Color	☐	☒	Concentration Mass						
4.	Fecal coliform	☐	☒	Concentration Mass						
5.	Fluoride (16984-48-8)	☒	☐	Concentration Mass	mg/L	2.9				
6	Nitrate-nitrite	☐	☒	Concentration Mass						
7.	Nitrogen, total organic (as N)	☐	☒	Concentration Mass						
8.	Oil and grease	☐	☒	Concentration Mass						
9.	Phosphorus (as P), total (7723-14-0)	☐	☒	Concentration Mass						
10.	Sulfate (as SO ₄) (14808-79-8)	☐	☒	Concentration Mass						
11.	Sulfide (as S)	☐	☒	Concentration Mass						

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
12. Sulfite (as SO ₃) (14265-45-3)	☐	☒	Concentration Mass						
13. Surfactants	☐	☒	Concentration Mass						
14. Aluminum, total (7429-90-5)	☒	☐	Concentration Mass	130					
15. Barium, total (7440-39-3)	☒	☐	Concentration Mass	27					
16. Boron, total (7440-42-8)	☐	☒	Concentration Mass						
17. Cobalt, total (7440-48-4)	☒	☐	Concentration Mass	0.49 J					
18. Iron, total (7439-89-6)	☒	☐	Concentration Mass	450					
19. Magnesium, total (7439-95-4)	☒	☐	Concentration Mass	17000					
20. Molybdenum, total (7439-98-7)	☐	☒	Concentration Mass						
21. Manganese, total (7439-96-5)	☒	☐	Concentration Mass	150					
22. Tin, total (7440-31-5)	☐	☒	Concentration Mass						
23. Titanium, total (7440-32-6)	☐	☒	Concentration Mass						

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
24. Radioactivity									
Alpha, total	☐	☒	Concentration Mass						
Beta, total	☐	☒	Concentration Mass						
Radium, total	☐	☒	Concentration Mass						
Radium 226, total	☐	☒	Concentration Mass						

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number	NPDES Permit Number	Facility Name Quantum Frederick	Outfall Number QM-R-255850	OMB No. 2040-0004 Expires 07/31/2026

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹				
Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
1. Asbestos	☐	☒		
2. Acetaldehyde	☐	☒		
3. Allyl alcohol	☐	☒		
4. Allyl chloride	☐	☒		
5. Amyl acetate	☐	☒		
6. Aniline	☐	☒		
7. Benzotrile	☐	☒		
8. Benzyl chloride	☐	☒		
9. Butyl acetate	☐	☒		
10. Butylamine	☐	☒		
11. Captan	☐	☒		
12. Carbaryl	☐	☒		
13. Carbofuran	☐	☒		
14. Carbon disulfide	☐	☒		
15. Chlorpyrifos	☐	☒		
16. Coumaphos	☐	☒		
17. Cresol	☐	☒		
18. Crotonaldehyde	☐	☒		
19. Cyclohexane	☐	☒		0.1 ug/L U

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹				
Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
20. 2,4-D (2,4-dichlorophenoxyacetic acid)	☐	☒		
21. Diazinon	☐	☒		
22. Dicamba	☐	☒		
23. Dichlobenil	☐	☒		
24. Diclhone	☐	☒		
25. 2,2-dichloropropionic acid	☐	☒		
26. Dichlorvos	☐	☒		
27. Diethyl amine	☐	☒		
28. Dimethyl amine	☐	☒		
29. Dintrobenezene	☐	☒		
30. Diquat	☐	☒		
31. Disulfoton	☐	☒		
32. Diuron	☐	☒		
33. Epichlorohydrin	☐	☒		
34. Ethion	☐	☒		
35. Ethylene diamine	☐	☒		
36. Ethylene dibromide	☐	☒		
37. Formaldehyde	☐	☒		
38. Furfural	☐	☒		

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹				
Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
39. Guthion	☐	☒		
40. Isoprene	☐	☒		
41. Isopropanolamine	☐	☒		
42. Kelthane	☐	☒		
43. Kepone	☐	☒		
44. Malathion	☐	☒		
45. Mercaptodimethur	☐	☒		
46. Methoxychlor	☐	☒		
47. Methyl mercaptan	☐	☒		
48. Methyl methacrylate	☐	☒		
49. Methyl parathion	☐	☒		
50. Mevinphos	☐	☒		
51. Mexacarbate	☐	☒		
52. Monoethyl amine	☐	☒		
53. Monomethyl amine	☐	☒		
54. Naled	☐	☒		
55. Naphthenic acid	☐	☒		
56. Nitrotoluene	☐	☒		
57. Parathion	☐	☒		

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
58. Phenolsulfonate	☐	☒		
59. Phosgene	☐	☒		
60. Propargite	☐	☒		
61. Propylene oxide	☐	☒		
62. Pyrethrins	☐	☒		
63. Quinoline	☐	☒		
64. Resorcinol	☐	☒		
65. Strontium	☐	☒		
66. Strychnine	☐	☒		
67. Styrene	☐	☒		< 0.07 ug/L U
68. 2,4,5-T (2,4,5-trichlorophenoxyacetic acid)	☐	☒		
69. TDE (tetrachlorodiphenyl ethane)	☐	☒		
70. 2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic acid]	☐	☒		
71. Trichlorofon	☐	☒		
72. Triethanolamine	☐	☒		
73. Triethylamine	☐	☒		
74. Trimethylamine	☐	☒		
75. Uranium	☐	☐		
76. Vanadium	☐	☒		

EPA Identification Number	NPDES Permit Number	Facility Name Quantum Frederick	Outfall Number QM-R-255850

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹				
Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
77. Vinyl acetate	☐	☒		
78. Xylene	☐	☒		
79. Xylenol	☐	☒		
80. Zirconium	☐	☒		

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE E. 2,3,7,8 TETRACHLORODIBENZO P DIOXIN (2,3,7,8 TCDD) (40 CFR 122.21(g)(7)(viii))				
Pollutant	TCDD Congeners Used or Manufactured	Presence or Absence (check one)		Results of Screening Procedure
		Believed Present	Believed Absent	
2,3,7,8-TCDD	☐	☐	☒	

EPA Identification Number		NPDES Permit Number		Facility Name Quantum Frederick		OMB No. 2040-0004 Expires 07/31/2026	
Form 2C NPDES			U.S. Environmental Protection Agency Application for NPDES Permit to Discharge Wastewater EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURE OPERATIONS				
SECTION 1. OUTFALL LOCATION (40 CFR 122.21(G)(1))							
Outfall Location	<u>1.1</u>	Provide information on each of the facility's outfalls in the table below.					
		Outfall Number	Receiving Water Name	Latitude		Longitude	
		QM-R-266323	Ground surface in EC	Multiple - see map		Multiple - see map	
SECTION 2. LINE DRAWING (40 CFR 122.21(G)(2))							
Line Drawing	<u>2.1</u>	Have you attached a line drawing to this application that shows the water flow through your facility with a water balance? (See instructions for drawing requirements. See Exhibit 2C-1 at end of instructions for example.) ☐ Yes					
SECTION 3. AVERAGE FLOWS AND TREATMENT (40 CFR 122.21(G)(3))							
Average Flows and Treatment	<u>3.1</u>	For each outfall identified under Item 1.1, provide average flow and treatment information. Add additional sheets if necessary.					
		Outfall Number <u>R-266323</u>					
		Operations Contributing to Flow					
		Operation			Average Flow		
		Quantum Place South EMP-2			mgd		
					mgd		
					mgd		
					mgd		
		Treatment Units					
		Description (include size, flow rate through each treatment unit, retention time, etc.)		Code from Exhibit 2C-2		Final Disposal of Solid or Liquid Wastes Other Than by Discharge	

EPA Identification Number		NPDES Permit Number		Facility Name Quantum Frederick		OMB No. 2040-0004 Expires 07/31/2026			
Average Flows and Treatment Continued	3.1 cont.	**Outfall Number** _____							
		Operations Contributing to Flow							
		Operation			Average Flow				
					mgd				
					mgd				
					mgd				
					mgd				
		Treatment Units							
		Description (include size, flow rate through each treatment unit, retention time, etc.)			Code from Exhibit 2C-2		Final Disposal of Solid or Liquid Wastes Other Than by Discharge		
		Outfall Number _____							
		Operations Contributing to Flow							
		Operation			Average Flow				
					mgd				
					mgd				
					mgd				
					mgd				
		Treatment Units							
		Description (include size, flow rate through each treatment unit, retention time, etc.)			Code from Exhibit 2C-2		Final Disposal of Solid or Liquid Wastes Other Than by Discharge		
		System Users	3.2	Are you applying for an NPDES permit to operate a privately owned treatment works? ☐ Yes ☒ No → SKIP to Section 4.					
			3.3	Have you attached a list that identifies each user of the treatment works? ☐ Yes					

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SECTION 4. INTERMITTENT FLOWS (40 CFR 122.21(G)(4))								
Intermittent Flows	4.1	Except for storm runoff, leaks, or spills, are any discharges described in Sections 1 and 3 intermittent or seasonal? ☐ Yes ☒ No → SKIP to Section 5.						
	4.2	Provide information on intermittent or seasonal flows for each applicable outfall. Attach additional pages, if necessary.						
		Outfall Number	Operation (list)	Frequency		Flow Rate		Duration
				Average Days/Week	Average Months/Year	Long-Term Average	Maximum Daily	
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
SECTION 5. PRODUCTION (40 CFR 122.21(G)(5))								
Applicable ELGs	5.1	Do any effluent limitation guidelines (ELGs) promulgated by EPA under Section 304 of the CWA apply to your facility? ☐ Yes ☒ No → SKIP to Section 6.						
	5.2	Provide the following information on applicable ELGs.						
		ELG Category	ELG Subcategory				Regulatory Citation	
Production-Based Limitations	5.3	Are any of the applicable ELGs expressed in terms of production (or other measure of operation)? ☐ Yes ☒ No → SKIP to Section 6.						
	5.4	Provide an actual measure of daily production expressed in terms and units of applicable ELGs.						
		Outfall Number	Operation, Product, or Material			Quantity per Day	Unit of Measure	

EPA Identification Number	NPDES Permit Number	Facility Name Quantum Frederick	OMB No. 2040-0004 Expires 07/31/2026	

	5.5	Are you requesting alternative limits based on an anticipated increase in the actual production during the next permit term? (Consult with your NPDES permitting authority to determine what information needs to be submitted and when.)
		☐ Yes ☐ No

SECTION 6. IMPROVEMENTS (40 CFR 122.21(G)(6))

Upgrades and Improvements	6.1	Are you presently required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application?																						
		☐ Yes ☒ No → SKIP to Item 6.3.																						
	6.2	Briefly identify each applicable project in the table below.																						
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th rowspan="2" style="width: 45%;">Brief Identification and Description of Project</th> <th rowspan="2" style="width: 15%;">Affected Outfalls (list outfall number)</th> <th rowspan="2" style="width: 20%;">Source(s) of Discharge</th> <th colspan="2" style="width: 20%;">Final Compliance Dates</th> </tr> <tr> <th style="width: 10%;">Required</th> <th style="width: 10%;">Projected</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>		Brief Identification and Description of Project	Affected Outfalls (list outfall number)	Source(s) of Discharge	Final Compliance Dates		Required	Projected															
	Brief Identification and Description of Project	Affected Outfalls (list outfall number)				Source(s) of Discharge	Final Compliance Dates																	
Required			Projected																					
6.3	Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? <i>(optional item)</i>																							
	☐ Yes ☐ No ☒ Not applicable																							

SECTION 7. EFFLUENT AND INTAKE CHARACTERISTICS (40 CFR 122.21(G)(7))

Effluent and Intake Characteristics	See the instructions to determine the pollutants and parameters you are required to monitor and, in turn, the tables you must complete. Not all applicants need to complete each table.	
	Table A. Conventional and Non-Conventional Pollutants	
	7.1	Are you requesting a waiver from your NPDES permitting authority for any Table A pollutants for any of your outfalls?
		☐ Yes ☒ No → SKIP to Item 7.3.
	7.2	If yes, indicate the applicable outfalls below or check the appropriate box to indicate that you are requesting a waiver for all outfalls. Attach waiver request and other required information to the application.
		Outfall number _____ Outfall number _____ Outfall number _____
		☐ I am requesting a waiver for some pollutants at all outfalls. ☐ I am requesting a waiver for all pollutants at all outfalls → SKIP to Item 7.4.
	7.3	Have you completed monitoring for all Table A pollutants at each of your outfalls for which a waiver has not been requested and attached the results to this application package?
	☐ Yes	
Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants		
7.4	Do any of the facility's processes that contribute wastewater fall into one or more of the primary industry categories listed in Exhibit 2C-3? (See end of instructions for exhibit.)	
	☐ Yes ☒ No → SKIP to Item 7.8.	
7.5	Have you checked "Testing Required" for all toxic metals, cyanide, and total phenols in Section 1 of Table B?	
	☐ Yes	

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Effluent and Intake Characteristics Continued	7.6	List the applicable primary industry categories and check the boxes indicating the required GC/MS fraction(s) identified in Exhibit 2C-3. <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">Primary Industry Category</th> <th style="width: 50%;">Required GC/MS Fraction(s) (check applicable boxes)</th> </tr> <tr> <td style="height: 30px;"></td> <td> ☐ Volatile ☐ Acid ☐ Base/neutral ☐ Pesticide </td> </tr> <tr> <td style="height: 30px;"></td> <td> ☐ Volatile ☐ Acid ☐ Base/neutral ☐ Pesticide </td> </tr> <tr> <td style="height: 30px;"></td> <td> ☐ Volatile ☐ Acid ☐ Base/neutral ☐ Pesticide </td> </tr> </table>	Primary Industry Category	Required GC/MS Fraction(s) (check applicable boxes)		☐ Volatile ☐ Acid ☐ Base/neutral ☐ Pesticide		☐ Volatile ☐ Acid ☐ Base/neutral ☐ Pesticide		☐ Volatile ☐ Acid ☐ Base/neutral ☐ Pesticide
	Primary Industry Category	Required GC/MS Fraction(s) (check applicable boxes)								
		☐ Volatile ☐ Acid ☐ Base/neutral ☐ Pesticide								
		☐ Volatile ☐ Acid ☐ Base/neutral ☐ Pesticide								
		☐ Volatile ☐ Acid ☐ Base/neutral ☐ Pesticide								
7.7	Have you checked "Testing Required" for all required pollutants in Sections 2 through 5 of Table B for each of the GC/MS fractions checked in Item 7.6? ☐ Yes									
7.8	Have you checked "Believed Present" or "Believed Absent" for all pollutants listed in Sections 1 through 5 of Table B where testing is not required? ☐ Yes									
7.9	Have you provided (1) quantitative data for those Section 1, Table B, pollutants for which you have indicated testing is required or (2) quantitative data or other required information for those Section 1, Table B, pollutants that you have indicated are "Believed Present" in your discharge? ☐ Yes									
7.10	Does the applicant qualify for a small business exemption under the criteria specified in the instructions? ☐ Yes → Note that you qualify at the top of Table B, then SKIP to Item 7.12. ☒ No									
7.11	Have you provided (1) quantitative data for those Sections 2 through 5, Table B, pollutants for which you have determined testing is required or (2) quantitative data or an explanation for those Sections 2 through 5, Table B, pollutants you have indicated are "Believed Present" in your discharge? ☒ Yes									
Table C. Certain Conventional and Non-Conventional Pollutants										
7.12	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table C for all outfalls? ☒ Yes									
7.13	Have you completed Table C by providing quantitative data for those pollutants that are limited either directly or indirectly in an ELG? You must provide quantitative data even if the pollutant is "Believed Absent." ☐ Yes ☒ Not applicable									
7.14	Have you completed Table C by providing quantitative data or an explanation for those pollutants for which you have indicated "Believed Present"? ☒ Yes									
Table D. Certain Hazardous Substances and Asbestos										
7.15	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table D for all outfalls? ☒ Yes									
7.16	Have you completed Table D by (1) describing the reasons the applicable pollutants are expected to be discharged and (2) providing quantitative data, if available? ☒ Yes ☐ No									
Table E. 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (2,3,7,8-TCDD)										
7.17	Does the facility use or manufacture one or more of the 2,3,7,8-TCDD congeners listed in the instructions, or do you know or have reason to believe that TCDD is or may be present in the effluent? ☐ Yes → Complete Table E. ☒ No → SKIP to Section 8.									
7.18	Have you completed Table E by reporting <i>qualitative</i> data for TCDD? ☐ Yes									

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SECTION 8. USED OR MANUFACTURED TOXICS (40 CFR 122.21(G)(9))

Used or Manufactured Toxics	8.1	Is any pollutant listed in Table B a substance or a component of a substance used or manufactured at your facility as an intermediate or final product or byproduct? ☐ Yes ☒ No → SKIP to Section 9.		
	8.2	List the pollutants below. Attach additional sheets, if necessary.		
	1.	4.	7.	
	2.	5.	8.	
	3.	6.	9.	

SECTION 9. BIOLOGICAL TOXICITY TESTS (40 CFR 122.21(G)(11))

Biological Toxicity Tests	9.1	Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made within the last three years on (1) any of your discharges or (2) a receiving water in relation to your discharge? ☐ Yes ☒ No → SKIP to Section 10.		
	9.2	Identify the tests and their purposes below.		
	Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?	Date Submitted
			☐ Yes ☐ No	
			☐ Yes ☐ No	
			☐ Yes ☐ No	

SECTION 10. CONTRACT ANALYSES (40 CFR 122.21(G)(12))

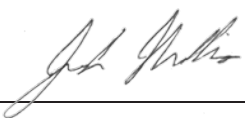
Contract Analyses	10.1	Were any of the analyses reported in Section 7 performed by a contract laboratory or consulting firm? ☒ Yes ☐ No → SKIP to Section 11.		
	10.2	Provide information for each contract laboratory or consulting firm below.		
		Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
	Name of laboratory/firm	Eurofins Lancaster Laboratories Environment Testing, LLC		
	Laboratory address	2425 New Holland Pike, Lancaster, PA		
	Phone number	(412) 525-0071		
	Pollutant(s) analyzed	VOCs, SVOCs, GRO/DRO, PCBs, Anions, Metals/Mercury, pH, free cyanide		

EPA Identification Number		NPDES Permit Number		Facility Name Quantum Frederick		OMB No. 2040-0004 Expires 07/31/2026	
SECTION 11. ADDITIONAL INFORMATION (40 CFR 122.21(G)(13))							
Additional Information	<u>11.1</u>	Has the NPDES permitting authority requested additional information? ☐ Yes ☒ No → SKIP to Section 12.					
	<u>11.2</u>	List the information requested and attach it to this application.					
	1.						4.
	2.						5.
	3.						6.
SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(A) AND (D))							
Checklist and Certification Statement	<u>12.1</u>	In Column 1 below, mark the sections of Form 2C that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to complete all sections or provide attachments.					
		Column 1		Column 2			
	☒	Section 1: Outfall Location		☒ w/ attachments			
	☐	Section 2: Line Drawing		☐ w/ line drawing		☐ w/ additional attachments	
	☐	Section 3: Average Flows and Treatment		☐ w/ attachments		☐ w/ list of each user of privately owned treatment works	
	☐	Section 4: Intermittent Flows		☐ w/ attachments			
	☐	Section 5: Production		☐ w/ attachments			
	☐	Section 6: Improvements		☐ w/ attachments		☐ w/ optional additional sheets describing any additional pollution control plans	
	☒	Section 7: Effluent and Intake Characteristics		☒ w/ request for a waiver and supporting information ☐ w/ small business exemption request ☒ w/ Table A ☒ w/ Table C ☒ w/ Table E		☐ w/ explanation for identical outfalls ☐ w/ other attachments ☒ w/ Table B ☒ w/ Table D ☒ w/ analytical results as an attachment	
	☐	Section 8: Used or Manufactured Toxics		☐ w/ attachments			
	☐	Section 9: Biological Toxicity Tests		☐ w/ attachments			
	☒	Section 10: Contract Analyses		☐ w/ attachments			
	☐	Section 11: Additional Information		☐ w/ attachments			
	☒	Section 12: Checklist and Certification Statement		☐ w/ attachments			

EPA Identification Number	NPDES Permit Number	Facility Name
		Quantum Frederick

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SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d)) (Continued)

Checklist and Certification Statement	12.2	Provide the following certification. (See instructions to determine the appropriate person to sign the application.)	
		Certification Statement <i>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</i>	
		Name (print or type first and last name)	Official title
		Joshua Mullis	Project Manager
		Signature	Date signed
			6/20/2025

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
		Quantum Frederick	QM-R-266323

TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii))¹

TABLE 1. CONVENTIONAL POLLUTANT NON-CONVENTIONAL POLLUTANTS (BOD, COD, TOC, TSS, NH3-N, pH, Temperature, Flow)									
Pollutant	Waiver Requested (if applicable)	Units (specify)	Effluent				Intake (optional)		
			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses	
☒	Check here if you have applied to your NPDES permitting authority for a waiver for all of the pollutants listed on this table for the noted outfall.								
1. Biochemical oxygen demand (BOD5)	☐	Concentration							
		Mass							
2. Chemical oxygen demand (COD)	☐	Concentration							
		Mass							
3. Total organic carbon (TOC)	☐	Concentration							
		Mass							
4. Total suspended solids (TSS)	☐	Concentration							
		Mass							
5. Ammonia (as N)	☐	Concentration							
		Mass							
6. Flow	☐	Rate							
Temperature (winter)	☐	°C							
Temperature (summer)	☒	°C	20.8						
pH (minimum)	☒	Standard units	7.8						
pH (maximum)	☒	Standard units	7.8						

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
☐ Check here if you qualify as a small business per the instructions to Form 2C and, therefore, do not need to submit quantitative data for any of the organic toxic pollutants in Sections 2 through 5 of this table. Note, however, that you must still indicate in the appropriate column of this table if you believe any of the pollutants listed are present in your discharge.										
Section 1. Toxic Metals, Cyanide, and Total Phenols										
1.1 Antimony, total (7440-36-0)	☐	☐	☒	Concentration Mass	ug/L	0.20 U				
1.2 Arsenic, total (7440-38-2)	☐	☐	☒	Concentration Mass	ug/L	0.68 U				
1.3 Beryllium, total (7440-41-7)	☐	☐	☒	Concentration Mass	ug/L	< 0.12 U				
1.4 Cadmium, total (7440-43-9)	☒	☐	☒	Concentration Mass	ug/L	< 0.15 U				
1.5 Chromium, total (7440-47-3)	☒	☐	☒	Concentration Mass	ug/L	0.55 U				
1.6 Copper, total (7440-50-8)	☐	☒	☐	Concentration Mass	ug/L	0.91 J				
1.7 Lead, total (7439-92-1)	☒	☐	☒	Concentration Mass	ug/L	<0.12 U				
1.8 Mercury, total (7439-97-6)	☐	☐	☒	Concentration Mass	ug/L	< 0.087 U				
1.9 Nickel, total (7440-02-0)	☒	☒	☐	Concentration Mass	ug/L	1.9				
1.10 Selenium, total (7782-49-2)	☐	☒	☐	Concentration Mass	ug/L	0.83 J				
1.11 Silver, total (7440-22-4)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
1.12 Thallium, total (7440-28-0)	☐	☐	☒	Concentration Mass	ug/L	< 0.13 U				
1.13 Zinc, total (7440-66-6)	☐	☒	☐	Concentration Mass	ug/L	140				
1.14 Cyanide, total (57-12-5)	☒	☐	☒	Concentration Mass	mg/L	< 0.005 U free cyanide				
1.15 Phenols, total	☐	☐	☒	Concentration Mass						
Section 2. Organic Toxic Pollutants (GC/MS Fraction—Volatile Compounds)										
2.1 Acrolein (107-02-8)	☐	☐	☒	Concentration Mass						
2.2 Acrylonitrile (107-13-1)	☐	☐	☒	Concentration Mass						
2.3 Benzene (71-43-2)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				
2.4 Bromoform (75-25-2)	☐	☐	☒	Concentration Mass						
2.5 Carbon tetrachloride (56-23-5)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				
2.6 Chlorobenzene (108-90-7)	☐	☐	☒	Concentration Mass	ug/L	< 0.07 U				
2.7 Chlorodibromomethane (124-48-1)	☐	☐	☒	Concentration Mass						
2.8 Chloroethane (75-00-3)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number	OMB No. 2040-0004 Expires 07/31/2026
		Quantum Frederick	QM-R-266323	

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
2.9 2-chloroethylvinyl ether (110-75-8)	☐	☐	☒	Concentration Mass						
2.10 Chloroform (67-66-3)	☐	☐	☒	Concentration Mass	ug/L	< 0.09 U				
2.11 Dichlorobromomethane (75-27-4)	☐	☐	☒	Concentration Mass						
2.12 1,1-dichloroethane (75-34-3)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				
2.13 1,2-dichloroethane (107-06-2)	☐	☐	☒	Concentration Mass	ug/L	< 0.07 U				
2.14 1,1-dichloroethylene (75-35-4)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				
2.15 1,2-dichloropropane (78-87-5)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				
2.16 1,3-dichloropropylene (542-75-6)	☐	☐	☒	Concentration Mass						
2.17 Ethylbenzene (100-41-4)	☐	☐	☒	Concentration Mass	ug/L	< 0.08 U				
2.18 Methyl bromide (74-83-9)	☐	☐	☒	Concentration Mass						
2.19 Methyl chloride (74-87-3)	☐	☐	☒	Concentration Mass						
2.20 Methylene chloride (75-09-2)	☐	☐	☒	Concentration Mass	ug/L	< 0.2 U				
2.21 1,1,2,2- tetrachloroethane (79-34-5)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
2.22 Tetrachloroethylene (127-18-4)	☒	☒	☐	Concentration Mass	0.55					
2.23 Toluene (108-88-3)	☐	☐	☒	Concentration Mass	< 0.08 U					
2.24 1,2-trans-dichloroethylene (156-60-5)	☐	☐	☒	Concentration Mass						
2.25 1,1,1-trichloroethane (71-55-6)	☐	☐	☒	Concentration Mass	< 0.08 U					
2.26 1,1,2-trichloroethane (79-00-5)	☐	☐	☒	Concentration Mass	< 0.08 U					
2.27 Trichloroethylene (79-01-6)	☐	☐	☒	Concentration Mass						
2.28 Vinyl chloride (75-01-4)	☐	☐	☒	Concentration Mass	< 0.1 U					
Section 3. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds)										
3.1 2-chlorophenol (95-57-8)	☐	☐	☒	Concentration Mass						
3.2 2,4-dichlorophenol (120-83-2)	☐	☐	☒	Concentration Mass						
3.3 2,4-dimethylphenol (105-67-9)	☐	☐	☒	Concentration Mass						
3.4 4,6-dinitro-o-cresol (534-52-1)	☐	☐	☒	Concentration Mass						
3.5 2,4-dinitrophenol (51-28-5)	☐	☐	☒	Concentration Mass						

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
3.6 2-nitrophenol (88-75-5)	☐	☐	☒	Concentration Mass						
3.7 4-nitrophenol (100-02-7)	☐	☐	☒	Concentration Mass						
3.8 p-chloro-m-cresol (59-50-7)	☐	☐	☒	Concentration Mass						
3.9 Pentachlorophenol (87-86-5)	☐	☐	☒	Concentration Mass						
3.10 Phenol (108-95-2)	☐	☐	☒	Concentration Mass						
3.11 2,4,6-trichlorophenol (88-05-2)	☐	☐	☒	Concentration Mass						

Section 4. Organic Toxic Pollutants (GC/MS Fraction—Base /Neutral Compounds)

4.1 Acenaphthene (83-32-9)	☒	☐	☒	Concentration Mass	ug/L	< 0.01 U				
4.2 Acenaphthylene (208-96-8)	☒	☐	☒	Concentration Mass	ug/L	< 0.01 U				
4.3 Anthracene (120-12-7)	☒	☐	☒	Concentration Mass	ug/L	< 0.01 U				
4.4 Benzidine (92-87-5)	☐	☐	☒	Concentration Mass						
4.5 Benzo (a) anthracene (56-55-3)	☒	☐	☒	Concentration Mass	ug/L	< 0.01 U				
4.6 Benzo (a) pyrene (50-32-8)	☒	☐	☒	Concentration Mass	ug/L	< 0.01 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.7 3,4-benzofluoranthene (205-99-2)	☐	☐	☒	Concentration Mass						
4.8 Benzo (ghi) perylene (191-24-2)	☐	☐	☒	Concentration Mass	ug/L	< 0.01 U				
4.9 Benzo (k) fluoranthene (207-08-9)	☐	☐	☒	Concentration Mass	ug/L	< 0.01 U				
4.10 Bis (2-chloroethoxy) methane (111-91-1)	☐	☐	☒	Concentration Mass						
4.11 Bis (2-chloroethyl) ether (111-44-4)	☐	☐	☒	Concentration Mass						
4.12 Bis (2-chloroisopropyl) ether (102-80-1)	☐	☐	☒	Concentration Mass						
4.13 Bis (2-ethylhexyl) phthalate (117-81-7)	☐	☐	☒	Concentration Mass						
4.14 4-bromophenyl phenyl ether (101-55-3)	☐	☐	☒	Concentration Mass						
4.15 Butyl benzyl phthalate (85-68-7)	☐	☐	☒	Concentration Mass						
4.16 2-chloronaphthalene (91-58-7)	☐	☐	☒	Concentration Mass						
4.17 4-chlorophenyl phenyl ether (7005-72-3)	☐	☐	☒	Concentration Mass						
4.18 Chrysene (218-01-9)	☒	☐	☒	Concentration Mass	ug/L	< 0.026 U				
4.19 Dibenzo (a,h) anthracene (53-70-3)	☐	☐	☒	Concentration Mass	ug/L	< 0.021 U				

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		Quantum Frederick	QM-R-266323	

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent							
4.20 1,2-dichlorobenzene (95-50-1)	☐	☐	☒	Concentration ug/L	Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
				Mass	< 0.07 U					
4.21 1,3-dichlorobenzene (541-73-1)	☐	☐	☒	Concentration ug/L	< 0.07 U					
				Mass						
4.22 1,4-dichlorobenzene (106-46-7)	☐	☐	☒	Concentration ug/L	< 0.07 U					
				Mass						
4.23 3,3-dichlorobenzidine (91-94-1)	☐	☐	☒	Concentration						
				Mass						
4.24 Diethyl phthalate (84-66-2)	☐	☐	☒	Concentration						
				Mass						
4.25 Dimethyl phthalate (131-11-3)	☐	☐	☒	Concentration						
				Mass						
4.26 Di-n-butyl phthalate (84-74-2)	☐	☐	☒	Concentration						
				Mass						
4.27 2,4-dinitrotoluene (121-14-2)	☐	☐	☒	Concentration						
				Mass						
4.28 2,6-dinitrotoluene (606-20-2)	☐	☐	☒	Concentration						
				Mass						
4.29 Di-n-octyl phthalate (117-84-0)	☐	☐	☒	Concentration						
				Mass						
4.30 1,2-Diphenylhydrazine (as azobenzene) (122-66-7)	☐	☐	☒	Concentration						
				Mass						
4.31 Fluoranthene (206-44-0)	☐	☐	☒	Concentration ug/L	< 0.024 U					
				Mass						
4.32 Fluorene (86-73-7)	☐	☐	☒	Concentration ug/L	< 0.01 U					
				Mass						

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		Quantum Frederick	QM-R-266323	

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.33 Hexachlorobenzene (118-74-1)	☐	☐	☒	Concentration Mass						
4.34 Hexachlorobutadiene (87-68-3)	☐	☐	☒	Concentration Mass						
4.35 Hexachlorocyclopentadiene (77-47-4)	☐	☐	☒	Concentration Mass						
4.36 Hexachloroethane (67-72-1)	☐	☐	☒	Concentration Mass						
4.37 Indeno (1,2,3-cd) pyrene (193-39-5)	☐	☐	☒	Concentration Mass	ug/L	< 0.021 U				
4.38 Isophorone (78-59-1)	☐	☐	☒	Concentration Mass						
4.39 Naphthalene (91-20-3)	☒	☐	☒	Concentration Mass	ug/L	< 0.07 U				
4.40 Nitrobenzene (98-95-3)	☐	☐	☒	Concentration Mass						
4.41 N-nitrosodimethylamine (62-75-9)	☐	☐	☒	Concentration Mass						
4.42 N-nitrosodi-n-propylamine (621-64-7)	☐	☐	☒	Concentration Mass						
4.43 N-nitrosodiphenylamine (86-30-6)	☐	☐	☒	Concentration Mass						
4.44 Phenanthrene (85-01-8)	☐	☐	☒	Concentration Mass	ug/L	< 0.031 U				
4.45 Pyrene (129-00-0)	☐	☐	☒	Concentration Mass	ug/L	< 0.022 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
		Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses		
4.46 1,2,4-trichlorobenzene (120-82-1)	☐	☐	☒	Concentration	ug/L	< 0.07 U					
Section 5. Organic Toxic Pollutants (GC/MS Fraction—Pesticides)											
5.1 Aldrin (309-00-2)	☐	☐	☒	Concentration							
5.2 α -BHC (319-84-6)	☐	☐	☒	Concentration							
5.3 β -BHC (319-85-7)	☐	☐	☒	Concentration							
5.4 γ -BHC (58-89-9)	☐	☐	☒	Concentration							
5.5 δ -BHC (319-86-8)	☐	☐	☒	Concentration							
5.6 Chlordane (57-74-9)	☐	☐	☒	Concentration							
5.7 4,4'-DDT (50-29-3)	☐	☐	☒	Concentration							
5.8 4,4'-DDE (72-55-9)	☐	☐	☒	Concentration							
5.9 4,4'-DDD (72-54-8)	☐	☐	☒	Concentration							
5.10 Dieldrin (60-57-1)	☐	☐	☒	Concentration							
5.11 α -endosulfan (115-29-7)	☐	☐	☒	Concentration							

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
5.12 β-endosulfan (115-29-7)	☐	☐	☒	Concentration Mass						
5.13 Endosulfan sulfate (1031-07-8)	☐	☐	☒	Concentration Mass						
5.14 Endrin (72-20-8)	☐	☐	☒	Concentration Mass						
5.15 Endrin aldehyde (7421-93-4)	☐	☐	☒	Concentration Mass						
5.16 Heptachlor (76-44-8)	☐	☐	☒	Concentration Mass						
5.17 Heptachlor epoxide (1024-57-3)	☐	☐	☒	Concentration Mass						
5.18 PCB-1242 (53469-21-9)	☒	☐	☒	Concentration Mass	< 0.008 U					
5.19 PCB-1254 (11097-69-1)	☒	☐	☒	Concentration Mass	< 0.008 U					
5.20 PCB-1221 (11104-28-2)	☒	☐	☒	Concentration Mass	< 0.008 U					
5.21 PCB-1232 (11141-16-5)	☒	☐	☒	Concentration Mass	< 0.008 U					
5.22 PCB-1248 (12672-29-6)	☒	☐	☒	Concentration Mass	< 0.008 U					
5.23 PCB-1260 (11096-82-5)	☒	☐	☒	Concentration Mass	< 0.008 U					
5.24 PCB-1016 (12674-11-2)	☒	☐	☒	Concentration Mass	< 0.008 U					

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) ¹											
Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
Toxaphene (8001-35-2)	☐	☐	☒	Concentration							
				Mass							

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

	Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
☐ Check here if you believe all pollutants in Table C to be present in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for each pollutant.										
☐ Check here if you believe all pollutants in Table C to be absent in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for each pollutant.										
1.	Bromide (24959-67-9)	☐	☒	Concentration Mass						
2.	Chlorine, total residual	☐	☒	Concentration Mass						
3.	Color	☐	☒	Concentration Mass						
4.	Fecal coliform	☐	☒	Concentration Mass						
5.	Fluoride (16984-48-8)	☒	☐	Concentration Mass	mg/L	4.0				
6	Nitrate-nitrite	☐	☒	Concentration Mass						
7.	Nitrogen, total organic (as N)	☐	☒	Concentration Mass						
8.	Oil and grease	☐	☒	Concentration Mass						
9.	Phosphorus (as P), total (7723-14-0)	☐	☒	Concentration Mass						
10.	Sulfate (as SO ₄) (14808-79-8)	☐	☒	Concentration Mass						
11.	Sulfide (as S)	☐	☒	Concentration Mass						

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
12. Sulfite (as SO ₃) (14265-45-3)	☐	☒	Concentration Mass						
13. Surfactants	☐	☒	Concentration Mass						
14. Aluminum, total (7429-90-5)	☒	☐	Concentration Mass	68					
15. Barium, total (7440-39-3)	☒	☐	Concentration Mass	25					
16. Boron, total (7440-42-8)	☐	☒	Concentration Mass						
17. Cobalt, total (7440-48-4)	☒	☐	Concentration Mass	0.53					
18. Iron, total (7439-89-6)	☒	☐	Concentration Mass	420					
19. Magnesium, total (7439-95-4)	☒	☐	Concentration Mass	14000					
20. Molybdenum, total (7439-98-7)	☐	☒	Concentration Mass						
21. Manganese, total (7439-96-5)	☒	☐	Concentration Mass	130					
22. Tin, total (7440-31-5)	☐	☒	Concentration Mass						
23. Titanium, total (7440-32-6)	☐	☒	Concentration Mass						

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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi)) ¹									
Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
24. Radioactivity									
Alpha, total	☐	☒	Concentration Mass						
Beta, total	☐	☒	Concentration Mass						
Radium, total	☐	☒	Concentration Mass						
Radium 226, total	☐	☒	Concentration Mass						

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹				
Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
1. Asbestos	☐	☒		
2. Acetaldehyde	☐	☒		
3. Allyl alcohol	☐	☒		
4. Allyl chloride	☐	☒		
5. Amyl acetate	☐	☒		
6. Aniline	☐	☒		
7. Benzotrile	☐	☒		
8. Benzyl chloride	☐	☒		
9. Butyl acetate	☐	☒		
10. Butylamine	☐	☒		
11. Captan	☐	☒		
12. Carbaryl	☐	☒		
13. Carbofuran	☐	☒		
14. Carbon disulfide	☐	☒		
15. Chlorpyrifos	☐	☒		
16. Coumaphos	☐	☒		
17. Cresol	☐	☒		
18. Crotonaldehyde	☐	☒		
19. Cyclohexane	☐	☒		0.1 ug/L U

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹				
Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
20. 2,4-D (2,4-dichlorophenoxyacetic acid)	☐	☒		
21. Diazinon	☐	☒		
22. Dicamba	☐	☒		
23. Dichlobenil	☐	☒		
24. Diclhone	☐	☒		
25. 2,2-dichloropropionic acid	☐	☒		
26. Dichlorvos	☐	☒		
27. Diethyl amine	☐	☒		
28. Dimethyl amine	☐	☒		
29. Dintrobenezene	☐	☒		
30. Diquat	☐	☒		
31. Disulfoton	☐	☒		
32. Diuron	☐	☒		
33. Epichlorohydrin	☐	☒		
34. Ethion	☐	☒		
35. Ethylene diamine	☐	☒		
36. Ethylene dibromide	☐	☒		
37. Formaldehyde	☐	☒		
38. Furfural	☐	☒		

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹				
Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
39. Guthion	☐	☒		
40. Isoprene	☐	☒		
41. Isopropanolamine	☐	☒		
42. Kelthane	☐	☒		
43. Kepone	☐	☒		
44. Malathion	☐	☒		
45. Mercaptodimethur	☐	☒		
46. Methoxychlor	☐	☒		
47. Methyl mercaptan	☐	☒		
48. Methyl methacrylate	☐	☒		
49. Methyl parathion	☐	☒		
50. Mevinphos	☐	☒		
51. Mexacarbate	☐	☒		
52. Monoethyl amine	☐	☒		
53. Monomethyl amine	☐	☒		
54. Naled	☐	☒		
55. Naphthenic acid	☐	☒		
56. Nitrotoluene	☐	☒		
57. Parathion	☐	☒		

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
58. Phenolsulfonate	☐	☒		
59. Phosgene	☐	☒		
60. Propargite	☐	☒		
61. Propylene oxide	☐	☒		
62. Pyrethrins	☐	☒		
63. Quinoline	☐	☒		
64. Resorcinol	☐	☒		
65. Strontium	☐	☒		
66. Strychnine	☐	☒		
67. Styrene	☐	☒		< 0.07 ug/L U
68. 2,4,5-T (2,4,5-trichlorophenoxyacetic acid)	☐	☒		
69. TDE (tetrachlorodiphenyl ethane)	☐	☒		
70. 2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic acid]	☐	☒		
71. Trichlorofon	☐	☒		
72. Triethanolamine	☐	☒		
73. Triethylamine	☐	☒		
74. Trimethylamine	☐	☒		
75. Uranium	☐	☐		
76. Vanadium	☐	☒		

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹				
Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
77. Vinyl acetate	☐	☒		
78. Xylene	☐	☒		
79. Xylenol	☐	☒		
80. Zirconium	☐	☒		

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE E. 2,3,7,8 TETRACHLORODIBENZO P DIOXIN (2,3,7,8 TCDD) (40 CFR 122.21(g)(7)(viii))				
Pollutant	TCDD Congeners Used or Manufactured	Presence or Absence (check one)		Results of Screening Procedure
		Believed Present	Believed Absent	
2,3,7,8-TCDD	☐	☐	☒	

EPA Identification Number		NPDES Permit Number		Facility Name Quantum Frederick		OMB No. 2040-0004 Expires 07/31/2026	
Form 2C NPDES			U.S. Environmental Protection Agency Application for NPDES Permit to Discharge Wastewater EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURE OPERATIONS				
SECTION 1. OUTFALL LOCATION (40 CFR 122.21(G)(1))							
Outfall Location	<u>1.1</u>	Provide information on each of the facility's outfalls in the table below.					
		Outfall Number	Receiving Water Name	Latitude		Longitude	
		SV23192L	Ground surface in EC	Multiple - see map		Multiple - see map	
SECTION 2. LINE DRAWING (40 CFR 122.21(G)(2))							
Line Drawing	<u>2.1</u>	Have you attached a line drawing to this application that shows the water flow through your facility with a water balance? (See instructions for drawing requirements. See Exhibit 2C-1 at end of instructions for example.) ☐ Yes					
SECTION 3. AVERAGE FLOWS AND TREATMENT (40 CFR 122.21(G)(3))							
Average Flows and Treatment	<u>3.1</u>	For each outfall identified under Item 1.1, provide average flow and treatment information. Add additional sheets if necessary.					
		Outfall Number SV23192L					
		Operations Contributing to Flow					
		Operation			Average Flow		
		B Outfall Tanks			mgd		
					mgd		
					mgd		
					mgd		
		Treatment Units					
		Description (include size, flow rate through each treatment unit, retention time, etc.)		Code from Exhibit 2C-2		Final Disposal of Solid or Liquid Wastes Other Than by Discharge	

EPA Identification Number		NPDES Permit Number		Facility Name Quantum Frederick		OMB No. 2040-0004 Expires 07/31/2026	
Average Flows and Treatment Continued	3.1 cont.	**Outfall Number** _____					
		Operations Contributing to Flow					
		Operation			Average Flow		
					mgd		
					mgd		
					mgd		
					mgd		
		Treatment Units					
		Description (include size, flow rate through each treatment unit, retention time, etc.)			Code from Exhibit 2C-2		Final Disposal of Solid or Liquid Wastes Other Than by Discharge
		Outfall Number _____					
		Operations Contributing to Flow					
		Operation			Average Flow		
					mgd		
					mgd		
					mgd		
					mgd		
		Treatment Units					
		Description (include size, flow rate through each treatment unit, retention time, etc.)			Code from Exhibit 2C-2		Final Disposal of Solid or Liquid Wastes Other Than by Discharge
System Users	3.2	Are you applying for an NPDES permit to operate a privately owned treatment works? ☐ Yes ☒ No → SKIP to Section 4.					
	3.3	Have you attached a list that identifies each user of the treatment works? ☐ Yes					

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SECTION 4. INTERMITTENT FLOWS (40 CFR 122.21(G)(4))								
Intermittent Flows	4.1	Except for storm runoff, leaks, or spills, are any discharges described in Sections 1 and 3 intermittent or seasonal? ☐ Yes ☒ No → SKIP to Section 5.						
	4.2	Provide information on intermittent or seasonal flows for each applicable outfall. Attach additional pages, if necessary.						
		Outfall Number	Operation (list)	Frequency		Flow Rate		Duration
				Average Days/Week	Average Months/Year	Long-Term Average	Maximum Daily	
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
SECTION 5. PRODUCTION (40 CFR 122.21(G)(5))								
Applicable ELGs	5.1	Do any effluent limitation guidelines (ELGs) promulgated by EPA under Section 304 of the CWA apply to your facility? ☐ Yes ☒ No → SKIP to Section 6.						
	5.2	Provide the following information on applicable ELGs.						
		ELG Category	ELG Subcategory				Regulatory Citation	
Production-Based Limitations	5.3	Are any of the applicable ELGs expressed in terms of production (or other measure of operation)? ☐ Yes ☒ No → SKIP to Section 6.						
	5.4	Provide an actual measure of daily production expressed in terms and units of applicable ELGs.						
		Outfall Number	Operation, Product, or Material			Quantity per Day	Unit of Measure	

EPA Identification Number	NPDES Permit Number	Facility Name Quantum Frederick	OMB No. 2040-0004 Expires 07/31/2026	

	5.5	Are you requesting alternative limits based on an anticipated increase in the actual production during the next permit term? (Consult with your NPDES permitting authority to determine what information needs to be submitted and when.)		
		☐ Yes ☐ No		

SECTION 6. IMPROVEMENTS (40 CFR 122.21(G)(6))

Upgrades and Improvements	6.1	Are you presently required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application?			
		☐ Yes ☒ No → SKIP to Item 6.3.			
	6.2	Briefly identify each applicable project in the table below.			
		Brief Identification and Description of Project	Affected Outfalls (list outfall number)	Source(s) of Discharge	Final Compliance Dates
					Required Projected
	6.3	Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? (<i>optional item</i>)			
		☐ Yes ☐ No ☒ Not applicable			

SECTION 7. EFFLUENT AND INTAKE CHARACTERISTICS (40 CFR 122.21(G)(7))

Effluent and Intake Characteristics	See the instructions to determine the pollutants and parameters you are required to monitor and, in turn, the tables you must complete. Not all applicants need to complete each table.			
	Table A. Conventional and Non-Conventional Pollutants			
	7.1	Are you requesting a waiver from your NPDES permitting authority for any Table A pollutants for any of your outfalls?		
		☐ Yes ☒ No → SKIP to Item 7.3.		
	7.2	If yes, indicate the applicable outfalls below or check the appropriate box to indicate that you are requesting a waiver for all outfalls. Attach waiver request and other required information to the application.		
		Outfall number _____ Outfall number _____ Outfall number _____ ☐ I am requesting a waiver for some pollutants at all outfalls. ☐ I am requesting a waiver for all pollutants at all outfalls → SKIP to Item 7.4.		
	7.3	Have you completed monitoring for all Table A pollutants at each of your outfalls for which a waiver has not been requested and attached the results to this application package?		
		☐ Yes		
Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants				
7.4	Do any of the facility's processes that contribute wastewater fall into one or more of the primary industry categories listed in Exhibit 2C-3? (See end of instructions for exhibit.)			
	☐ Yes ☒ No → SKIP to Item 7.8.			
7.5	Have you checked "Testing Required" for all toxic metals, cyanide, and total phenols in Section 1 of Table B?			
	☐ Yes			

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	7.6	List the applicable primary industry categories and check the boxes indicating the required GC/MS fraction(s) identified in Exhibit 2C-3.						
		Primary Industry Category			Required GC/MS Fraction(s) (check applicable boxes)			
					☐ Volatile	☐ Acid	☐ Base/neutral	☐ Pesticide
					☐ Volatile	☐ Acid	☐ Base/neutral	☐ Pesticide
					☐ Volatile	☐ Acid	☐ Base/neutral	☐ Pesticide
Effluent and Intake Characteristics Continued	7.7	Have you checked "Testing Required" for all required pollutants in Sections 2 through 5 of Table B for each of the GC/MS fractions checked in Item 7.6? ☐ Yes						
	7.8	Have you checked "Believed Present" or "Believed Absent" for all pollutants listed in Sections 1 through 5 of Table B where testing is not required? ☐ Yes						
	7.9	Have you provided (1) quantitative data for those Section 1, Table B, pollutants for which you have indicated testing is required or (2) quantitative data or other required information for those Section 1, Table B, pollutants that you have indicated are "Believed Present" in your discharge? ☐ Yes						
	7.10	Does the applicant qualify for a small business exemption under the criteria specified in the instructions? ☐ Yes → Note that you qualify at the top of Table B, then SKIP to Item 7.12. ☒ No						
	7.11	Have you provided (1) quantitative data for those Sections 2 through 5, Table B, pollutants for which you have determined testing is required or (2) quantitative data or an explanation for those Sections 2 through 5, Table B, pollutants you have indicated are "Believed Present" in your discharge? ☒ Yes						
	Table C. Certain Conventional and Non-Conventional Pollutants							
	7.12	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table C for all outfalls? ☒ Yes						
	7.13	Have you completed Table C by providing quantitative data for those pollutants that are limited either directly or indirectly in an ELG? You must provide quantitative data even if the pollutant is "Believed Absent." ☐ Yes ☒ Not applicable						
	7.14	Have you completed Table C by providing quantitative data or an explanation for those pollutants for which you have indicated "Believed Present"? ☒ Yes						
	Table D. Certain Hazardous Substances and Asbestos							
	7.15	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table D for all outfalls? ☒ Yes						
	7.16	Have you completed Table D by (1) describing the reasons the applicable pollutants are expected to be discharged and (2) providing quantitative data, if available? ☒ Yes ☐ No						
	Table E. 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (2,3,7,8-TCDD)							
7.17	Does the facility use or manufacture one or more of the 2,3,7,8-TCDD congeners listed in the instructions, or do you know or have reason to believe that TCDD is or may be present in the effluent? ☐ Yes → Complete Table E. ☒ No → SKIP to Section 8.							
7.18	Have you completed Table E by reporting <i>qualitative</i> data for TCDD? ☐ Yes							

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SECTION 8. USED OR MANUFACTURED TOXICS (40 CFR 122.21(G)(9))

Used or Manufactured Toxics	8.1	Is any pollutant listed in Table B a substance or a component of a substance used or manufactured at your facility as an intermediate or final product or byproduct? ☐ Yes ☒ No → SKIP to Section 9.		
	8.2	List the pollutants below. Attach additional sheets, if necessary.		
		1.	4.	7.
		2.	5.	8.
		3.	6.	9.

SECTION 9. BIOLOGICAL TOXICITY TESTS (40 CFR 122.21(G)(11))

Biological Toxicity Tests	9.1	Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made within the last three years on (1) any of your discharges or (2) a receiving water in relation to your discharge? ☐ Yes ☒ No → SKIP to Section 10.		
	9.2	Identify the tests and their purposes below.		
		Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?
				☐ Yes ☐ No
				☐ Yes ☐ No
			☐ Yes ☐ No	

SECTION 10. CONTRACT ANALYSES (40 CFR 122.21(G)(12))

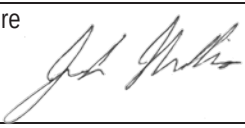
Contract Analyses	10.1	Were any of the analyses reported in Section 7 performed by a contract laboratory or consulting firm? ☒ Yes ☐ No → SKIP to Section 11.			
	10.2	Provide information for each contract laboratory or consulting firm below.			
			Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
		Name of laboratory/firm	Eurofins Lancaster Laboratories Environment Testing, LLC		
		Laboratory address	2425 New Holland Pike, Lancaster, PA		
		Phone number	(412) 525-0071		
	Pollutant(s) analyzed	VOCs, SVOCs, GRO/DRO, PCBs, Anions, Metals/Mercury, pH, free cyanide			

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SECTION 11. ADDITIONAL INFORMATION (40 CFR 122.21(G)(13))							
Additional Information	<u>11.1</u>	Has the NPDES permitting authority requested additional information? ☐ Yes ☒ No → SKIP to Section 12.					
	<u>11.2</u>	List the information requested and attach it to this application.					
	1.						4.
	2.						5.
	3.						6.
SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(A) AND (D))							
Checklist and Certification Statement	<u>12.1</u>	In Column 1 below, mark the sections of Form 2C that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to complete all sections or provide attachments.					
		Column 1		Column 2			
	☒	Section 1: Outfall Location		☒ w/ attachments			
	☐	Section 2: Line Drawing		☐ w/ line drawing		☐ w/ additional attachments	
	☐	Section 3: Average Flows and Treatment		☐ w/ attachments		☐ w/ list of each user of privately owned treatment works	
	☐	Section 4: Intermittent Flows		☐ w/ attachments			
	☐	Section 5: Production		☐ w/ attachments			
	☐	Section 6: Improvements		☐ w/ attachments		☐ w/ optional additional sheets describing any additional pollution control plans	
	☒	Section 7: Effluent and Intake Characteristics		☒ w/ request for a waiver and supporting information ☐ w/ small business exemption request ☒ w/ Table A ☒ w/ Table C ☒ w/ Table E		☐ w/ explanation for identical outfalls ☐ w/ other attachments ☒ w/ Table B ☒ w/ Table D ☒ w/ analytical results as an attachment	
	☐	Section 8: Used or Manufactured Toxics		☐ w/ attachments			
	☐	Section 9: Biological Toxicity Tests		☐ w/ attachments			
	☒	Section 10: Contract Analyses		☐ w/ attachments			
	☐	Section 11: Additional Information		☐ w/ attachments			
	☒	Section 12: Checklist and Certification Statement		☐ w/ attachments			

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SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d)) (Continued)

Checklist and Certification Statement	12.2	Provide the following certification. (See instructions to determine the appropriate person to sign the application.)	
		Certification Statement <i>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</i>	
		Name (print or type first and last name) Joshua Mullis	Official title Project Manager
		Signature 	Date signed 6/20/2025

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
		Quantum Frederick	QM-R-SV23192L

TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii))¹

TABLE 1. CONVENTIONAL POLLUTANT MONITORING AND REPORTING REQUIREMENTS (10 C.F.R. 155.106)									
Pollutant	Waiver Requested (if applicable)	Units (specify)	Effluent				Intake (optional)		
			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses	
☒	Check here if you have applied to your NPDES permitting authority for a waiver for <i>all</i> of the pollutants listed on this table for the noted outfall.								
1.	☐	Concentration							
		Mass							
2.	☐	Concentration							
		Mass							
3.	☐	Concentration							
		Mass							
4.	☐	Concentration							
		Mass							
5.	☐	Concentration							
		Mass							
6.	☐	Rate							
7.	☐	°C							
	☒	°C	21.4						
8.	☒	Standard units	7.8						
	☒	Standard units	7.8						

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
☐ Check here if you qualify as a small business per the instructions to Form 2C and, therefore, do not need to submit quantitative data for any of the organic toxic pollutants in Sections 2 through 5 of this table. Note, however, that you must still indicate in the appropriate column of this table if you believe any of the pollutants listed are present in your discharge.										
Section 1. Toxic Metals, Cyanide, and Total Phenols										
1.1 Antimony, total (7440-36-0)	☐	☐	☒	Concentration Mass	ug/L	< 0.20 U				
1.2 Arsenic, total (7440-38-2)	☐	☐	☒	Concentration Mass	ug/L	< 0.68 U				
1.3 Beryllium, total (7440-41-7)	☐	☐	☒	Concentration Mass	ug/L	< 0.12 U				
1.4 Cadmium, total (7440-43-9)	☒	☐	☒	Concentration Mass	ug/L	< 0.15 U				
1.5 Chromium, total (7440-47-3)	☐	☐	☒	Concentration Mass	ug/L	< 0.55 U				
1.6 Copper, total (7440-50-8)	☐	☐	☒	Concentration Mass	ug/L	< 0.85 U				
1.7 Lead, total (7439-92-1)	☒	☐	☒	Concentration Mass	ug/L	< 0.12 U				
1.8 Mercury, total (7439-97-6)	☐	☐	☒	Concentration Mass	ug/L	< 0.087 U				
1.9 Nickel, total (7440-02-0)	☐	☐	☒	Concentration Mass	ug/L	< 0.4 U				
1.10 Selenium, total (7782-49-2)	☐	☒	☐	Concentration Mass	ug/L	0.30 J				
1.11 Silver, total (7440-22-4)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) ¹											
Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
		Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
1.12 Thallium, total (7440-28-0)	☐	☐	☒	Concentration	ug/L	< 0.13 U					
				Mass							
1.13 Zinc, total (7440-66-6)	☐	☒	☐	Concentration	ug/L	4.6 J					
				Mass							
1.14 Cyanide, total (57-12-5)	☒	☐	☒	Concentration	mg/L	< 0.005 U	free cyanide				
				Mass							
1.15 Phenols, total	☐	☐	☒	Concentration							
				Mass							
Section 2. Organic Toxic Pollutants (GC/MS Fraction — Volatile Compounds)											
2.1 Acrolein (107-02-8)	☐	☐	☒	Concentration							
				Mass							
2.2 Acrylonitrile (107-13-1)	☐	☐	☒	Concentration							
				Mass							
2.3 Benzene (71-43-2)	☐	☒	☐	Concentration	ug/L	0.35 J					
				Mass							
2.4 Bromoform (75-25-2)	☐	☐	☒	Concentration							
				Mass							
2.5 Carbon tetrachloride (56-23-5)	☐	☐	☒	Concentration	ug/L	< 0.1 U					
				Mass							
2.6 Chlorobenzene (108-90-7)	☐	☐	☒	Concentration	ug/L	< 0.07 U					
				Mass							
2.7 Chlorodibromomethane (124-48-1)	☐	☐	☒	Concentration							
				Mass							
2.8 Chloroethane (75-00-3)	☐	☐	☒	Concentration	ug/L	< 0.1 U					
				Mass							

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
2.9 2-chloroethylvinyl ether (110-75-8)	☐	☐	☒	Concentration Mass						
2.10 Chloroform (67-66-3)	☐	☐	☒	Concentration Mass	ug/L	< 0.09 U				
2.11 Dichlorobromomethane (75-27-4)	☐	☐	☒	Concentration Mass						
2.12 1,1-dichloroethane (75-34-3)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				
2.13 1,2-dichloroethane (107-06-2)	☐	☐	☒	Concentration Mass	ug/L	< 0.07 U				
2.14 1,1-dichloroethylene (75-35-4)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				
2.15 1,2-dichloropropane (78-87-5)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				
2.16 1,3-dichloropropylene (542-75-6)	☐	☐	☒	Concentration Mass						
2.17 Ethylbenzene (100-41-4)	☐	☐	☒	Concentration Mass	ug/L	< 0.08 U				
2.18 Methyl bromide (74-83-9)	☐	☐	☒	Concentration Mass						
2.19 Methyl chloride (74-87-3)	☐	☐	☒	Concentration Mass						
2.20 Methylene chloride (75-09-2)	☐	☐	☒	Concentration Mass	ug/L	< 0.2 U				
2.21 1,1,2,2- tetrachloroethane (79-34-5)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
2.22 Tetrachloroethylene (127-18-4)	☐	☐	☒	Concentration Mass	< 0.20 U					
2.23 Toluene (108-88-3)	☐	☒	☐	Concentration Mass	0.011 J					
2.24 1,2-trans-dichloroethylene (156-60-5)	☐	☐	☒	Concentration Mass						
2.25 1,1,1-trichloroethane (71-55-6)	☐	☐	☒	Concentration Mass	< 0.08 U					
2.26 1,1,2-trichloroethane (79-00-5)	☐	☐	☒	Concentration Mass	< 0.08 U					
2.27 Trichloroethylene (79-01-6)	☐	☐	☒	Concentration Mass						
2.28 Vinyl chloride (75-01-4)	☐	☐	☒	Concentration Mass	< 0.02 U					
Section 3. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds)										
3.1 2-chlorophenol (95-57-8)	☐	☐	☒	Concentration Mass						
3.2 2,4-dichlorophenol (120-83-2)	☐	☐	☒	Concentration Mass						
3.3 2,4-dimethylphenol (105-67-9)	☐	☐	☒	Concentration Mass						
3.4 4,6-dinitro-o-cresol (534-52-1)	☐	☐	☒	Concentration Mass						
3.5 2,4-dinitrophenol (51-28-5)	☐	☐	☒	Concentration Mass						

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
3.6 2-nitrophenol (88-75-5)	☐	☐	☒	Concentration Mass						
3.7 4-nitrophenol (100-02-7)	☐	☐	☒	Concentration Mass						
3.8 p-chloro-m-cresol (59-50-7)	☐	☐	☒	Concentration Mass						
3.9 Pentachlorophenol (87-86-5)	☐	☐	☒	Concentration Mass						
3.10 Phenol (108-95-2)	☐	☐	☒	Concentration Mass						
3.11 2,4,6-trichlorophenol (88-05-2)	☐	☐	☒	Concentration Mass						

Section 4. Organic Toxic Pollutants (GC/MS Fraction—Base /Neutral Compounds)

4.1 Acenaphthene (83-32-9)	☒	☐	☒	Concentration Mass	ug/L	< 0.01 U				
4.2 Acenaphthylene (208-96-8)	☒	☐	☒	Concentration Mass	ug/L	< 0.01 U				
4.3 Anthracene (120-12-7)	☒	☐	☒	Concentration Mass	ug/L	< 0.01 U				
4.4 Benzidine (92-87-5)	☐	☐	☒	Concentration Mass						
4.5 Benzo (a) anthracene (56-55-3)	☒	☐	☒	Concentration Mass	ug/L	< 0.01 U				
4.6 Benzo (a) pyrene (50-32-8)	☒	☐	☒	Concentration Mass	ug/L	< 0.01 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.7 3,4-benzofluoranthene (205-99-2)	☐	☐	☒	Concentration Mass						
4.8 Benzo (ghi) perylene (191-24-2)	☐	☐	☒	Concentration Mass	ug/L	< 0.010 U				
4.9 Benzo (k) fluoranthene (207-08-9)	☐	☐	☒	Concentration Mass	ug/L	< 0.010 U				
4.10 Bis (2-chloroethoxy) methane (111-91-1)	☐	☐	☒	Concentration Mass						
4.11 Bis (2-chloroethyl) ether (111-44-4)	☐	☐	☒	Concentration Mass						
4.12 Bis (2-chloroisopropyl) ether (102-80-1)	☐	☐	☒	Concentration Mass						
4.13 Bis (2-ethylhexyl) phthalate (117-81-7)	☐	☐	☒	Concentration Mass						
4.14 4-bromophenyl phenyl ether (101-55-3)	☐	☐	☒	Concentration Mass						
4.15 Butyl benzyl phthalate (85-68-7)	☐	☐	☒	Concentration Mass						
4.16 2-chloronaphthalene (91-58-7)	☐	☐	☒	Concentration Mass						
4.17 4-chlorophenyl phenyl ether (7005-72-3)	☐	☐	☒	Concentration Mass						
4.18 Chrysene (218-01-9)	☐	☐	☒	Concentration Mass	ug/L	< 0.025				
4.19 Dibenzo (a,h) anthracene (53-70-3)	☐	☐	☒	Concentration Mass	ug/L	< 0.02 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.20 1,2-dichlorobenzene (95-50-1)	☐	☐	☒	Concentration ug/L	< 0.07 U					
4.21 1,3-dichlorobenzene (541-73-1)	☐	☐	☒	Concentration ug/L	< 0.07 U					
4.22 1,4-dichlorobenzene (106-46-7)	☐	☐	☒	Concentration ug/L	< 0.07 U					
4.23 3,3-dichlorobenzidine (91-94-1)	☐	☐	☒	Concentration Mass						
4.24 Diethyl phthalate (84-66-2)	☐	☐	☒	Concentration Mass						
4.25 Dimethyl phthalate (131-11-3)	☐	☐	☒	Concentration Mass						
4.26 Di-n-butyl phthalate (84-74-2)	☐	☐	☒	Concentration Mass						
4.27 2,4-dinitrotoluene (121-14-2)	☐	☐	☒	Concentration Mass						
4.28 2,6-dinitrotoluene (606-20-2)	☐	☐	☒	Concentration Mass						
4.29 Di-n-octyl phthalate (117-84-0)	☐	☐	☒	Concentration Mass						
4.30 1,2-Diphenylhydrazine (as azobenzene) (122-66-7)	☐	☐	☒	Concentration Mass						
4.31 Fluoranthene (206-44-0)	☐	☐	☒	Concentration ug/L	< 0.023 U					
4.32 Fluorene (86-73-7)	☐	☐	☒	Concentration ug/L	< 0.01 U					

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.33 Hexachlorobenzene (118-74-1)	☐	☐	☒	Concentration Mass						
4.34 Hexachlorobutadiene (87-68-3)	☐	☐	☒	Concentration Mass						
4.35 Hexachlorocyclopentadiene (77-47-4)	☐	☐	☒	Concentration Mass						
4.36 Hexachloroethane (67-72-1)	☐	☐	☒	Concentration Mass						
4.37 Indeno (1,2,3-cd) pyrene (193-39-5)	☐	☐	☒	Concentration Mass	ug/L	< 0.02 U				
4.38 Isophorone (78-59-1)	☐	☐	☒	Concentration Mass						
4.39 Naphthalene (91-20-3)	☒	☐	☒	Concentration Mass	ug/L	< 0.069 U				
4.40 Nitrobenzene (98-95-3)	☐	☐	☒	Concentration Mass						
4.41 N-nitrosodimethylamine (62-75-9)	☐	☐	☒	Concentration Mass						
4.42 N-nitrosodi-n-propylamine (621-64-7)	☐	☐	☒	Concentration Mass						
4.43 N-nitrosodiphenylamine (86-30-6)	☐	☐	☒	Concentration Mass						
4.44 Phenanthrene (85-01-8)	☐	☐	☒	Concentration Mass	ug/L	< 0.031 U				
4.45 Pyrene (129-00-0)	☐	☐	☒	Concentration Mass	ug/L	< 0.021 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.46 1,2,4-trichlorobenzene (120-82-1)	☐	☐	☒	Concentration ug/L	< 0.07 U					
Section 5. Organic Toxic Pollutants (GC/MS Fraction—Pesticides)										
5.1 Aldrin (309-00-2)	☐	☐	☒	Concentration Mass						
5.2 α -BHC (319-84-6)	☐	☐	☒	Concentration Mass						
5.3 β -BHC (319-85-7)	☐	☐	☒	Concentration Mass						
5.4 γ -BHC (58-89-9)	☐	☐	☒	Concentration Mass						
5.5 δ -BHC (319-86-8)	☐	☐	☒	Concentration Mass						
5.6 Chlordane (57-74-9)	☐	☐	☒	Concentration Mass						
5.7 4,4'-DDT (50-29-3)	☐	☐	☒	Concentration Mass						
5.8 4,4'-DDE (72-55-9)	☐	☐	☒	Concentration Mass						
5.9 4,4'-DDD (72-54-8)	☐	☐	☒	Concentration Mass						
5.10 Dieldrin (60-57-1)	☐	☐	☒	Concentration Mass						
5.11 α -endosulfan (115-29-7)	☐	☐	☒	Concentration Mass						

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
5.12 β-endosulfan (115-29-7)	☐	☐	☒	Concentration Mass						
5.13 Endosulfan sulfate (1031-07-8)	☐	☐	☒	Concentration Mass						
5.14 Endrin (72-20-8)	☐	☐	☒	Concentration Mass						
5.15 Endrin aldehyde (7421-93-4)	☐	☐	☒	Concentration Mass						
5.16 Heptachlor (76-44-8)	☐	☐	☒	Concentration Mass						
5.17 Heptachlor epoxide (1024-57-3)	☐	☐	☒	Concentration Mass						
5.18 PCB-1242 (53469-21-9)	☒	☐	☒	Concentration Mass	ug/L < 0.0075U					
5.19 PCB-1254 (11097-69-1)	☒	☐	☒	Concentration Mass	ug/L < 0.0047 U					
5.20 PCB-1221 (11104-28-2)	☒	☐	☒	Concentration Mass	ug/L < 0.0075 U					
5.21 PCB-1232 (11141-16-5)	☒	☐	☒	Concentration Mass	ug/L < 0.0075 U					
5.22 PCB-1248 (12672-29-6)	☒	☐	☒	Concentration Mass	ug/L < 0.0075 U					
5.23 PCB-1260 (11096-82-5)	☒	☐	☒	Concentration Mass	ug/L < 0.0047 U					
5.24 PCB-1016 (12674-11-2)	☒	☐	☒	Concentration Mass	ug/L < 0.0075 U					

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) ¹											
Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
Toxaphene (8001-35-2)	☐	☐	☒	Concentration							
				Mass							

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

	Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
☐ Check here if you believe all pollutants in Table C to be present in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for each pollutant.										
☐ Check here if you believe all pollutants in Table C to be absent in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for each pollutant.										
1.	Bromide (24959-67-9)	☐	☒	Concentration Mass						
2.	Chlorine, total residual	☐	☒	Concentration Mass						
3.	Color	☐	☒	Concentration Mass						
4.	Fecal coliform	☐	☒	Concentration Mass						
5.	Fluoride (16984-48-8)	☒	☐	Concentration Mass	mg/L	0.82				
6	Nitrate-nitrite	☐	☒	Concentration Mass						
7.	Nitrogen, total organic (as N)	☐	☒	Concentration Mass						
8.	Oil and grease	☐	☒	Concentration Mass						
9.	Phosphorus (as P), total (7723-14-0)	☐	☒	Concentration Mass						
10.	Sulfate (as SO ₄) (14808-79-8)	☐	☒	Concentration Mass						
11.	Sulfide (as S)	☐	☒	Concentration Mass						

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
12. Sulfite (as SO ₃) (14265-45-3)	☐	☒	Concentration Mass						
13. Surfactants	☐	☒	Concentration Mass						
14. Aluminum, total (7429-90-5)	☒	☐	Concentration Mass	78					
15. Barium, total (7440-39-3)	☒	☐	Concentration Mass	47					
16. Boron, total (7440-42-8)	☐	☒	Concentration Mass						
17. Cobalt, total (7440-48-4)	☒	☐	Concentration Mass	0.18 J					
18. Iron, total (7439-89-6)	☒	☐	Concentration Mass	120					
19. Magnesium, total (7439-95-4)	☒	☐	Concentration Mass	11000					
20. Molybdenum, total (7439-98-7)	☐	☒	Concentration Mass						
21. Manganese, total (7439-96-5)	☒	☐	Concentration Mass	29					
22. Tin, total (7440-31-5)	☐	☒	Concentration Mass						
23. Titanium, total (7440-32-6)	☐	☒	Concentration Mass						

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
24. Radioactivity									
Alpha, total	☐	☒	Concentration Mass						
Beta, total	☐	☒	Concentration Mass						
Radium, total	☐	☒	Concentration Mass						
Radium 226, total	☐	☒	Concentration Mass						

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number	NPDES Permit Number	Facility Name Quantum Frederick	Outfall Number QM-R-SV23192L	OMB No. 2040-0004 Expires 07/31/2026

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹				
Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
1. Asbestos	☐	☒		
2. Acetaldehyde	☐	☒		
3. Allyl alcohol	☐	☒		
4. Allyl chloride	☐	☒		
5. Amyl acetate	☐	☒		
6. Aniline	☐	☒		
7. Benzotrile	☐	☒		
8. Benzyl chloride	☐	☒		
9. Butyl acetate	☐	☒		
10. Butylamine	☐	☒		
11. Captan	☐	☒		
12. Carbaryl	☐	☒		
13. Carbofuran	☐	☒		
14. Carbon disulfide	☐	☒		
15. Chlorpyrifos	☐	☒		
16. Coumaphos	☐	☒		
17. Cresol	☐	☒		
18. Crotonaldehyde	☐	☒		
19. Cyclohexane	☐	☒		0.1 ug/L U

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
20. 2,4-D (2,4-dichlorophenoxyacetic acid)	☐	☒		
21. Diazinon	☐	☒		
22. Dicamba	☐	☒		
23. Dichlobenil	☐	☒		
24. Diclhone	☐	☒		
25. 2,2-dichloropropionic acid	☐	☒		
26. Dichlorvos	☐	☒		
27. Diethyl amine	☐	☒		
28. Dimethyl amine	☐	☒		
29. Dinitrobenzene	☐	☒		
30. Diquat	☐	☒		
31. Disulfoton	☐	☒		
32. Diuron	☐	☒		
33. Epichlorohydrin	☐	☒		
34. Ethion	☐	☒		
35. Ethylene diamine	☐	☒		
36. Ethylene dibromide	☐	☒		
37. Formaldehyde	☐	☒		
38. Furfural	☐	☒		

EPA Identification Number	NPDES Permit Number	Facility Name Quantum Frederick	Outfall Number QM-R-SV23192L	OMB No. 2040-0004 Expires 07/31/2026

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹				
Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
39. Guthion	☐	☒		
40. Isoprene	☐	☒		
41. Isopropanolamine	☐	☒		
42. Kelthane	☐	☒		
43. Kepone	☐	☒		
44. Malathion	☐	☒		
45. Mercaptodimethur	☐	☒		
46. Methoxychlor	☐	☒		
47. Methyl mercaptan	☐	☒		
48. Methyl methacrylate	☐	☒		
49. Methyl parathion	☐	☒		
50. Mevinphos	☐	☒		
51. Mexacarbate	☐	☒		
52. Monoethyl amine	☐	☒		
53. Monomethyl amine	☐	☒		
54. Naled	☐	☒		
55. Naphthenic acid	☐	☒		
56. Nitrotoluene	☐	☒		
57. Parathion	☐	☒		

EPA Identification Number	NPDES Permit Number	Facility Name Quantum Frederick	Outfall Number QM-R-SV23192L	OMB No. 2040-0004 Expires 07/31/2026

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
58. Phenolsulfonate	☐	☒		
59. Phosgene	☐	☒		
60. Propargite	☐	☒		
61. Propylene oxide	☐	☒		
62. Pyrethrins	☐	☒		
63. Quinoline	☐	☒		
64. Resorcinol	☐	☒		
65. Strontium	☐	☒		
66. Strychnine	☐	☒		
67. Styrene	☐	☒		< 0.07 ug/L U
68. 2,4,5-T (2,4,5-trichlorophenoxyacetic acid)	☐	☒		
69. TDE (tetrachlorodiphenyl ethane)	☐	☒		
70. 2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic acid]	☐	☒		
71. Trichlorofon	☐	☒		
72. Triethanolamine	☐	☒		
73. Triethylamine	☐	☒		
74. Trimethylamine	☐	☒		
75. Uranium	☐	☐		
76. Vanadium	☐	☒		

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹				
Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
77. Vinyl acetate	☐	☒		
78. Xylene	☐	☒		
79. Xylenol	☐	☒		
80. Zirconium	☐	☒		

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE E. 2,3,7,8 TETRACHLORODIBENZO P DIOXIN (2,3,7,8 TCDD) (40 CFR 122.21(g)(7)(viii))				
Pollutant	TCDD Congeners Used or Manufactured	Presence or Absence (check one)		Results of Screening Procedure
		Believed Present	Believed Absent	
2,3,7,8-TCDD	☐	☐	☒	

EPA Identification Number		NPDES Permit Number	Facility Name Quantum Frederick		OMB No. 2040-0004 Expires 07/31/2026
Form 2C NPDES			U.S. Environmental Protection Agency Application for NPDES Permit to Discharge Wastewater EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURE OPERATIONS		
SECTION 1. OUTFALL LOCATION (40 CFR 122.21(G)(1))					
Outfall Location	<u>1.1</u>	Provide information on each of the facility's outfalls in the table below.			
		Outfall Number	Receiving Water Name	Latitude	Longitude
		R-SV27454LM	Ground surface in EC	Multiple - see map	Multiple - see map
SECTION 2. LINE DRAWING (40 CFR 122.21(G)(2))					
Line Drawing	<u>2.1</u>	Have you attached a line drawing to this application that shows the water flow through your facility with a water balance? (See instructions for drawing requirements. See Exhibit 2C-1 at end of instructions for example.) ☐ Yes			
SECTION 3. AVERAGE FLOWS AND TREATMENT (40 CFR 122.21(G)(3))					
Average Flows and Treatment	<u>3.1</u>	For each outfall identified under Item 1.1, provide average flow and treatment information. Add additional sheets if necessary.			
		Outfall Number SV27454LM			
		Operations Contributing to Flow			
		Operation	Average Flow		
		B outfall Tanks	mgd		
			mgd		
			mgd		
			mgd		
		Treatment Units			
		Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Exhibit 2C-2	Final Disposal of Solid or Liquid Wastes Other Than by Discharge	

EPA Identification Number		NPDES Permit Number		Facility Name Quantum Frederick		OMB No. 2040-0004 Expires 07/31/2026			
Average Flows and Treatment Continued	3.1 cont.	**Outfall Number** _____							
		Operations Contributing to Flow							
		Operation			Average Flow				
					mgd				
					mgd				
					mgd				
					mgd				
		Treatment Units							
		Description (include size, flow rate through each treatment unit, retention time, etc.)			Code from Exhibit 2C-2		Final Disposal of Solid or Liquid Wastes Other Than by Discharge		
		Outfall Number _____							
		Operations Contributing to Flow							
		Operation			Average Flow				
					mgd				
					mgd				
					mgd				
					mgd				
		Treatment Units							
		Description (include size, flow rate through each treatment unit, retention time, etc.)			Code from Exhibit 2C-2		Final Disposal of Solid or Liquid Wastes Other Than by Discharge		
		System Users	3.2	Are you applying for an NPDES permit to operate a privately owned treatment works? ☐ Yes ☒ No → SKIP to Section 4.					
			3.3	Have you attached a list that identifies each user of the treatment works? ☐ Yes					

EPA Identification Number		NPDES Permit Number		Facility Name Quantum Frederick		OMB No. 2040-0004 Expires 07/31/2026		
SECTION 4. INTERMITTENT FLOWS (40 CFR 122.21(G)(4))								
Intermittent Flows	4.1	Except for storm runoff, leaks, or spills, are any discharges described in Sections 1 and 3 intermittent or seasonal? ☐ Yes ☒ No → SKIP to Section 5.						
	4.2	Provide information on intermittent or seasonal flows for each applicable outfall. Attach additional pages, if necessary.						
		Outfall Number	Operation (list)	Frequency		Flow Rate		Duration
				Average Days/Week	Average Months/Year	Long-Term Average	Maximum Daily	
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
SECTION 5. PRODUCTION (40 CFR 122.21(G)(5))								
Applicable ELGs	5.1	Do any effluent limitation guidelines (ELGs) promulgated by EPA under Section 304 of the CWA apply to your facility? ☐ Yes ☒ No → SKIP to Section 6.						
	5.2	Provide the following information on applicable ELGs.						
		ELG Category	ELG Subcategory				Regulatory Citation	
Production-Based Limitations	5.3	Are any of the applicable ELGs expressed in terms of production (or other measure of operation)? ☐ Yes ☒ No → SKIP to Section 6.						
	5.4	Provide an actual measure of daily production expressed in terms and units of applicable ELGs.						
		Outfall Number	Operation, Product, or Material			Quantity per Day	Unit of Measure	

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	5.5	Are you requesting alternative limits based on an anticipated increase in the actual production during the next permit term? (Consult with your NPDES permitting authority to determine what information needs to be submitted and when.)
		☐ Yes ☐ No

SECTION 6. IMPROVEMENTS (40 CFR 122.21(G)(6))

Upgrades and Improvements	6.1	Are you presently required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application?																						
		☐ Yes ☒ No → SKIP to Item 6.3.																						
	6.2	Briefly identify each applicable project in the table below.																						
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th rowspan="2" style="width: 40%;">Brief Identification and Description of Project</th> <th rowspan="2" style="width: 15%;">Affected Outfalls (list outfall number)</th> <th rowspan="2" style="width: 20%;">Source(s) of Discharge</th> <th colspan="2" style="width: 25%;">Final Compliance Dates</th> </tr> <tr> <th style="width: 10%;">Required</th> <th style="width: 15%;">Projected</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>		Brief Identification and Description of Project	Affected Outfalls (list outfall number)	Source(s) of Discharge	Final Compliance Dates		Required	Projected															
	Brief Identification and Description of Project	Affected Outfalls (list outfall number)				Source(s) of Discharge	Final Compliance Dates																	
Required			Projected																					
6.3	Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? (<i>optional item</i>)																							
	☐ Yes ☐ No ☒ Not applicable																							

SECTION 7. EFFLUENT AND INTAKE CHARACTERISTICS (40 CFR 122.21(G)(7))

Effluent and Intake Characteristics	See the instructions to determine the pollutants and parameters you are required to monitor and, in turn, the tables you must complete. Not all applicants need to complete each table.	
	Table A. Conventional and Non-Conventional Pollutants	
	7.1	Are you requesting a waiver from your NPDES permitting authority for any Table A pollutants for any of your outfalls?
		☐ Yes ☒ No → SKIP to Item 7.3.
	7.2	If yes, indicate the applicable outfalls below or check the appropriate box to indicate that you are requesting a waiver for all outfalls. Attach waiver request and other required information to the application.
		Outfall number _____ Outfall number _____ Outfall number _____
		☐ I am requesting a waiver for some pollutants at all outfalls. ☐ I am requesting a waiver for all pollutants at all outfalls → SKIP to Item 7.4.
	7.3	Have you completed monitoring for all Table A pollutants at each of your outfalls for which a waiver has not been requested and attached the results to this application package?
	☐ Yes	
Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants		
7.4	Do any of the facility's processes that contribute wastewater fall into one or more of the primary industry categories listed in Exhibit 2C-3? (See end of instructions for exhibit.)	
	☐ Yes ☒ No → SKIP to Item 7.8.	
7.5	Have you checked "Testing Required" for all toxic metals, cyanide, and total phenols in Section 1 of Table B?	
	☐ Yes	

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	7.6	List the applicable primary industry categories and check the boxes indicating the required GC/MS fraction(s) identified in Exhibit 2C-3.						
		Primary Industry Category			Required GC/MS Fraction(s) (check applicable boxes)			
					☐ Volatile	☐ Acid	☐ Base/neutral	☐ Pesticide
					☐ Volatile	☐ Acid	☐ Base/neutral	☐ Pesticide
					☐ Volatile	☐ Acid	☐ Base/neutral	☐ Pesticide
Effluent and Intake Characteristics Continued	7.7	Have you checked "Testing Required" for all required pollutants in Sections 2 through 5 of Table B for each of the GC/MS fractions checked in Item 7.6? ☐ Yes						
	7.8	Have you checked "Believed Present" or "Believed Absent" for all pollutants listed in Sections 1 through 5 of Table B where testing is not required? ☐ Yes						
	7.9	Have you provided (1) quantitative data for those Section 1, Table B, pollutants for which you have indicated testing is required or (2) quantitative data or other required information for those Section 1, Table B, pollutants that you have indicated are "Believed Present" in your discharge? ☐ Yes						
	7.10	Does the applicant qualify for a small business exemption under the criteria specified in the instructions? ☐ Yes → Note that you qualify at the top of Table B, then SKIP to Item 7.12. ☒ No						
	7.11	Have you provided (1) quantitative data for those Sections 2 through 5, Table B, pollutants for which you have determined testing is required or (2) quantitative data or an explanation for those Sections 2 through 5, Table B, pollutants you have indicated are "Believed Present" in your discharge? ☒ Yes						
	Table C. Certain Conventional and Non-Conventional Pollutants							
	7.12	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table C for all outfalls? ☒ Yes						
	7.13	Have you completed Table C by providing quantitative data for those pollutants that are limited either directly or indirectly in an ELG? You must provide quantitative data even if the pollutant is "Believed Absent." ☐ Yes ☒ Not applicable						
	7.14	Have you completed Table C by providing quantitative data or an explanation for those pollutants for which you have indicated "Believed Present"? ☒ Yes						
	Table D. Certain Hazardous Substances and Asbestos							
	7.15	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table D for all outfalls? ☒ Yes						
	7.16	Have you completed Table D by (1) describing the reasons the applicable pollutants are expected to be discharged and (2) providing quantitative data, if available? ☒ Yes ☐ No						
	Table E. 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (2,3,7,8-TCDD)							
7.17	Does the facility use or manufacture one or more of the 2,3,7,8-TCDD congeners listed in the instructions, or do you know or have reason to believe that TCDD is or may be present in the effluent? ☐ Yes → Complete Table E. ☒ No → SKIP to Section 8.							
7.18	Have you completed Table E by reporting <i>qualitative</i> data for TCDD? ☐ Yes							

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SECTION 8. USED OR MANUFACTURED TOXICS (40 CFR 122.21(G)(9))

Used or Manufactured Toxics	8.1	Is any pollutant listed in Table B a substance or a component of a substance used or manufactured at your facility as an intermediate or final product or byproduct? ☐ Yes ☒ No → SKIP to Section 9.	
	8.2	List the pollutants below. Attach additional sheets, if necessary.	
		1. 4. 7.	
		2. 5. 8.	
		3. 6. 9.	

SECTION 9. BIOLOGICAL TOXICITY TESTS (40 CFR 122.21(G)(11))

Biological Toxicity Tests	9.1	Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made within the last three years on (1) any of your discharges or (2) a receiving water in relation to your discharge? ☐ Yes ☒ No → SKIP to Section 10.		
	9.2	Identify the tests and their purposes below.		
		Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?
				☐ Yes ☐ No
				☐ Yes ☐ No
			☐ Yes ☐ No	

SECTION 10. CONTRACT ANALYSES (40 CFR 122.21(G)(12))

Contract Analyses	10.1	Were any of the analyses reported in Section 7 performed by a contract laboratory or consulting firm? ☒ Yes ☐ No → SKIP to Section 11.			
	10.2	Provide information for each contract laboratory or consulting firm below.			
			Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
		Name of laboratory/firm	Eurofins Lancaster Laboratories Environment Testing, LLC		
		Laboratory address	2425 New Holland Pike, Lancaster, PA		
		Phone number	(412) 525-0071		
	Pollutant(s) analyzed	VOCs, SVOCs, GRO/DRO, PCBs, Anions, Metals/Mercury, pH, free cyanide			

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SECTION 11. ADDITIONAL INFORMATION (40 CFR 122.21(G)(13))							
Additional Information	<u>11.1</u>	Has the NPDES permitting authority requested additional information? ☐ Yes ☒ No → SKIP to Section 12.					
	<u>11.2</u>	List the information requested and attach it to this application.					
	1.						4.
	2.						5.
	3.						6.
SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(A) AND (D))							
Checklist and Certification Statement	<u>12.1</u>	In Column 1 below, mark the sections of Form 2C that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to complete all sections or provide attachments.					
		Column 1		Column 2			
	☒	Section 1: Outfall Location		☒ w/ attachments			
	☐	Section 2: Line Drawing		☐ w/ line drawing		☐ w/ additional attachments	
	☐	Section 3: Average Flows and Treatment		☐ w/ attachments		☐ w/ list of each user of privately owned treatment works	
	☐	Section 4: Intermittent Flows		☐ w/ attachments			
	☐	Section 5: Production		☐ w/ attachments			
	☐	Section 6: Improvements		☐ w/ attachments		☐ w/ optional additional sheets describing any additional pollution control plans	
	☒	Section 7: Effluent and Intake Characteristics		☒ w/ request for a waiver and supporting information ☐ w/ small business exemption request ☒ w/ Table A ☒ w/ Table C ☒ w/ Table E		☐ w/ explanation for identical outfalls ☐ w/ other attachments ☒ w/ Table B ☒ w/ Table D ☒ w/ analytical results as an attachment	
	☐	Section 8: Used or Manufactured Toxics		☐ w/ attachments			
	☐	Section 9: Biological Toxicity Tests		☐ w/ attachments			
	☒	Section 10: Contract Analyses		☐ w/ attachments			
	☐	Section 11: Additional Information		☐ w/ attachments			
	☒	Section 12: Checklist and Certification Statement		☐ w/ attachments			

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SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d)) (Continued)

Checklist and Certification Statement	12.2	Provide the following certification. (See instructions to determine the appropriate person to sign the application.)	
		Certification Statement <i>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</i>	
		Name (print or type first and last name) Joshua Mullis	Official title Project Manager
		Signature 	Date signed 6/20/2025

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
		Quantum Frederick	QM-R-SV27454LM

TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii))¹

Pollutant	Waiver Requested (if applicable)	Units (specify)	Effluent				Intake (optional)	
			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
☒ Check here if you have applied to your NPDES permitting authority for a waiver for all of the pollutants listed on this table for the noted outfall.								
1. Biochemical oxygen demand (BOD ₅)	☐	Concentration						
		Mass						
2. Chemical oxygen demand (COD)	☐	Concentration						
		Mass						
3. Total organic carbon (TOC)	☐	Concentration						
		Mass						
4. Total suspended solids (TSS)	☐	Concentration						
		Mass						
5. Ammonia (as N)	☐	Concentration						
		Mass						
6. Flow	☐	Rate						
Temperature (winter)	☐	°C						
Temperature (summer)	☒	°C	21.3					
pH (minimum)	☒	Standard units	7.8					
pH (maximum)	☒	Standard units	7.8					

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
☐ Check here if you qualify as a small business per the instructions to Form 2C and, therefore, do not need to submit quantitative data for any of the organic toxic pollutants in Sections 2 through 5 of this table. Note, however, that you must still indicate in the appropriate column of this table if you believe any of the pollutants listed are present in your discharge.										
Section 1. Toxic Metals, Cyanide, and Total Phenols										
1.1 Antimony, total (7440-36-0)	☐	☐	☒	Concentration Mass	ug/L	< 0.20 U				
1.2 Arsenic, total (7440-38-2)	☐	☐	☒	Concentration Mass	ug/L	< 0.68 U				
1.3 Beryllium, total (7440-41-7)	☐	☐	☒	Concentration Mass	ug/L	< 0.12 U				
1.4 Cadmium, total (7440-43-9)	☒	☐	☒	Concentration Mass	ug/L	< 0.15 U				
1.5 Chromium, total (7440-47-3)	☐	☐	☒	Concentration Mass	ug/L	< 0.55 U				
1.6 Copper, total (7440-50-8)	☐	☐	☒	Concentration Mass	ug/L	< 0.85 U				
1.7 Lead, total (7439-92-1)	☒	☒	☐	Concentration Mass	ug/L	0.25 J				
1.8 Mercury, total (7439-97-6)	☐	☐	☒	Concentration Mass	ug/L	< 0.087 U				
1.9 Nickel, total (7440-02-0)	☐	☒	☐	Concentration Mass	ug/L	0.56 J				
1.10 Selenium, total (7782-49-2)	☐	☒	☐	Concentration Mass	ug/L	0.33 J				
1.11 Silver, total (7440-22-4)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
1.12 Thallium, total (7440-28-0)	☐	☐	☒	Concentration Mass	ug/L	< 0.13 U				
1.13 Zinc, total (7440-66-6)	☐	☐	☒	Concentration Mass	ug/L	< 4.0 U				
1.14 Cyanide, total (57-12-5)	☒	☐	☒	Concentration Mass	mg/L	< 0.005 U free cyanide				
1.15 Phenols, total	☐	☐	☒	Concentration Mass						
Section 2. Organic Toxic Pollutants (GC/MS Fraction—Volatile Compounds)										
2.1 Acrolein (107-02-8)	☐	☐	☒	Concentration Mass						
2.2 Acrylonitrile (107-13-1)	☐	☐	☒	Concentration Mass						
2.3 Benzene (71-43-2)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				
2.4 Bromoform (75-25-2)	☐	☐	☒	Concentration Mass						
2.5 Carbon tetrachloride (56-23-5)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				
2.6 Chlorobenzene (108-90-7)	☐	☐	☒	Concentration Mass	ug/L	< 0.07 U				
2.7 Chlorodibromomethane (124-48-1)	☐	☐	☒	Concentration Mass						
2.8 Chloroethane (75-00-3)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
2.9 2-chloroethylvinyl ether (110-75-8)	☐	☐	☒	Concentration Mass						
2.10 Chloroform (67-66-3)	☐	☐	☒	Concentration Mass	ug/L	< 0.09 U				
2.11 Dichlorobromomethane (75-27-4)	☐	☐	☒	Concentration Mass						
2.12 1,1-dichloroethane (75-34-3)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				
2.13 1,2-dichloroethane (107-06-2)	☐	☐	☒	Concentration Mass	ug/L	< 0.07 U				
2.14 1,1-dichloroethylene (75-35-4)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				
2.15 1,2-dichloropropane (78-87-5)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				
2.16 1,3-dichloropropylene (542-75-6)	☐	☐	☒	Concentration Mass						
2.17 Ethylbenzene (100-41-4)	☐	☐	☒	Concentration Mass	ug/L	< 0.08 U				
2.18 Methyl bromide (74-83-9)	☐	☐	☒	Concentration Mass						
2.19 Methyl chloride (74-87-3)	☐	☐	☒	Concentration Mass						
2.20 Methylene chloride (75-09-2)	☐	☐	☒	Concentration Mass	ug/L	< 0.2 U				
2.21 1,1,2,2- tetrachloroethane (79-34-5)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
2.22 Tetrachloroethylene (127-18-4)	☐	☐	☒	Concentration Mass	< 0.20 U					
2.23 Toluene (108-88-3)	☐	☒	☐	Concentration Mass	1.5					
2.24 1,2-trans-dichloroethylene (156-60-5)	☐	☐	☒	Concentration Mass						
2.25 1,1,1-trichloroethane (71-55-6)	☐	☐	☒	Concentration Mass	< 0.08 U					
2.26 1,1,2-trichloroethane (79-00-5)	☐	☐	☒	Concentration Mass	< 0.08 U					
2.27 Trichloroethylene (79-01-6)	☐	☐	☒	Concentration Mass						
2.28 Vinyl chloride (75-01-4)	☐	☐	☒	Concentration Mass	< 0.02 U					

Section 3. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds)

3.1 2-chlorophenol (95-57-8)	☐	☐	☒	Concentration Mass						
3.2 2,4-dichlorophenol (120-83-2)	☐	☐	☒	Concentration Mass						
3.3 2,4-dimethylphenol (105-67-9)	☐	☐	☒	Concentration Mass						
3.4 4,6-dinitro-o-cresol (534-52-1)	☐	☐	☒	Concentration Mass						
3.5 2,4-dinitrophenol (51-28-5)	☐	☐	☒	Concentration Mass						

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
3.6 2-nitrophenol (88-75-5)	☐	☐	☒	Concentration Mass						
3.7 4-nitrophenol (100-02-7)	☐	☐	☒	Concentration Mass						
3.8 p-chloro-m-cresol (59-50-7)	☐	☐	☒	Concentration Mass						
3.9 Pentachlorophenol (87-86-5)	☐	☐	☒	Concentration Mass						
3.10 Phenol (108-95-2)	☐	☐	☒	Concentration Mass						
3.11 2,4,6-trichlorophenol (88-05-2)	☐	☐	☒	Concentration Mass						

Section 4. Organic Toxic Pollutants (GC/MS Fraction—Base /Neutral Compounds)

4.1 Acenaphthene (83-32-9)	☒	☐	☒	Concentration Mass	ug/L	< 0.01 U				
4.2 Acenaphthylene (208-96-8)	☒	☐	☒	Concentration Mass	ug/L	< 0.01 U				
4.3 Anthracene (120-12-7)	☒	☐	☒	Concentration Mass	ug/L	< 0.01 U				
4.4 Benzidine (92-87-5)	☐	☐	☒	Concentration Mass						
4.5 Benzo (a) anthracene (56-55-3)	☒	☐	☒	Concentration Mass	ug/L	< 0.01 U				
4.6 Benzo (a) pyrene (50-32-8)	☒	☐	☒	Concentration Mass	ug/L	< 0.01 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.7 3,4-benzofluoranthene (205-99-2)	☐	☐	☒	Concentration Mass						
4.8 Benzo (ghi) perylene (191-24-2)	☐	☐	☒	Concentration Mass	ug/L	< 0.010 U				
4.9 Benzo (k) fluoranthene (207-08-9)	☐	☐	☒	Concentration Mass	ug/L	< 0.010 U				
4.10 Bis (2-chloroethoxy) methane (111-91-1)	☐	☐	☒	Concentration Mass						
4.11 Bis (2-chloroethyl) ether (111-44-4)	☐	☐	☒	Concentration Mass						
4.12 Bis (2-chloroisopropyl) ether (102-80-1)	☐	☐	☒	Concentration Mass						
4.13 Bis (2-ethylhexyl) phthalate (117-81-7)	☐	☐	☒	Concentration Mass						
4.14 4-bromophenyl phenyl ether (101-55-3)	☐	☐	☒	Concentration Mass						
4.15 Butyl benzyl phthalate (85-68-7)	☐	☐	☒	Concentration Mass						
4.16 2-chloronaphthalene (91-58-7)	☐	☐	☒	Concentration Mass						
4.17 4-chlorophenyl phenyl ether (7005-72-3)	☐	☐	☒	Concentration Mass						
4.18 Chrysene (218-01-9)	☐	☐	☒	Concentration Mass	ug/L	< 0.026 U				
4.19 Dibenzo (a,h) anthracene (53-70-3)	☐	☐	☒	Concentration Mass	ug/L	< 0.02 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent							
4.20 1,2-dichlorobenzene (95-50-1)	☐	☐	☒	Concentration ug/L	Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
				Mass	< 0.07 U					
4.21 1,3-dichlorobenzene (541-73-1)	☐	☐	☒	Concentration ug/L	< 0.07 U					
				Mass						
4.22 1,4-dichlorobenzene (106-46-7)	☐	☐	☒	Concentration ug/L	< 0.07 U					
				Mass						
4.23 3,3-dichlorobenzidine (91-94-1)	☐	☐	☒	Concentration						
				Mass						
4.24 Diethyl phthalate (84-66-2)	☐	☐	☒	Concentration						
				Mass						
4.25 Dimethyl phthalate (131-11-3)	☐	☐	☒	Concentration						
				Mass						
4.26 Di-n-butyl phthalate (84-74-2)	☐	☐	☒	Concentration						
				Mass						
4.27 2,4-dinitrotoluene (121-14-2)	☐	☐	☒	Concentration						
				Mass						
4.28 2,6-dinitrotoluene (606-20-2)	☐	☐	☒	Concentration						
				Mass						
4.29 Di-n-octyl phthalate (117-84-0)	☐	☐	☒	Concentration						
				Mass						
4.30 1,2-Diphenylhydrazine (as azobenzene) (122-66-7)	☐	☐	☒	Concentration						
				Mass						
4.31 Fluoranthene (206-44-0)	☐	☐	☒	Concentration ug/L	< 0.024 U					
				Mass						
4.32 Fluorene (86-73-7)	☐	☐	☒	Concentration ug/L	< 0.01 U					
				Mass						

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.33 Hexachlorobenzene (118-74-1)	☐	☐	☒	Concentration Mass						
4.34 Hexachlorobutadiene (87-68-3)	☐	☐	☒	Concentration Mass						
4.35 Hexachlorocyclopentadiene (77-47-4)	☐	☐	☒	Concentration Mass						
4.36 Hexachloroethane (67-72-1)	☐	☐	☒	Concentration Mass						
4.37 Indeno (1,2,3-cd) pyrene (193-39-5)	☐	☐	☒	Concentration Mass	ug/L	< 0.02 U				
4.38 Isophorone (78-59-1)	☐	☐	☒	Concentration Mass						
4.39 Naphthalene (91-20-3)	☒	☐	☒	Concentration Mass	ug/L	< 0.07 U				
4.40 Nitrobenzene (98-95-3)	☐	☐	☒	Concentration Mass						
4.41 N-nitrosodimethylamine (62-75-9)	☐	☐	☒	Concentration Mass						
4.42 N-nitrosodi-n-propylamine (621-64-7)	☐	☐	☒	Concentration Mass						
4.43 N-nitrosodiphenylamine (86-30-6)	☐	☐	☒	Concentration Mass						
4.44 Phenanthrene (85-01-8)	☐	☐	☒	Concentration Mass	ug/L	< 0.031 U				
4.45 Pyrene (129-00-0)	☐	☐	☒	Concentration Mass	ug/L	< 0.022 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent							
4.46 1,2,4-trichlorobenzene (120-82-1)	☐	☐	☒	Concentration ug/L	Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
Section 5. Organic Toxic Pollutants (GC/MS Fraction—Pesticides)										
5.1 Aldrin (309-00-2)	☐	☐	☒	Concentration Mass						
5.2 α -BHC (319-84-6)	☐	☐	☒	Concentration Mass						
5.3 β -BHC (319-85-7)	☐	☐	☒	Concentration Mass						
5.4 γ -BHC (58-89-9)	☐	☐	☒	Concentration Mass						
5.5 δ -BHC (319-86-8)	☐	☐	☒	Concentration Mass						
5.6 Chlordane (57-74-9)	☐	☐	☒	Concentration Mass						
5.7 4,4'-DDT (50-29-3)	☐	☐	☒	Concentration Mass						
5.8 4,4'-DDE (72-55-9)	☐	☐	☒	Concentration Mass						
5.9 4,4'-DDD (72-54-8)	☐	☐	☒	Concentration Mass						
5.10 Dieldrin (60-57-1)	☐	☐	☒	Concentration Mass						
5.11 α -endosulfan (115-29-7)	☐	☐	☒	Concentration Mass						

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
5.12 β-endosulfan (115-29-7)	☐	☐	☒	Concentration Mass						
5.13 Endosulfan sulfate (1031-07-8)	☐	☐	☒	Concentration Mass						
5.14 Endrin (72-20-8)	☐	☐	☒	Concentration Mass						
5.15 Endrin aldehyde (7421-93-4)	☐	☐	☒	Concentration Mass						
5.16 Heptachlor (76-44-8)	☐	☐	☒	Concentration Mass						
5.17 Heptachlor epoxide (1024-57-3)	☐	☐	☒	Concentration Mass						
5.18 PCB-1242 (53469-21-9)	☒	☐	☒	Concentration Mass	ug/L	< 0.0076 U				
5.19 PCB-1254 (11097-69-1)	☒	☐	☒	Concentration Mass	ug/L	< 0.0047 U				
5.20 PCB-1221 (11104-28-2)	☒	☐	☒	Concentration Mass	ug/L	< 0.0076 U				
5.21 PCB-1232 (11141-16-5)	☒	☐	☒	Concentration Mass	ug/L	< 0.0076 U				
5.22 PCB-1248 (12672-29-6)	☒	☐	☒	Concentration Mass	ug/L	< 0.0076 U				
5.23 PCB-1260 (11096-82-5)	☒	☐	☒	Concentration Mass	ug/L	< 0.0047 U				
5.24 PCB-1016 (12674-11-2)	☒	☐	☒	Concentration Mass	ug/L	< 0.0076 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) ¹										
Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
5.25 Toxaphene (8001-35-2)	☐	☐	☒	Concentration						
				Mass						

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

	Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
☐ Check here if you believe all pollutants in Table C to be present in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for each pollutant.										
☐ Check here if you believe all pollutants in Table C to be absent in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for each pollutant.										
1.	Bromide (24959-67-9)	☐	☒	Concentration Mass						
2.	Chlorine, total residual	☐	☒	Concentration Mass						
3.	Color	☐	☒	Concentration Mass						
4.	Fecal coliform	☐	☒	Concentration Mass						
5.	Fluoride (16984-48-8)	☒	☐	Concentration Mass	mg/L	0.34				
6	Nitrate-nitrite	☐	☒	Concentration Mass						
7.	Nitrogen, total organic (as N)	☐	☒	Concentration Mass						
8.	Oil and grease	☐	☒	Concentration Mass						
9.	Phosphorus (as P), total (7723-14-0)	☐	☒	Concentration Mass						
10.	Sulfate (as SO ₄) (14808-79-8)	☐	☒	Concentration Mass						
11.	Sulfide (as S)	☐	☒	Concentration Mass						

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
12. Sulfite (as SO ₃) (14265-45-3)	☐	☒	Concentration Mass						
13. Surfactants	☐	☒	Concentration Mass						
14. Aluminum, total (7429-90-5)	☒	☐	Concentration Mass	310					
15. Barium, total (7440-39-3)	☒	☐	Concentration Mass	45					
16. Boron, total (7440-42-8)	☐	☒	Concentration Mass						
17. Cobalt, total (7440-48-4)	☒	☐	Concentration Mass	0.60					
18. Iron, total (7439-89-6)	☒	☐	Concentration Mass	270					
19. Magnesium, total (7439-95-4)	☒	☐	Concentration Mass	9500					
20. Molybdenum, total (7439-98-7)	☐	☒	Concentration Mass						
21. Manganese, total (7439-96-5)	☒	☐	Concentration Mass	94					
22. Tin, total (7440-31-5)	☐	☒	Concentration Mass						
23. Titanium, total (7440-32-6)	☐	☒	Concentration Mass						

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
24. Radioactivity									
Alpha, total	☐	☒	Concentration Mass						
Beta, total	☐	☒	Concentration Mass						
Radium, total	☐	☒	Concentration Mass						
Radium 226, total	☐	☒	Concentration Mass						

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number	NPDES Permit Number	Facility Name Quantum Frederick	Outfall Number QM-R-SV27454LM	OMB No. 2040-0004 Expires 07/31/2026

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹				
Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
1. Asbestos	☐	☒		
2. Acetaldehyde	☐	☒		
3. Allyl alcohol	☐	☒		
4. Allyl chloride	☐	☒		
5. Amyl acetate	☐	☒		
6. Aniline	☐	☒		
7. Benzotrile	☐	☒		
8. Benzyl chloride	☐	☒		
9. Butyl acetate	☐	☒		
10. Butylamine	☐	☒		
11. Captan	☐	☒		
12. Carbaryl	☐	☒		
13. Carbofuran	☐	☒		
14. Carbon disulfide	☐	☒		
15. Chlorpyrifos	☐	☒		
16. Coumaphos	☐	☒		
17. Cresol	☐	☒		
18. Crotonaldehyde	☐	☒		
19. Cyclohexane	☐	☒		0.1 ug/L U

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
20. 2,4-D (2,4-dichlorophenoxyacetic acid)	☐	☒		
21. Diazinon	☐	☒		
22. Dicamba	☐	☒		
23. Dichlobenil	☐	☒		
24. Diclhone	☐	☒		
25. 2,2-dichloropropionic acid	☐	☒		
26. Dichlorvos	☐	☒		
27. Diethyl amine	☐	☒		
28. Dimethyl amine	☐	☒		
29. Dinitrobenzene	☐	☒		
30. Diquat	☐	☒		
31. Disulfoton	☐	☒		
32. Diuron	☐	☒		
33. Epichlorohydrin	☐	☒		
34. Ethion	☐	☒		
35. Ethylene diamine	☐	☒		
36. Ethylene dibromide	☐	☒		
37. Formaldehyde	☐	☒		
38. Furfural	☐	☒		

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
39. Guthion	☐	☒		
40. Isoprene	☐	☒		
41. Isopropanolamine	☐	☒		
42. Kelthane	☐	☒		
43. Kepone	☐	☒		
44. Malathion	☐	☒		
45. Mercaptodimethur	☐	☒		
46. Methoxychlor	☐	☒		
47. Methyl mercaptan	☐	☒		
48. Methyl methacrylate	☐	☒		
49. Methyl parathion	☐	☒		
50. Mevinphos	☐	☒		
51. Mexacarbate	☐	☒		
52. Monoethyl amine	☐	☒		
53. Monomethyl amine	☐	☒		
54. Naled	☐	☒		
55. Naphthenic acid	☐	☒		
56. Nitrotoluene	☐	☒		
57. Parathion	☐	☒		

EPA Identification Number	NPDES Permit Number	Facility Name Quantum Frederick	Outfall Number QM-R-SV27454LM	OMB No. 2040-0004 Expires 07/31/2026

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
58. Phenolsulfonate	☐	☒		
59. Phosgene	☐	☒		
60. Propargite	☐	☒		
61. Propylene oxide	☐	☒		
62. Pyrethrins	☐	☒		
63. Quinoline	☐	☒		
64. Resorcinol	☐	☒		
65. Strontium	☐	☒		
66. Strychnine	☐	☒		
67. Styrene	☐	☒		< 0.07 ug/L U
68. 2,4,5-T (2,4,5-trichlorophenoxyacetic acid)	☐	☒		
69. TDE (tetrachlorodiphenyl ethane)	☐	☒		
70. 2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic acid]	☐	☒		
71. Trichlorofon	☐	☒		
72. Triethanolamine	☐	☒		
73. Triethylamine	☐	☒		
74. Trimethylamine	☐	☒		
75. Uranium	☐	☐		
76. Vanadium	☐	☒		

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹				
Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
77. Vinyl acetate	☐	☒		
78. Xylene	☐	☒		
79. Xylenol	☐	☒		
80. Zirconium	☐	☒		

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE E. 2,3,7,8 TETRACHLORODIBENZO P DIOXIN (2,3,7,8 TCDD) (40 CFR 122.21(g)(7)(viii))				
Pollutant	TCDD Congeners Used or Manufactured	Presence or Absence (check one)		Results of Screening Procedure
		Believed Present	Believed Absent	
2,3,7,8-TCDD	☐	☐	☒	

EPA Identification Number		NPDES Permit Number		Facility Name Quantum Frederick		OMB No. 2040-0004 Expires 07/31/2026	
Form 2C NPDES			U.S. Environmental Protection Agency Application for NPDES Permit to Discharge Wastewater EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURE OPERATIONS				
SECTION 1. OUTFALL LOCATION (40 CFR 122.21(G)(1))							
Outfall Location	<u>1.1</u>	Provide information on each of the facility's outfalls in the table below.					
		Outfall Number	Receiving Water Name	Latitude		Longitude	
		SV27472LM	Ground surface in EC	Multiple - see map		Multiple - see map	
SECTION 2. LINE DRAWING (40 CFR 122.21(G)(2))							
Line Drawing	<u>2.1</u>	Have you attached a line drawing to this application that shows the water flow through your facility with a water balance? (See instructions for drawing requirements. See Exhibit 2C-1 at end of instructions for example.) ☐ Yes					
SECTION 3. AVERAGE FLOWS AND TREATMENT (40 CFR 122.21(G)(3))							
Average Flows and Treatment	<u>3.1</u>	For each outfall identified under Item 1.1, provide average flow and treatment information. Add additional sheets if necessary.					
		Outfall Number SV27472LM					
		Operations Contributing to Flow					
		Operation			Average Flow		
		B outfall Tanks			mgd		
					mgd		
					mgd		
					mgd		
		Treatment Units					
		Description (include size, flow rate through each treatment unit, retention time, etc.)		Code from Exhibit 2C-2		Final Disposal of Solid or Liquid Wastes Other Than by Discharge	

EPA Identification Number		NPDES Permit Number		Facility Name Quantum Frederick		OMB No. 2040-0004 Expires 07/31/2026			
Average Flows and Treatment Continued	3.1 cont.	**Outfall Number** _____							
		Operations Contributing to Flow							
		Operation			Average Flow				
					mgd				
					mgd				
					mgd				
					mgd				
		Treatment Units							
		Description (include size, flow rate through each treatment unit, retention time, etc.)			Code from Exhibit 2C-2		Final Disposal of Solid or Liquid Wastes Other Than by Discharge		
		Outfall Number _____							
		Operations Contributing to Flow							
		Operation			Average Flow				
					mgd				
					mgd				
					mgd				
					mgd				
		Treatment Units							
		Description (include size, flow rate through each treatment unit, retention time, etc.)			Code from Exhibit 2C-2		Final Disposal of Solid or Liquid Wastes Other Than by Discharge		
		System Users	3.2	Are you applying for an NPDES permit to operate a privately owned treatment works? ☐ Yes ☒ No → SKIP to Section 4.					
			3.3	Have you attached a list that identifies each user of the treatment works? ☐ Yes					

EPA Identification Number		NPDES Permit Number		Facility Name Quantum Frederick		OMB No. 2040-0004 Expires 07/31/2026		
SECTION 4. INTERMITTENT FLOWS (40 CFR 122.21(G)(4))								
Intermittent Flows	4.1	Except for storm runoff, leaks, or spills, are any discharges described in Sections 1 and 3 intermittent or seasonal? ☐ Yes ☒ No → SKIP to Section 5.						
	4.2	Provide information on intermittent or seasonal flows for each applicable outfall. Attach additional pages, if necessary.						
		Outfall Number	Operation (list)	Frequency		Flow Rate		Duration
				Average Days/Week	Average Months/Year	Long-Term Average	Maximum Daily	
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
SECTION 5. PRODUCTION (40 CFR 122.21(G)(5))								
Applicable ELGs	5.1	Do any effluent limitation guidelines (ELGs) promulgated by EPA under Section 304 of the CWA apply to your facility? ☐ Yes ☒ No → SKIP to Section 6.						
	5.2	Provide the following information on applicable ELGs.						
		ELG Category	ELG Subcategory				Regulatory Citation	
Production-Based Limitations	5.3	Are any of the applicable ELGs expressed in terms of production (or other measure of operation)? ☐ Yes ☒ No → SKIP to Section 6.						
	5.4	Provide an actual measure of daily production expressed in terms and units of applicable ELGs.						
		Outfall Number	Operation, Product, or Material			Quantity per Day	Unit of Measure	

EPA Identification Number	NPDES Permit Number	Facility Name Quantum Frederick	OMB No. 2040-0004 Expires 07/31/2026	

	5.5	Are you requesting alternative limits based on an anticipated increase in the actual production during the next permit term? (Consult with your NPDES permitting authority to determine what information needs to be submitted and when.)
		☐ Yes ☐ No

SECTION 6. IMPROVEMENTS (40 CFR 122.21(G)(6))

Upgrades and Improvements	6.1	Are you presently required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application?																						
		☐ Yes ☒ No → SKIP to Item 6.3.																						
	6.2	Briefly identify each applicable project in the table below.																						
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th rowspan="2" style="width: 45%;">Brief Identification and Description of Project</th> <th rowspan="2" style="width: 15%;">Affected Outfalls (list outfall number)</th> <th rowspan="2" style="width: 20%;">Source(s) of Discharge</th> <th colspan="2" style="width: 20%;">Final Compliance Dates</th> </tr> <tr> <th style="width: 10%;">Required</th> <th style="width: 10%;">Projected</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>		Brief Identification and Description of Project	Affected Outfalls (list outfall number)	Source(s) of Discharge	Final Compliance Dates		Required	Projected															
	Brief Identification and Description of Project	Affected Outfalls (list outfall number)				Source(s) of Discharge	Final Compliance Dates																	
Required			Projected																					
6.3	Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? (<i>optional item</i>)																							
	☐ Yes ☐ No ☒ Not applicable																							

SECTION 7. EFFLUENT AND INTAKE CHARACTERISTICS (40 CFR 122.21(G)(7))

Effluent and Intake Characteristics	See the instructions to determine the pollutants and parameters you are required to monitor and, in turn, the tables you must complete. Not all applicants need to complete each table.	
	Table A. Conventional and Non-Conventional Pollutants	
	7.1	Are you requesting a waiver from your NPDES permitting authority for any Table A pollutants for any of your outfalls?
		☐ Yes ☒ No → SKIP to Item 7.3.
	7.2	If yes, indicate the applicable outfalls below or check the appropriate box to indicate that you are requesting a waiver for all outfalls. Attach waiver request and other required information to the application.
		Outfall number _____ Outfall number _____ Outfall number _____
		☐ I am requesting a waiver for some pollutants at all outfalls. ☐ I am requesting a waiver for all pollutants at all outfalls → SKIP to Item 7.4.
	7.3	Have you completed monitoring for all Table A pollutants at each of your outfalls for which a waiver has not been requested and attached the results to this application package?
	☐ Yes	
Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants		
7.4	Do any of the facility's processes that contribute wastewater fall into one or more of the primary industry categories listed in Exhibit 2C-3? (See end of instructions for exhibit.)	
	☐ Yes ☒ No → SKIP to Item 7.8.	
7.5	Have you checked "Testing Required" for all toxic metals, cyanide, and total phenols in Section 1 of Table B?	
	☐ Yes	

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	7.6	List the applicable primary industry categories and check the boxes indicating the required GC/MS fraction(s) identified in Exhibit 2C-3.						
		Primary Industry Category			Required GC/MS Fraction(s) (check applicable boxes)			
					☐ Volatile	☐ Acid	☐ Base/neutral	☐ Pesticide
					☐ Volatile	☐ Acid	☐ Base/neutral	☐ Pesticide
					☐ Volatile	☐ Acid	☐ Base/neutral	☐ Pesticide
Effluent and Intake Characteristics Continued	7.7	Have you checked "Testing Required" for all required pollutants in Sections 2 through 5 of Table B for each of the GC/MS fractions checked in Item 7.6? ☐ Yes						
	7.8	Have you checked "Believed Present" or "Believed Absent" for all pollutants listed in Sections 1 through 5 of Table B where testing is not required? ☐ Yes						
	7.9	Have you provided (1) quantitative data for those Section 1, Table B, pollutants for which you have indicated testing is required or (2) quantitative data or other required information for those Section 1, Table B, pollutants that you have indicated are "Believed Present" in your discharge? ☐ Yes						
	7.10	Does the applicant qualify for a small business exemption under the criteria specified in the instructions? ☐ Yes → Note that you qualify at the top of Table B, then SKIP to Item 7.12. ☒ No						
	7.11	Have you provided (1) quantitative data for those Sections 2 through 5, Table B, pollutants for which you have determined testing is required or (2) quantitative data or an explanation for those Sections 2 through 5, Table B, pollutants you have indicated are "Believed Present" in your discharge? ☒ Yes						
	Table C. Certain Conventional and Non-Conventional Pollutants							
	7.12	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table C for all outfalls? ☒ Yes						
	7.13	Have you completed Table C by providing quantitative data for those pollutants that are limited either directly or indirectly in an ELG? You must provide quantitative data even if the pollutant is "Believed Absent." ☐ Yes ☒ Not applicable						
	7.14	Have you completed Table C by providing quantitative data or an explanation for those pollutants for which you have indicated "Believed Present"? ☒ Yes						
	Table D. Certain Hazardous Substances and Asbestos							
	7.15	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table D for all outfalls? ☒ Yes						
	7.16	Have you completed Table D by (1) describing the reasons the applicable pollutants are expected to be discharged and (2) providing quantitative data, if available? ☒ Yes ☐ No						
	Table E. 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (2,3,7,8-TCDD)							
7.17	Does the facility use or manufacture one or more of the 2,3,7,8-TCDD congeners listed in the instructions, or do you know or have reason to believe that TCDD is or may be present in the effluent? ☐ Yes → Complete Table E. ☒ No → SKIP to Section 8.							
7.18	Have you completed Table E by reporting <i>qualitative</i> data for TCDD? ☐ Yes							

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SECTION 8. USED OR MANUFACTURED TOXICS (40 CFR 122.21(G)(9))

Used or Manufactured Toxics	8.1	Is any pollutant listed in Table B a substance or a component of a substance used or manufactured at your facility as an intermediate or final product or byproduct? ☐ Yes ☒ No → SKIP to Section 9.	
	8.2	List the pollutants below. Attach additional sheets, if necessary.	
	1.	4.	7.
	2.	5.	8.
	3.	6.	9.

SECTION 9. BIOLOGICAL TOXICITY TESTS (40 CFR 122.21(G)(11))

Biological Toxicity Tests	9.1	Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made within the last three years on (1) any of your discharges or (2) a receiving water in relation to your discharge? ☐ Yes ☒ No → SKIP to Section 10.		
	9.2	Identify the tests and their purposes below.		
		Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?
				☐ Yes ☐ No
				☐ Yes ☐ No
			☐ Yes ☐ No	

SECTION 10. CONTRACT ANALYSES (40 CFR 122.21(G)(12))

Contract Analyses	10.1	Were any of the analyses reported in Section 7 performed by a contract laboratory or consulting firm? ☒ Yes ☐ No → SKIP to Section 11.			
	10.2	Provide information for each contract laboratory or consulting firm below.			
			Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
		Name of laboratory/firm	Eurofins Lancaster Laboratories Environment Testing, LLC		
		Laboratory address	2425 New Holland Pike, Lancaster, PA		
		Phone number	(412) 525-0071		
	Pollutant(s) analyzed	VOCs, SVOCs, GRO/DRO, PCBs, Anions, Metals/Mercury, pH, free cyanide			

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SECTION 11. ADDITIONAL INFORMATION (40 CFR 122.21(G)(13))							
Additional Information	<u>11.1</u>	Has the NPDES permitting authority requested additional information? ☐ Yes ☒ No → SKIP to Section 12.					
	<u>11.2</u>	List the information requested and attach it to this application.					
	1.						4.
	2.						5.
	3.						6.
SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(A) AND (D))							
Checklist and Certification Statement	<u>12.1</u>	In Column 1 below, mark the sections of Form 2C that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to complete all sections or provide attachments.					
		Column 1		Column 2			
	☒	Section 1: Outfall Location		☒ w/ attachments			
	☐	Section 2: Line Drawing		☐ w/ line drawing		☐ w/ additional attachments	
	☐	Section 3: Average Flows and Treatment		☐ w/ attachments		☐ w/ list of each user of privately owned treatment works	
	☐	Section 4: Intermittent Flows		☐ w/ attachments			
	☐	Section 5: Production		☐ w/ attachments			
	☐	Section 6: Improvements		☐ w/ attachments		☐ w/ optional additional sheets describing any additional pollution control plans	
	☒	Section 7: Effluent and Intake Characteristics		☒ w/ request for a waiver and supporting information ☐ w/ small business exemption request ☒ w/ Table A ☒ w/ Table C ☒ w/ Table E		☐ w/ explanation for identical outfalls ☐ w/ other attachments ☒ w/ Table B ☒ w/ Table D ☒ w/ analytical results as an attachment	
	☐	Section 8: Used or Manufactured Toxics		☐ w/ attachments			
	☐	Section 9: Biological Toxicity Tests		☐ w/ attachments			
	☒	Section 10: Contract Analyses		☐ w/ attachments			
	☐	Section 11: Additional Information		☐ w/ attachments			
	☒	Section 12: Checklist and Certification Statement		☐ w/ attachments			

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SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d)) (Continued)

Checklist and Certification Statement	12.2	Provide the following certification. (See instructions to determine the appropriate person to sign the application.)	
		Certification Statement <i>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</i>	
		Name (print or type first and last name)	Official title
		Joshua Mullis	Project Manager
		Signature	Date signed
			6/20/2025

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		Quantum Frederick	QM-R-SV27472LM

TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii))¹

TABLE 1. CONVENTIONAL POLLUTANT NON-CONVENTIONAL POLLUTANTS (BOD, COD, TSS, NH3-N, pH, etc.)									
Pollutant	Waiver Requested (if applicable)	Units (specify)	Effluent				Intake (optional)		
			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses	
☒	Check here if you have applied to your NPDES permitting authority for a waiver for all of the pollutants listed on this table for the noted outfall.								
1. Biochemical oxygen demand (BOD5)	☐	Concentration							
		Mass							
2. Chemical oxygen demand (COD)	☐	Concentration							
		Mass							
3. Total organic carbon (TOC)	☐	Concentration							
		Mass							
4. Total suspended solids (TSS)	☐	Concentration							
		Mass							
5. Ammonia (as N)	☐	Concentration							
		Mass							
6. Flow	☐	Rate							
Temperature (winter)	☐	°C							
Temperature (summer)	☒	°C	21.4						
pH (minimum)	☒	Standard units	7.9						
pH (maximum)	☒	Standard units	7.9						

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
☐ Check here if you qualify as a small business per the instructions to Form 2C and, therefore, do not need to submit quantitative data for any of the organic toxic pollutants in Sections 2 through 5 of this table. Note, however, that you must still indicate in the appropriate column of this table if you believe any of the pollutants listed are present in your discharge.										
Section 1. Toxic Metals, Cyanide, and Total Phenols										
1.1 Antimony, total (7440-36-0)	☐	☐	☒	Concentration Mass	ug/L	0.40				
1.2 Arsenic, total (7440-38-2)	☐	☐	☒	Concentration Mass	ug/L	< 0.68 U				
1.3 Beryllium, total (7440-41-7)	☐	☐	☒	Concentration Mass	ug/L	< 0.12 U				
1.4 Cadmium, total (7440-43-9)	☒	☐	☒	Concentration Mass	ug/L	< 0.15 U				
1.5 Chromium, total (7440-47-3)	☐	☐	☒	Concentration Mass	ug/L	< 0.55 U				
1.6 Copper, total (7440-50-8)	☐	☐	☒	Concentration Mass	ug/L	< 0.85 U				
1.7 Lead, total (7439-92-1)	☒	☐	☒	Concentration Mass	ug/L	< 0.12 U				
1.8 Mercury, total (7439-97-6)	☐	☐	☒	Concentration Mass	ug/L	< 0.087 U				
1.9 Nickel, total (7440-02-0)	☒	☒	☐	Concentration Mass	ug/L	0.88 J				
1.10 Selenium, total (7782-49-2)	☐	☒	☐	Concentration Mass	ug/L	0.67 J				
1.11 Silver, total (7440-22-4)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
1.12 Thallium, total (7440-28-0)	☐	☐	☒	Concentration ug/L	< 0.13 U					
1.13 Zinc, total (7440-66-6)	☐	☒	☐	Concentration ug/L	23					
1.14 Cyanide, total (57-12-5)	☒	☐	☒	Concentration mg/L	0.022 U	free cyanide				
1.15 Phenols, total	☐	☐	☒	Concentration Mass						

Section 2. Organic Toxic Pollutants (GC/MS Fraction—Volatile Compounds)										
2.1 Acrolein (107-02-8)	☐	☐	☒	Concentration Mass						
2.2 Acrylonitrile (107-13-1)	☐	☐	☒	Concentration Mass						
2.3 Benzene (71-43-2)	☐	☒	☐	Concentration ug/L	0.22 J					
2.4 Bromoform (75-25-2)	☐	☐	☒	Concentration Mass						
2.5 Carbon tetrachloride (56-23-5)	☐	☐	☒	Concentration ug/L	< 0.1 U					
2.6 Chlorobenzene (108-90-7)	☐	☐	☒	Concentration ug/L	< 0.07 U					
2.7 Chlorodibromomethane (124-48-1)	☐	☐	☒	Concentration Mass						
2.8 Chloroethane (75-00-3)	☐	☐	☒	Concentration ug/L	< 0.1 U					

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
2.9 2-chloroethylvinyl ether (110-75-8)	☐	☐	☒	Concentration Mass						
2.10 Chloroform (67-66-3)	☐	☐	☒	Concentration Mass	ug/L	< 0.09 U				
2.11 Dichlorobromomethane (75-27-4)	☐	☐	☒	Concentration Mass						
2.12 1,1-dichloroethane (75-34-3)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				
2.13 1,2-dichloroethane (107-06-2)	☐	☐	☒	Concentration Mass	ug/L	< 0.07 U				
2.14 1,1-dichloroethylene (75-35-4)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				
2.15 1,2-dichloropropane (78-87-5)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				
2.16 1,3-dichloropropylene (542-75-6)	☐	☐	☒	Concentration Mass						
2.17 Ethylbenzene (100-41-4)	☐	☐	☒	Concentration Mass	ug/L	< 0.08 U				
2.18 Methyl bromide (74-83-9)	☐	☐	☒	Concentration Mass						
2.19 Methyl chloride (74-87-3)	☐	☐	☒	Concentration Mass						
2.20 Methylene chloride (75-09-2)	☐	☐	☒	Concentration Mass	ug/L	< 0.2 U				
2.21 1,1,2,2- tetrachloroethane (79-34-5)	☐	☐	☒	Concentration Mass	ug/L	< 0.1 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) ¹										
Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
2.22 Tetrachloroethylene (127-18-4)	☐	☐	☒	Concentration Mass	< 0.20 U					
2.23 Toluene (108-88-3)	☐	☒	☐	Concentration Mass	0.083 J					
2.24 1,2-trans-dichloroethylene (156-60-5)	☐	☐	☒	Concentration Mass						
2.25 1,1,1-trichloroethane (71-55-6)	☐	☐	☒	Concentration Mass	< 0.08 U					
2.26 1,1,1,2-trichloroethane (79-00-5)	☐	☐	☒	Concentration Mass	< 0.08 U					
2.27 Trichloroethylene (79-01-6)	☐	☐	☒	Concentration Mass						
2.28 Vinyl chloride (75-01-4)	☐	☐	☒	Concentration Mass	< 0.02 U					
Section 3. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds)										
3.1 2-chlorophenol (95-57-8)	☐	☐	☒	Concentration Mass						
3.2 2,4-dichlorophenol (120-83-2)	☐	☐	☒	Concentration Mass						
3.3 2,4-dimethylphenol (105-67-9)	☐	☐	☒	Concentration Mass						
3.4 4,6-dinitro-o-cresol (534-52-1)	☐	☐	☒	Concentration Mass						
3.5 2,4-dinitrophenol (51-28-5)	☐	☐	☒	Concentration Mass						

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
3.6 2-nitrophenol (88-75-5)	☐	☐	☒	Concentration Mass						
3.7 4-nitrophenol (100-02-7)	☐	☐	☒	Concentration Mass						
3.8 p-chloro-m-cresol (59-50-7)	☐	☐	☒	Concentration Mass						
3.9 Pentachlorophenol (87-86-5)	☐	☐	☒	Concentration Mass						
3.10 Phenol (108-95-2)	☐	☐	☒	Concentration Mass						
3.11 2,4,6-trichlorophenol (88-05-2)	☐	☐	☒	Concentration Mass						

Section 4. Organic Toxic Pollutants (GC/MS Fraction—Base /Neutral Compounds)										
4.1 Acenaphthene (83-32-9)	☒	☐	☒	Concentration Mass	ug/L	< 0.01 U				
4.2 Acenaphthylene (208-96-8)	☒	☐	☒	Concentration Mass	ug/L	< 0.01 U				
4.3 Anthracene (120-12-7)	☒	☐	☒	Concentration Mass	ug/L	< 0.01 U				
4.4 Benzidine (92-87-5)	☐	☐	☒	Concentration Mass						
4.5 Benzo (a) anthracene (56-55-3)	☒	☐	☒	Concentration Mass	ug/L	< 0.011 U				
4.6 Benzo (a) pyrene (50-32-8)	☒	☐	☒	Concentration Mass	ug/L	< 0.01 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent							
4.7 3,4-benzofluoranthene (205-99-2)	☐	☐	☒	Concentration Mass					Long-Term Average Value	Number of Analyses
4.8 Benzo (ghi) perylene (191-24-2)	☐	☐	☒	Concentration Mass	ug/L	< 0.010 U				
4.9 Benzo (k) fluoranthene (207-08-9)	☐	☐	☒	Concentration Mass	ug/L	< 0.010 U				
4.10 Bis (2-chloroethoxy) methane (111-91-1)	☐	☐	☒	Concentration Mass						
4.11 Bis (2-chloroethyl) ether (111-44-4)	☐	☐	☒	Concentration Mass						
4.12 Bis (2-chloroisopropyl) ether (102-80-1)	☐	☐	☒	Concentration Mass						
4.13 Bis (2-ethylhexyl) phthalate (117-81-7)	☐	☐	☒	Concentration Mass						
4.14 4-bromophenyl phenyl ether (101-55-3)	☐	☐	☒	Concentration Mass						
4.15 Butyl benzyl phthalate (85-68-7)	☐	☐	☒	Concentration Mass						
4.16 2-chloronaphthalene (91-58-7)	☐	☐	☒	Concentration Mass						
4.17 4-chlorophenyl phenyl ether (7005-72-3)	☐	☐	☒	Concentration Mass						
4.18 Chrysene (218-01-9)	☐	☐	☒	Concentration Mass	ug/L	< 0.025 U				
4.19 Dibenzo (a,h) anthracene (53-70-3)	☐	☐	☒	Concentration Mass	ug/L	< 0.02 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent							
4.20 1,2-dichlorobenzene (95-50-1)	☐	☒	☐	Concentration ug/L	Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
			☐	Mass	0.54					
4.21 1,3-dichlorobenzene (541-73-1)	☐	☐	☒	Concentration ug/L	< 0.07 U					
				Mass						
4.22 1,4-dichlorobenzene (106-46-7)	☐	☐	☒	Concentration ug/L	< 0.07 U					
				Mass						
4.23 3,3-dichlorobenzidine (91-94-1)	☐	☐	☒	Concentration						
				Mass						
4.24 Diethyl phthalate (84-66-2)	☐	☐	☒	Concentration						
				Mass						
4.25 Dimethyl phthalate (131-11-3)	☐	☐	☒	Concentration						
				Mass						
4.26 Di-n-butyl phthalate (84-74-2)	☐	☐	☒	Concentration						
				Mass						
4.27 2,4-dinitrotoluene (121-14-2)	☐	☐	☒	Concentration						
				Mass						
4.28 2,6-dinitrotoluene (606-20-2)	☐	☐	☒	Concentration						
				Mass						
4.29 Di-n-octyl phthalate (117-84-0)	☐	☐	☒	Concentration						
				Mass						
4.30 1,2-Diphenylhydrazine (as azobenzene) (122-66-7)	☐	☐	☒	Concentration						
				Mass						
4.31 Fluoranthene (206-44-0)	☐	☐	☒	Concentration ug/L	< 0.023 U					
				Mass						
4.32 Fluorene (86-73-7)	☐	☐	☒	Concentration ug/L	< 0.01 U					
				Mass						

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.33 Hexachlorobenzene (118-74-1)	☐	☐	☒	Concentration Mass						
4.34 Hexachlorobutadiene (87-68-3)	☐	☐	☒	Concentration Mass						
4.35 Hexachlorocyclopentadiene (77-47-4)	☐	☐	☒	Concentration Mass						
4.36 Hexachloroethane (67-72-1)	☐	☐	☒	Concentration Mass						
4.37 Indeno (1,2,3-cd) pyrene (193-39-5)	☐	☐	☒	Concentration Mass	ug/L	< 0.02 U				
4.38 Isophorone (78-59-1)	☐	☐	☒	Concentration Mass						
4.39 Naphthalene (91-20-3)	☒	☐	☒	Concentration Mass	ug/L	< 0.069 U				
4.40 Nitrobenzene (98-95-3)	☐	☐	☒	Concentration Mass						
4.41 N-nitrosodimethylamine (62-75-9)	☐	☐	☒	Concentration Mass						
4.42 N-nitrosodi-n-propylamine (621-64-7)	☐	☐	☒	Concentration Mass						
4.43 N-nitrosodiphenylamine (86-30-6)	☐	☐	☒	Concentration Mass						
4.44 Phenanthrene (85-01-8)	☐	☐	☒	Concentration Mass	ug/L	< 0.03 U				
4.45 Pyrene (129-00-0)	☐	☐	☒	Concentration Mass	ug/L	< 0.021 U				

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.46 1,2,4-trichlorobenzene (120-82-1)	☐	☐	☒	Concentration ug/L	< 0.07 U					
Section 5. Organic Toxic Pollutants (GC/MS Fraction—Pesticides)										
5.1 Aldrin (309-00-2)	☐	☐	☒	Concentration Mass						
5.2 α -BHC (319-84-6)	☐	☐	☒	Concentration Mass						
5.3 β -BHC (319-85-7)	☐	☐	☒	Concentration Mass						
5.4 γ -BHC (58-89-9)	☐	☐	☒	Concentration Mass						
5.5 δ -BHC (319-86-8)	☐	☐	☒	Concentration Mass						
5.6 Chlordane (57-74-9)	☐	☐	☒	Concentration Mass						
5.7 4,4'-DDT (50-29-3)	☐	☐	☒	Concentration Mass						
5.8 4,4'-DDE (72-55-9)	☐	☐	☒	Concentration Mass						
5.9 4,4'-DDD (72-54-8)	☐	☐	☒	Concentration Mass						
5.10 Dieldrin (60-57-1)	☐	☐	☒	Concentration Mass						
5.11 α -endosulfan (115-29-7)	☐	☐	☒	Concentration Mass						

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
5.12 β-endosulfan (115-29-7)	☐	☐	☒	Concentration Mass						
5.13 Endosulfan sulfate (1031-07-8)	☐	☐	☒	Concentration Mass						
5.14 Endrin (72-20-8)	☐	☐	☒	Concentration Mass						
5.15 Endrin aldehyde (7421-93-4)	☐	☐	☒	Concentration Mass						
5.16 Heptachlor (76-44-8)	☐	☐	☒	Concentration Mass						
5.17 Heptachlor epoxide (1024-57-3)	☐	☐	☒	Concentration Mass						
5.18 PCB-1242 (53469-21-9)	☒	☐	☒	Concentration Mass	ug/L < 0.0076 U					
5.19 PCB-1254 (11097-69-1)	☒	☐	☒	Concentration Mass	ug/L < 0.0047 U					
5.20 PCB-1221 (11104-28-2)	☒	☐	☒	Concentration Mass	ug/L < 0.0076 U					
5.21 PCB-1232 (11141-16-5)	☒	☐	☒	Concentration Mass	ug/L < 0.0076 U					
5.22 PCB-1248 (12672-29-6)	☒	☐	☒	Concentration Mass	ug/L < 0.0076 U					
5.23 PCB-1260 (11096-82-5)	☒	☐	☒	Concentration Mass	ug/L < 0.0047 U					
5.24 PCB-1016 (12674-11-2)	☒	☐	☒	Concentration Mass	ug/L < 0.0076 U					

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) ¹											
Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
5.25 Toxaphene (8001-35-2)	☐	☐	☒	Concentration Mass							

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

	Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
☐ Check here if you believe all pollutants in Table C to be present in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for each pollutant.										
☐ Check here if you believe all pollutants in Table C to be absent in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for each pollutant.										
1.	Bromide (24959-67-9)	☐	☒	Concentration Mass						
2.	Chlorine, total residual	☐	☒	Concentration Mass						
3.	Color	☐	☒	Concentration Mass						
4.	Fecal coliform	☐	☒	Concentration Mass						
5.	Fluoride (16984-48-8)	☒	☐	Concentration Mass	mg/L	0.69				
6	Nitrate-nitrite	☐	☒	Concentration Mass						
7.	Nitrogen, total organic (as N)	☐	☒	Concentration Mass						
8.	Oil and grease	☐	☒	Concentration Mass						
9.	Phosphorus (as P), total (7723-14-0)	☐	☒	Concentration Mass						
10.	Sulfate (as SO ₄) (14808-79-8)	☐	☒	Concentration Mass						
11.	Sulfide (as S)	☐	☒	Concentration Mass						

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
12. Sulfite (as SO ₃) (14265-45-3)	☐	☒	Concentration Mass						
13. Surfactants	☐	☒	Concentration Mass						
14. Aluminum, total (7429-90-5)	☒	☐	Concentration Mass	54					
15. Barium, total (7440-39-3)	☒	☐	Concentration Mass	48					
16. Boron, total (7440-42-8)	☐	☒	Concentration Mass						
17. Cobalt, total (7440-48-4)	☒	☐	Concentration Mass	0.37					
18. Iron, total (7439-89-6)	☒	☐	Concentration Mass	84					
19. Magnesium, total (7439-95-4)	☒	☐	Concentration Mass	11000					
20. Molybdenum, total (7439-98-7)	☐	☒	Concentration Mass						
21. Manganese, total (7439-96-5)	☒	☐	Concentration Mass	27					
22. Tin, total (7440-31-5)	☐	☒	Concentration Mass						
23. Titanium, total (7440-32-6)	☐	☒	Concentration Mass						

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi)) ¹									
Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
24. Radioactivity									
Alpha, total	☐	☒	Concentration Mass						
Beta, total	☐	☒	Concentration Mass						
Radium, total	☐	☒	Concentration Mass						
Radium 226, total	☐	☒	Concentration Mass						

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number	NPDES Permit Number	Facility Name Quantum Frederick	Outfall Number QM-R-SV27472LM	OMB No. 2040-0004 Expires 07/31/2026

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹				
Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
1. Asbestos	☐	☒		
2. Acetaldehyde	☐	☒		
3. Allyl alcohol	☐	☒		
4. Allyl chloride	☐	☒		
5. Amyl acetate	☐	☒		
6. Aniline	☐	☒		
7. Benzotrile	☐	☒		
8. Benzyl chloride	☐	☒		
9. Butyl acetate	☐	☒		
10. Butylamine	☐	☒		
11. Captan	☐	☒		
12. Carbaryl	☐	☒		
13. Carbofuran	☐	☒		
14. Carbon disulfide	☐	☒		
15. Chlorpyrifos	☐	☒		
16. Coumaphos	☐	☒		
17. Cresol	☐	☒		
18. Crotonaldehyde	☐	☒		
19. Cyclohexane	☐	☒		0.1 ug/L U

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
20. 2,4-D (2,4-dichlorophenoxyacetic acid)	☐	☒		
21. Diazinon	☐	☒		
22. Dicamba	☐	☒		
23. Dichlobenil	☐	☒		
24. Diclhone	☐	☒		
25. 2,2-dichloropropionic acid	☐	☒		
26. Dichlorvos	☐	☒		
27. Diethyl amine	☐	☒		
28. Dimethyl amine	☐	☒		
29. Dinitrobenzene	☐	☒		
30. Diquat	☐	☒		
31. Disulfoton	☐	☒		
32. Diuron	☐	☒		
33. Epichlorohydrin	☐	☒		
34. Ethion	☐	☒		
35. Ethylene diamine	☐	☒		
36. Ethylene dibromide	☐	☒		
37. Formaldehyde	☐	☒		
38. Furfural	☐	☒		

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
39. Guthion	☐	☒		
40. Isoprene	☐	☒		
41. Isopropanolamine	☐	☒		
42. Kelthane	☐	☒		
43. Kepone	☐	☒		
44. Malathion	☐	☒		
45. Mercaptodimethur	☐	☒		
46. Methoxychlor	☐	☒		
47. Methyl mercaptan	☐	☒		
48. Methyl methacrylate	☐	☒		
49. Methyl parathion	☐	☒		
50. Mevinphos	☐	☒		
51. Mexacarbate	☐	☒		
52. Monoethyl amine	☐	☒		
53. Monomethyl amine	☐	☒		
54. Naled	☐	☒		
55. Naphthenic acid	☐	☒		
56. Nitrotoluene	☐	☒		
57. Parathion	☐	☒		

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
58. Phenolsulfonate	☐	☒		
59. Phosgene	☐	☒		
60. Propargite	☐	☒		
61. Propylene oxide	☐	☒		
62. Pyrethrins	☐	☒		
63. Quinoline	☐	☒		
64. Resorcinol	☐	☒		
65. Strontium	☐	☒		
66. Strychnine	☐	☒		
67. Styrene	☐	☒		< 0.07 ug/L U
68. 2,4,5-T (2,4,5-trichlorophenoxyacetic acid)	☐	☒		
69. TDE (tetrachlorodiphenyl ethane)	☐	☒		
70. 2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic acid]	☐	☒		
71. Trichlorofon	☐	☒		
72. Triethanolamine	☐	☒		
73. Triethylamine	☐	☒		
74. Trimethylamine	☐	☒		
75. Uranium	☐	☐		
76. Vanadium	☐	☒		

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹				
Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
	Believed Present	Believed Absent		
77. Vinyl acetate	☐	☒		
78. Xylene	☐	☒		
79. Xylenol	☐	☒		
80. Zirconium	☐	☒		

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE E. 2,3,7,8 TETRACHLORODIBENZO P DIOXIN (2,3,7,8 TCDD) (40 CFR 122.21(g)(7)(viii))				
Pollutant	TCDD Congeners Used or Manufactured	Presence or Absence (check one)		Results of Screening Procedure
		Believed Present	Believed Absent	
2,3,7,8-TCDD	☐	☐	☒	



ANALYTICAL REPORT

PREPARED FOR

Attn: Josh Mullis
Tetra Tech Inc
20251 Century Blvd
Suite 200
Germantown, Maryland 20874

Generated 5/22/2025 5:08:50 PM

JOB DESCRIPTION

Soil and Water Analysis - QL Frederick

JOB NUMBER

410-222423-1

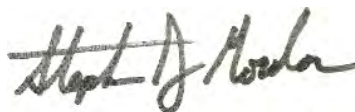
Eurofins Lancaster Laboratories Environment Testing, LLC

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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5/22/2025 5:08:50 PM

Authorized for release by
Stephen Gordon, Senior Project Manager
Stephen.Gordon@et.eurofinsus.com
(412)525-0071

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
 - Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
 - Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

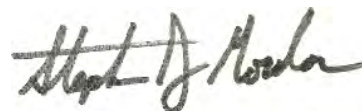


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Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-222423-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail

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.

GC Semi VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

HPLC/IC

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
^3+	Reporting Limit Check Standard 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.

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)

Eurofins Lancaster Laboratories Environment Testing, LLC

Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-222423-1

Glossary (Continued)

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

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Case Narrative

Client: Tetra Tech Inc
Project: Soil and Water Analysis - QL Frederick

Job ID: 410-222423-1

Job ID: 410-222423-1

Eurofins Lancaster Laboratories Environment

Job Narrative 410-222423-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 5/15/2025 3:04 PM. 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 time was 1.9°C.

GC/MS VOA

Method 8260D_LL: The continuing calibration verification (CCV) analyzed on 410-645661 is compliant under 8260C/D method criteria for 1,1,2,2-Tetrachloroethane. The software does not display the % Drift data to the whole number as is listed in the method (i.e. limit of 20%). When applying the evaluation to a whole number, the check passes the criteria with a value of 20% Drift.

Method 8260D_LL: The continuing calibration verification (CCV) associated with batch 410-645661 recovered outside acceptance criteria, low biased, for Acetone. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

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

GC/MS Semi VOA

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

Gasoline Range Organics

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

Diesel Range Organics

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

GC Semi VOA

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

PCBs

Method 8082A_LL: Surrogate recovery for the following sample was outside control limits on the confirmation column: QM-259852 (410-222423-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed and results are reported from the primary column.

Method 8082A_LL: Surrogate recovery is outside control limits in the LCS. The recovery for the target analyte(s) is within limits, therefore the data are reported.

QM-259852 (410-222423-2)

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

HPLC/IC

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

Metals

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

Eurofins Lancaster Laboratories Environment Testing, LLC

Case Narrative

Client: Tetra Tech Inc
Project: Soil and Water Analysis - QL Frederick

Job ID: 410-222423-1

Job ID: 410-222423-1 (Continued)

Eurofins Lancaster Laboratories Environment

General Chemistry

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

Detection Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-222423-1

Client Sample ID: TB-051525

Lab Sample ID: 410-222423-1

No Detections.

Client Sample ID: QM-259852

Lab Sample ID: 410-222423-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[a]pyrene	0.020	J	0.053	0.011	ug/L	1			8270D SIM	Total/NA
Benzo[k]fluoranthene	0.019	J	0.053	0.011	ug/L	1			8270D SIM	Total/NA
Chrysene	0.041	J	0.053	0.026	ug/L	1			8270D SIM	Total/NA
Fluoranthene	0.029	J	0.053	0.024	ug/L	1			8270D SIM	Total/NA
Pyrene	0.029	J	0.053	0.022	ug/L	1			8270D SIM	Total/NA
PCB-1248 (1C)	0.043	cn	0.010	0.0080	ug/L	1			8082A	Total/NA
PCB-1248	0.043		0.010	0.0080	ug/L	1			PCB	Total/NA
Polychlorinated biphenyls, Total	0.043		0.010	0.0080	ug/L	1			PCB	Total/NA
Fluoride	3.9	J	4.0	2.0	mg/L	20			EPA 300.0 R2.1	Total/NA
Aluminum	19000		25	12	ug/L	1			6020B	Total Recoverable
Antimony	0.36	J	1.0	0.20	ug/L	1			6020B	Total Recoverable
Arsenic	6.6		2.0	0.68	ug/L	1			6020B	Total Recoverable
Barium	120		2.0	0.75	ug/L	1			6020B	Total Recoverable
Beryllium	1.2		0.50	0.12	ug/L	1			6020B	Total Recoverable
Calcium	160000		120	50	ug/L	1			6020B	Total Recoverable
Chromium	21		2.0	0.55	ug/L	1			6020B	Total Recoverable
Cobalt	18		0.50	0.16	ug/L	1			6020B	Total Recoverable
Copper	22		1.0	0.85	ug/L	1			6020B	Total Recoverable
Iron	26000		50	20	ug/L	1			6020B	Total Recoverable
Lead	16		0.50	0.12	ug/L	1			6020B	Total Recoverable
Magnesium	24000		50	16	ug/L	1			6020B	Total Recoverable
Manganese	580		2.0	0.95	ug/L	1			6020B	Total Recoverable
Nickel	24		1.0	0.40	ug/L	1			6020B	Total Recoverable
Potassium	7000		200	65	ug/L	1			6020B	Total Recoverable
Selenium	0.60	J	1.0	0.28	ug/L	1			6020B	Total Recoverable
Sodium	53000		200	90	ug/L	1			6020B	Total Recoverable
Thallium	0.24	J	0.50	0.13	ug/L	1			6020B	Total Recoverable
Zinc	48		10	4.0	ug/L	1			6020B	Total Recoverable
Vanadium	30		4.0	0.79	ug/L	1			6020B	Total Recoverable
pH	7.9	HF	0.01	0.01	S.U.	1			9040C	Total/NA
Temperature	20.0	HF	0.01	0.01	Degrees C	1			9040C	Total/NA
Corrosivity	no	HF	0.01	0.01	NONE	1			9040C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-222423-1

Client Sample ID: TB-051525

Lab Sample ID: 410-222423-1

Date Collected: 05/15/25 07:00

Matrix: Water

Date Received: 05/15/25 15:04

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.080	cn	0.50	0.080	ug/L			05/19/25 12:33	1
1,1,1,2-Tetrachloroethane	<0.10	cn	0.50	0.10	ug/L			05/19/25 12:33	1
1,1,2-Trichloroethane	<0.080	cn	0.50	0.080	ug/L			05/19/25 12:33	1
1,1-Dichloroethane	<0.10	cn	0.50	0.10	ug/L			05/19/25 12:33	1
1,1-Dichloroethene	<0.10	cn	0.50	0.10	ug/L			05/19/25 12:33	1
1,2,4-Trichlorobenzene	<0.070	cn	0.50	0.070	ug/L			05/19/25 12:33	1
1,2-Dibromo-3-Chloropropane	<0.10	cn	0.50	0.10	ug/L			05/19/25 12:33	1
1,2-Dibromoethane	<0.080	cn	0.50	0.080	ug/L			05/19/25 12:33	1
1,2-Dichlorobenzene	<0.070	cn	0.50	0.070	ug/L			05/19/25 12:33	1
1,2-Dichloroethane	<0.070	cn	0.50	0.070	ug/L			05/19/25 12:33	1
1,2-Dichloropropane	<0.10	cn	0.50	0.10	ug/L			05/19/25 12:33	1
1,3-Dichlorobenzene	<0.070	cn	0.50	0.070	ug/L			05/19/25 12:33	1
1,4-Dichlorobenzene	<0.070	cn	0.50	0.070	ug/L			05/19/25 12:33	1
2-Butanone	<1.0	cn	5.0	1.0	ug/L			05/19/25 12:33	1
2-Hexanone	<2.0	cn	5.0	2.0	ug/L			05/19/25 12:33	1
4-Methyl-2-pentanone	<1.0	cn	5.0	1.0	ug/L			05/19/25 12:33	1
Acetone	<1.5	cn	5.0	1.5	ug/L			05/19/25 12:33	1
Benzene	<0.10	cn	0.50	0.10	ug/L			05/19/25 12:33	1
Bromodichloromethane	<0.080	cn	0.50	0.080	ug/L			05/19/25 12:33	1
Bromoform	<0.30	cn	1.0	0.30	ug/L			05/19/25 12:33	1
Bromomethane	<0.10	cn	0.50	0.10	ug/L			05/19/25 12:33	1
Carbon disulfide	<0.10	cn	1.0	0.10	ug/L			05/19/25 12:33	1
Carbon tetrachloride	<0.10	cn	0.50	0.10	ug/L			05/19/25 12:33	1
Chlorobenzene	<0.070	cn	0.50	0.070	ug/L			05/19/25 12:33	1
Chloroethane	<0.10	cn	0.50	0.10	ug/L			05/19/25 12:33	1
Chloroform	<0.090	cn	0.50	0.090	ug/L			05/19/25 12:33	1
Chloromethane	<0.10	cn	0.50	0.10	ug/L			05/19/25 12:33	1
cis-1,2-Dichloroethene	<0.080	cn	0.50	0.080	ug/L			05/19/25 12:33	1
cis-1,3-Dichloropropene	<0.10	cn	0.50	0.10	ug/L			05/19/25 12:33	1
Cyclohexane	<0.10	cn	0.50	0.10	ug/L			05/19/25 12:33	1
Dibromochloromethane	<0.080	cn	0.50	0.080	ug/L			05/19/25 12:33	1
Dichlorodifluoromethane	<0.10	cn	0.50	0.10	ug/L			05/19/25 12:33	1
Ethylbenzene	<0.080	cn	0.50	0.080	ug/L			05/19/25 12:33	1
1,1,2-Trichlorotrifluoroethane	<0.080	cn	0.50	0.080	ug/L			05/19/25 12:33	1
Isopropylbenzene	<0.080	cn	0.50	0.080	ug/L			05/19/25 12:33	1
Methyl acetate	<0.20	cn	1.0	0.20	ug/L			05/19/25 12:33	1
Methyl tertiary butyl ether	<0.080	cn	0.50	0.080	ug/L			05/19/25 12:33	1
Methylcyclohexane	<0.10	cn	0.50	0.10	ug/L			05/19/25 12:33	1
Methylene Chloride	<0.20	cn	0.50	0.20	ug/L			05/19/25 12:33	1
Styrene	<0.070	cn	0.50	0.070	ug/L			05/19/25 12:33	1
Tetrachloroethene	<0.20	cn	0.50	0.20	ug/L			05/19/25 12:33	1
Toluene	<0.080	cn	0.50	0.080	ug/L			05/19/25 12:33	1
trans-1,2-Dichloroethene	<0.10	cn	0.50	0.10	ug/L			05/19/25 12:33	1
trans-1,3-Dichloropropene	<0.080	cn	0.50	0.080	ug/L			05/19/25 12:33	1
Trichloroethene	<0.080	cn	0.50	0.080	ug/L			05/19/25 12:33	1
Trichlorofluoromethane	<0.10	cn	0.50	0.10	ug/L			05/19/25 12:33	1
Vinyl chloride	<0.10	cn	0.50	0.10	ug/L			05/19/25 12:33	1
Xylenes, Total	<0.070	cn	1.0	0.070	ug/L			05/19/25 12:33	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-222423-1

Client Sample ID: TB-051525

Lab Sample ID: 410-222423-1

Date Collected: 05/15/25 07:00

Matrix: Water

Date Received: 05/15/25 15:04

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106	cn	80 - 120		05/19/25 12:33	1
4-Bromofluorobenzene (Surr)	92	cn	80 - 120		05/19/25 12:33	1
Dibromofluoromethane (Surr)	109	cn	80 - 120		05/19/25 12:33	1
Toluene-d8 (Surr)	91	cn	80 - 120		05/19/25 12:33	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			05/19/25 12:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid) (1C)	103		63 - 135		05/19/25 12:54	1

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	<0.0094		0.019	0.0094	ug/L		05/20/25 01:48	05/20/25 21:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	98		46 - 136	05/20/25 01:48	05/20/25 21:32	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	90		46 - 136	05/20/25 01:48	05/20/25 21:32	1

Client Sample ID: QM-259852

Lab Sample ID: 410-222423-2

Date Collected: 05/15/25 10:20

Matrix: Water

Date Received: 05/15/25 15:04

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.080	cn	0.50	0.080	ug/L			05/19/25 17:07	1
1,1,2,2-Tetrachloroethane	<0.10	cn	0.50	0.10	ug/L			05/19/25 17:07	1
1,1,2-Trichloroethane	<0.080	cn	0.50	0.080	ug/L			05/19/25 17:07	1
1,1-Dichloroethane	<0.10	cn	0.50	0.10	ug/L			05/19/25 17:07	1
1,1-Dichloroethene	<0.10	cn	0.50	0.10	ug/L			05/19/25 17:07	1
1,2,4-Trichlorobenzene	<0.070	cn	0.50	0.070	ug/L			05/19/25 17:07	1
1,2-Dibromo-3-Chloropropane	<0.10	cn	0.50	0.10	ug/L			05/19/25 17:07	1
1,2-Dibromoethane	<0.080	cn	0.50	0.080	ug/L			05/19/25 17:07	1
1,2-Dichlorobenzene	<0.070	cn	0.50	0.070	ug/L			05/19/25 17:07	1
1,2-Dichloroethane	<0.070	cn	0.50	0.070	ug/L			05/19/25 17:07	1
1,2-Dichloropropane	<0.10	cn	0.50	0.10	ug/L			05/19/25 17:07	1
1,3-Dichlorobenzene	<0.070	cn	0.50	0.070	ug/L			05/19/25 17:07	1
1,4-Dichlorobenzene	<0.070	cn	0.50	0.070	ug/L			05/19/25 17:07	1
2-Butanone	<1.0	cn	5.0	1.0	ug/L			05/19/25 17:07	1
2-Hexanone	<2.0	cn	5.0	2.0	ug/L			05/19/25 17:07	1
4-Methyl-2-pentanone	<1.0	cn	5.0	1.0	ug/L			05/19/25 17:07	1
Acetone	<1.5	cn	5.0	1.5	ug/L			05/19/25 17:07	1
Benzene	<0.10	cn	0.50	0.10	ug/L			05/19/25 17:07	1
Bromodichloromethane	<0.080	cn	0.50	0.080	ug/L			05/19/25 17:07	1
Bromoform	<0.30	cn	1.0	0.30	ug/L			05/19/25 17:07	1
Bromomethane	<0.10	cn	0.50	0.10	ug/L			05/19/25 17:07	1
Carbon disulfide	<0.10	cn	1.0	0.10	ug/L			05/19/25 17:07	1
Carbon tetrachloride	<0.10	cn	0.50	0.10	ug/L			05/19/25 17:07	1
Chlorobenzene	<0.070	cn	0.50	0.070	ug/L			05/19/25 17:07	1
Chloroethane	<0.10	cn	0.50	0.10	ug/L			05/19/25 17:07	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-222423-1

Client Sample ID: QM-259852

Lab Sample ID: 410-222423-2

Date Collected: 05/15/25 10:20

Matrix: Water

Date Received: 05/15/25 15:04

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.090	cn	0.50	0.090	ug/L			05/19/25 17:07	1
Chloromethane	<0.10	cn	0.50	0.10	ug/L			05/19/25 17:07	1
cis-1,2-Dichloroethene	<0.080	cn	0.50	0.080	ug/L			05/19/25 17:07	1
cis-1,3-Dichloropropene	<0.10	cn	0.50	0.10	ug/L			05/19/25 17:07	1
Cyclohexane	<0.10	cn	0.50	0.10	ug/L			05/19/25 17:07	1
Dibromochloromethane	<0.080	cn	0.50	0.080	ug/L			05/19/25 17:07	1
Dichlorodifluoromethane	<0.10	cn	0.50	0.10	ug/L			05/19/25 17:07	1
Ethylbenzene	<0.080	cn	0.50	0.080	ug/L			05/19/25 17:07	1
1,1,2-Trichlorotrifluoroethane	<0.080	cn	0.50	0.080	ug/L			05/19/25 17:07	1
Isopropylbenzene	<0.080	cn	0.50	0.080	ug/L			05/19/25 17:07	1
Methyl acetate	<0.20	cn	1.0	0.20	ug/L			05/19/25 17:07	1
Methyl tertiary butyl ether	<0.080	cn	0.50	0.080	ug/L			05/19/25 17:07	1
Methylcyclohexane	<0.10	cn	0.50	0.10	ug/L			05/19/25 17:07	1
Methylene Chloride	<0.20	cn	0.50	0.20	ug/L			05/19/25 17:07	1
Styrene	<0.070	cn	0.50	0.070	ug/L			05/19/25 17:07	1
Tetrachloroethene	<0.20	cn	0.50	0.20	ug/L			05/19/25 17:07	1
Toluene	<0.080	cn	0.50	0.080	ug/L			05/19/25 17:07	1
trans-1,2-Dichloroethene	<0.10	cn	0.50	0.10	ug/L			05/19/25 17:07	1
trans-1,3-Dichloropropene	<0.080	cn	0.50	0.080	ug/L			05/19/25 17:07	1
Trichloroethene	<0.080	cn	0.50	0.080	ug/L			05/19/25 17:07	1
Trichlorofluoromethane	<0.10	cn	0.50	0.10	ug/L			05/19/25 17:07	1
Vinyl chloride	<0.10	cn	0.50	0.10	ug/L			05/19/25 17:07	1
Xylenes, Total	<0.070	cn	1.0	0.070	ug/L			05/19/25 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108	cn	80 - 120		05/19/25 17:07	1
4-Bromofluorobenzene (Surr)	91	cn	80 - 120		05/19/25 17:07	1
Dibromofluoromethane (Surr)	108	cn	80 - 120		05/19/25 17:07	1
Toluene-d8 (Surr)	92	cn	80 - 120		05/19/25 17:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.011		0.053	0.011	ug/L		05/21/25 15:32	05/22/25 09:54	1
Acenaphthylene	<0.011		0.053	0.011	ug/L		05/21/25 15:32	05/22/25 09:54	1
Anthracene	<0.011		0.053	0.011	ug/L		05/21/25 15:32	05/22/25 09:54	1
Benzo[a]anthracene	<0.011		0.053	0.011	ug/L		05/21/25 15:32	05/22/25 09:54	1
Benzo[a]pyrene	0.020	J	0.053	0.011	ug/L		05/21/25 15:32	05/22/25 09:54	1
Benzo[b]fluoranthene	<0.050		0.053	0.050	ug/L		05/21/25 15:32	05/22/25 09:54	1
Benzo[g,h,i]perylene	<0.011		0.053	0.011	ug/L		05/21/25 15:32	05/22/25 09:54	1
Benzo[k]fluoranthene	0.019	J	0.053	0.011	ug/L		05/21/25 15:32	05/22/25 09:54	1
Chrysene	0.041	J	0.053	0.026	ug/L		05/21/25 15:32	05/22/25 09:54	1
Dibenz(a,h)anthracene	<0.021		0.053	0.021	ug/L		05/21/25 15:32	05/22/25 09:54	1
Fluoranthene	0.029	J	0.053	0.024	ug/L		05/21/25 15:32	05/22/25 09:54	1
Fluorene	<0.011		0.053	0.011	ug/L		05/21/25 15:32	05/22/25 09:54	1
Indeno[1,2,3-cd]pyrene	<0.021		0.053	0.021	ug/L		05/21/25 15:32	05/22/25 09:54	1
Naphthalene	<0.072		0.074	0.072	ug/L		05/21/25 15:32	05/22/25 09:54	1
Phenanthrene	<0.032		0.074	0.032	ug/L		05/21/25 15:32	05/22/25 09:54	1
Pyrene	0.029	J	0.053	0.022	ug/L		05/21/25 15:32	05/22/25 09:54	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-222423-1

Client Sample ID: QM-259852

Lab Sample ID: 410-222423-2

Date Collected: 05/15/25 10:20

Matrix: Water

Date Received: 05/15/25 15:04

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	20		10 - 121	05/21/25 15:32	05/22/25 09:54	1
1-Methylnaphthalene-d10 (Surr)	82		30 - 127	05/21/25 15:32	05/22/25 09:54	1
Fluoranthene-d10 (Surr)	79		34 - 130	05/21/25 15:32	05/22/25 09:54	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			05/19/25 20:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid) (1C)	103		63 - 135		05/19/25 20:31	1

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	<0.0095		0.019	0.0095	ug/L		05/20/25 01:48	05/20/25 21:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	102		46 - 136	05/20/25 01:48	05/20/25 21:49	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	93		46 - 136	05/20/25 01:48	05/20/25 21:49	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	<47		100	47	ug/L		05/20/25 08:03	05/21/25 03:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-terphenyl (Surr)	78		32 - 125	05/20/25 08:03	05/21/25 03:20	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	<0.0080	cn	0.010	0.0080	ug/L		05/20/25 10:45	05/20/25 18:19	1
PCB-1221 (1C)	<0.0080	cn	0.010	0.0080	ug/L		05/20/25 10:45	05/20/25 18:19	1
PCB-1232 (1C)	<0.0080	cn	0.010	0.0080	ug/L		05/20/25 10:45	05/20/25 18:19	1
PCB-1242 (1C)	<0.0080	cn	0.010	0.0080	ug/L		05/20/25 10:45	05/20/25 18:19	1
PCB-1248 (1C)	0.043	cn	0.010	0.0080	ug/L		05/20/25 10:45	05/20/25 18:19	1
PCB-1254 (1C)	<0.0050	cn	0.010	0.0050	ug/L		05/20/25 10:45	05/20/25 18:19	1
PCB-1260 (1C)	<0.0050	cn	0.010	0.0050	ug/L		05/20/25 10:45	05/20/25 18:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	53	cn	46 - 161	05/20/25 10:45	05/20/25 18:19	1
DCB Decachlorobiphenyl (Surr) (2C)	49	cn	46 - 161	05/20/25 10:45	05/20/25 18:19	1
Tetrachloro-m-xylene (1C)	41	cn	41 - 146	05/20/25 10:45	05/20/25 18:19	1
Tetrachloro-m-xylene (2C)	39	S1- cn	41 - 146	05/20/25 10:45	05/20/25 18:19	1

Method: TAL SOP PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0080		0.010	0.0080	ug/L			05/20/25 18:19	1
PCB-1221	<0.0080		0.010	0.0080	ug/L			05/20/25 18:19	1
PCB-1232	<0.0080		0.010	0.0080	ug/L			05/20/25 18:19	1
PCB-1242	<0.0080		0.010	0.0080	ug/L			05/20/25 18:19	1
PCB-1248	0.043		0.010	0.0080	ug/L			05/20/25 18:19	1
PCB-1254	<0.0050		0.010	0.0050	ug/L			05/20/25 18:19	1
PCB-1260	<0.0050		0.010	0.0050	ug/L			05/20/25 18:19	1
Polychlorinated biphenyls, Total	0.043		0.010	0.0080	ug/L			05/20/25 18:19	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-222423-1

Client Sample ID: QM-259852

Lab Sample ID: 410-222423-2

Date Collected: 05/15/25 10:20

Matrix: Water

Date Received: 05/15/25 15:04

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	3.9	J	4.0	2.0	mg/L			05/21/25 19:08	20

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	19000		25	12	ug/L		05/19/25 21:00	05/21/25 20:36	1
Antimony	0.36	J	1.0	0.20	ug/L		05/19/25 21:00	05/21/25 20:36	1
Arsenic	6.6		2.0	0.68	ug/L		05/19/25 21:00	05/21/25 20:36	1
Barium	120		2.0	0.75	ug/L		05/19/25 21:00	05/21/25 20:36	1
Beryllium	1.2		0.50	0.12	ug/L		05/19/25 21:00	05/22/25 00:01	1
Cadmium	<0.15		0.50	0.15	ug/L		05/19/25 21:00	05/21/25 20:36	1
Calcium	160000		120	50	ug/L		05/19/25 21:00	05/21/25 20:36	1
Chromium	21		2.0	0.55	ug/L		05/19/25 21:00	05/21/25 20:36	1
Cobalt	18		0.50	0.16	ug/L		05/19/25 21:00	05/21/25 20:36	1
Copper	22		1.0	0.85	ug/L		05/19/25 21:00	05/21/25 22:32	1
Iron	26000		50	20	ug/L		05/19/25 21:00	05/21/25 20:36	1
Lead	16		0.50	0.12	ug/L		05/19/25 21:00	05/21/25 20:36	1
Magnesium	24000		50	16	ug/L		05/19/25 21:00	05/21/25 20:36	1
Manganese	580		2.0	0.95	ug/L		05/19/25 21:00	05/21/25 20:36	1
Nickel	24		1.0	0.40	ug/L		05/19/25 21:00	05/21/25 20:36	1
Potassium	7000		200	65	ug/L		05/19/25 21:00	05/21/25 20:36	1
Selenium	0.60	J	1.0	0.28	ug/L		05/19/25 21:00	05/21/25 20:36	1
Silver	<0.10		0.50	0.10	ug/L		05/19/25 21:00	05/21/25 20:36	1
Sodium	53000		200	90	ug/L		05/19/25 21:00	05/21/25 20:36	1
Thallium	0.24	J	0.50	0.13	ug/L		05/19/25 21:00	05/21/25 20:36	1
Zinc	48		10	4.0	ug/L		05/19/25 21:00	05/21/25 20:36	1
Vanadium	30		4.0	0.79	ug/L		05/19/25 21:00	05/21/25 20:36	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.087		0.20	0.087	ug/L		05/18/25 23:30	05/19/25 13:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	7.9	HF	0.01	0.01	S.U.			05/22/25 15:05	1
Temperature (SW846 9040C)	20.0	HF	0.01	0.01	Degrees C			05/22/25 15:05	1
Corrosivity (SW846 9040C)	no	HF	0.01	0.01	NONE			05/22/25 15:05	1
Cyanide, Free (OI CORP OIA-1677)	<0.0050		0.0060	0.0050	mg/L			05/20/25 09:34	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-222423-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (80-120)	BFB (80-120)	DBFM (80-120)	TOL (80-120)
410-222423-1	TB-051525	106 cn	92 cn	109 cn	91 cn
410-222423-2	QM-259852	108 cn	91 cn	108 cn	92 cn
LCS 410-645661/5	Lab Control Sample	100	101	99	97
MB 410-645661/7	Method Blank	109	93	109	92

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BAPd12 (10-121)	MNPd10 (30-127)	FLN10 (34-130)
410-222423-2	QM-259852	20	82	79
LCS 410-647253/2-A	Lab Control Sample	78	73	94
LCSD 410-647253/3-A	Lab Control Sample Dup	83	88	97
MB 410-647253/1-A	Method Blank	66	83	93

Surrogate Legend

BAPd12 = Benzo(a)pyrene-d12 (Surr)
MNPd10 = 1-Methylnaphthalene-d10 (Surr)
FLN10 = Fluoranthene-d10 (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		TFT-F1					
Lab Sample ID	Client Sample ID	(63-135)					
410-222423-1	TB-051525	103					
410-222423-2	QM-259852	103					
LCS 410-645631/6	Lab Control Sample	94					
LCSD 410-645631/7	Lab Control Sample Dup	95					
MB 410-645631/5	Method Blank	103					

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1122TCA1 (46-136)	1122TCA2 (46-136)
410-222423-1	TB-051525	98	90
410-222423-2	QM-259852	102	93
LCS 410-646218/2-A	Lab Control Sample	106	106
LCSD 410-646218/3-A	Lab Control Sample Dup	103	105

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Surrogate Summary

Client: Tetra Tech Inc

Job ID: 410-222423-1

Project/Site: Soil and Water Analysis - QL Frederick

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1122TCA1 (46-136)	1122TCA2 (46-136)
MB 410-646218/1-A	Method Blank	107	110
Surrogate Legend			
1122TCA = 1,1,2,2-Tetrachloroethane (Surr)			

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	OTP (32-125)	
410-222423-2	QM-259852	78	
LCS 410-646330/2-A	Lab Control Sample	83	
LCSD 410-646330/3-A	Lab Control Sample Dup	82	
MB 410-646330/1-A	Method Blank	83	
Surrogate Legend			
OTP = o- terphenyl (Surr)			

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCB1 (46-161)	DCB2 (46-161)	TCX1 (41-146)	TCX2 (41-146)
410-222423-2	QM-259852	53 cn	49 cn	41 cn	39 S1- cn
LCS 410-646456/2-A	Lab Control Sample	164 S1+	154	100	98
LCSD 410-646456/3-A	Lab Control Sample Dup	159	147	97	93
MB 410-646456/1-A	Method Blank	141	131	88	83
Surrogate Legend					
DCB = DCB Decachlorobiphenyl (Surr)					
TCX = Tetrachloro-m-xylene					

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-222423-1

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

Lab Sample ID: MB 410-645661/7

Matrix: Water

Analysis Batch: 645661

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	<0.080		0.50	0.080	ug/L			05/19/25 11:44	1
1,1,1,2,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			05/19/25 11:44	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			05/19/25 11:44	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			05/19/25 11:44	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			05/19/25 11:44	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			05/19/25 11:44	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			05/19/25 11:44	1
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			05/19/25 11:44	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			05/19/25 11:44	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			05/19/25 11:44	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			05/19/25 11:44	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			05/19/25 11:44	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			05/19/25 11:44	1
2-Butanone	<1.0		5.0	1.0	ug/L			05/19/25 11:44	1
2-Hexanone	<2.0		5.0	2.0	ug/L			05/19/25 11:44	1
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			05/19/25 11:44	1
Acetone	<1.5		5.0	1.5	ug/L			05/19/25 11:44	1
Benzene	<0.10		0.50	0.10	ug/L			05/19/25 11:44	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			05/19/25 11:44	1
Bromoform	<0.30		1.0	0.30	ug/L			05/19/25 11:44	1
Bromomethane	<0.10		0.50	0.10	ug/L			05/19/25 11:44	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			05/19/25 11:44	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			05/19/25 11:44	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			05/19/25 11:44	1
Chloroethane	<0.10		0.50	0.10	ug/L			05/19/25 11:44	1
Chloroform	<0.090		0.50	0.090	ug/L			05/19/25 11:44	1
Chloromethane	<0.10		0.50	0.10	ug/L			05/19/25 11:44	1
cis-1,2-Dichloroethene	<0.080		0.50	0.080	ug/L			05/19/25 11:44	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			05/19/25 11:44	1
Cyclohexane	<0.10		0.50	0.10	ug/L			05/19/25 11:44	1
Dibromochloromethane	<0.080		0.50	0.080	ug/L			05/19/25 11:44	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			05/19/25 11:44	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			05/19/25 11:44	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			05/19/25 11:44	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			05/19/25 11:44	1
Methyl acetate	<0.20		1.0	0.20	ug/L			05/19/25 11:44	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			05/19/25 11:44	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			05/19/25 11:44	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			05/19/25 11:44	1
Styrene	<0.070		0.50	0.070	ug/L			05/19/25 11:44	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			05/19/25 11:44	1
Toluene	<0.080		0.50	0.080	ug/L			05/19/25 11:44	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			05/19/25 11:44	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			05/19/25 11:44	1
Trichloroethene	<0.080		0.50	0.080	ug/L			05/19/25 11:44	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			05/19/25 11:44	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			05/19/25 11:44	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			05/19/25 11:44	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-222423-1

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

Lab Sample ID: MB 410-645661/7

Matrix: Water

Analysis Batch: 645661

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		80 - 120		05/19/25 11:44	1
4-Bromofluorobenzene (Surr)	93		80 - 120		05/19/25 11:44	1
Dibromofluoromethane (Surr)	109		80 - 120		05/19/25 11:44	1
Toluene-d8 (Surr)	92		80 - 120		05/19/25 11:44	1

Lab Sample ID: LCS 410-645661/5

Matrix: Water

Analysis Batch: 645661

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	5.00	4.69		ug/L		94	78 - 126
1,1,1,2,2-Tetrachloroethane	5.00	4.14		ug/L		83	75 - 123
1,1,1,2-Trichloroethane	5.00	4.74		ug/L		95	80 - 120
1,1-Dichloroethane	5.00	4.97		ug/L		99	74 - 120
1,1-Dichloroethene	5.00	5.32		ug/L		106	80 - 131
1,2,4-Trichlorobenzene	5.00	5.08		ug/L		102	68 - 122
1,2-Dibromo-3-Chloropropane	5.00	4.74		ug/L		95	75 - 124
1,2-Dibromoethane	5.00	4.64		ug/L		93	80 - 120
1,2-Dichlorobenzene	5.00	4.67		ug/L		93	80 - 120
1,2-Dichloroethane	5.00	4.21		ug/L		84	69 - 122
1,2-Dichloropropane	5.00	4.80		ug/L		96	80 - 120
1,3-Dichlorobenzene	5.00	4.66		ug/L		93	80 - 120
1,4-Dichlorobenzene	5.00	4.52		ug/L		90	80 - 120
2-Butanone	62.5	51.2		ug/L		82	59 - 141
2-Hexanone	62.5	49.2		ug/L		79	52 - 140
4-Methyl-2-pentanone	62.5	48.1		ug/L		77	55 - 140
Acetone	62.5	46.8		ug/L		75	60 - 146
Benzene	5.00	4.82		ug/L		96	80 - 120
Bromodichloromethane	5.00	4.51		ug/L		90	80 - 123
Bromoform	5.00	5.32		ug/L		106	75 - 126
Bromomethane	5.00	4.63		ug/L		93	63 - 120
Carbon disulfide	5.00	4.64		ug/L		93	67 - 130
Carbon tetrachloride	5.00	4.81		ug/L		96	64 - 141
Chlorobenzene	5.00	4.78		ug/L		96	80 - 120
Chloroethane	5.00	4.82		ug/L		96	63 - 120
Chloroform	5.00	4.71		ug/L		94	80 - 120
Chloromethane	5.00	4.57		ug/L		91	56 - 124
cis-1,2-Dichloroethene	5.00	5.28		ug/L		106	80 - 122
cis-1,3-Dichloropropene	5.00	4.51		ug/L		90	67 - 121
Cyclohexane	5.00	4.30		ug/L		86	69 - 120
Dibromochloromethane	5.00	4.81		ug/L		96	80 - 123
Dichlorodifluoromethane	5.00	5.06		ug/L		101	43 - 123
Ethylbenzene	5.00	4.70		ug/L		94	80 - 120
1,1,2-Trichlorotrifluoroethane	5.00	4.30		ug/L		86	67 - 124
Isopropylbenzene	5.00	5.44		ug/L		109	80 - 120
Methyl acetate	5.00	4.01		ug/L		80	59 - 143
Methyl tertiary butyl ether	5.00	4.40		ug/L		88	69 - 120
Methylcyclohexane	5.00	4.50		ug/L		90	80 - 120

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-222423-1

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

Lab Sample ID: LCS 410-645661/5

Matrix: Water

Analysis Batch: 645661

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	5.00	5.11		ug/L		102	80 - 120
Styrene	5.00	5.12		ug/L		102	80 - 120
Tetrachloroethene	5.00	4.95		ug/L		99	80 - 120
Toluene	5.00	4.73		ug/L		95	80 - 120
trans-1,2-Dichloroethene	5.00	5.27		ug/L		105	80 - 122
trans-1,3-Dichloropropene	5.00	4.52		ug/L		90	61 - 129
Trichloroethene	5.00	4.73		ug/L		95	80 - 120
Trichlorofluoromethane	5.00	4.86		ug/L		97	53 - 136
Vinyl chloride	5.00	5.14		ug/L		103	60 - 125
Xylenes, Total	15.0	14.7		ug/L		98	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	99		80 - 120
Toluene-d8 (Surr)	97		80 - 120

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

Lab Sample ID: MB 410-647253/1-A

Matrix: Water

Analysis Batch: 647432

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 647253

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.010		0.050	0.010	ug/L		05/21/25 15:32	05/22/25 06:40	1
Acenaphthylene	<0.010		0.050	0.010	ug/L		05/21/25 15:32	05/22/25 06:40	1
Anthracene	<0.010		0.050	0.010	ug/L		05/21/25 15:32	05/22/25 06:40	1
Benzo[a]anthracene	<0.010		0.050	0.010	ug/L		05/21/25 15:32	05/22/25 06:40	1
Benzo[a]pyrene	<0.010		0.050	0.010	ug/L		05/21/25 15:32	05/22/25 06:40	1
Benzo[b]fluoranthene	<0.047		0.050	0.047	ug/L		05/21/25 15:32	05/22/25 06:40	1
Benzo[g,h,i]perylene	<0.010		0.050	0.010	ug/L		05/21/25 15:32	05/22/25 06:40	1
Benzo[k]fluoranthene	<0.010		0.050	0.010	ug/L		05/21/25 15:32	05/22/25 06:40	1
Chrysene	<0.025		0.050	0.025	ug/L		05/21/25 15:32	05/22/25 06:40	1
Dibenz(a,h)anthracene	<0.020		0.050	0.020	ug/L		05/21/25 15:32	05/22/25 06:40	1
Fluoranthene	<0.023		0.050	0.023	ug/L		05/21/25 15:32	05/22/25 06:40	1
Fluorene	<0.010		0.050	0.010	ug/L		05/21/25 15:32	05/22/25 06:40	1
Indeno[1,2,3-cd]pyrene	<0.020		0.050	0.020	ug/L		05/21/25 15:32	05/22/25 06:40	1
Naphthalene	<0.068		0.070	0.068	ug/L		05/21/25 15:32	05/22/25 06:40	1
Phenanthrene	<0.030		0.070	0.030	ug/L		05/21/25 15:32	05/22/25 06:40	1
Pyrene	<0.021		0.050	0.021	ug/L		05/21/25 15:32	05/22/25 06:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	66		10 - 121	05/21/25 15:32	05/22/25 06:40	1
1-Methylnaphthalene-d10 (Surr)	83		30 - 127	05/21/25 15:32	05/22/25 06:40	1
Fluoranthene-d10 (Surr)	93		34 - 130	05/21/25 15:32	05/22/25 06:40	1

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-222423-1

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

Lab Sample ID: LCS 410-647253/2-A

Matrix: Water

Analysis Batch: 647432

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 647253

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	1.00	0.685		ug/L		69	33 - 122
Acenaphthylene	1.00	0.701		ug/L		70	35 - 123
Anthracene	1.00	0.795		ug/L		79	40 - 127
Benzo[a]anthracene	1.00	0.663		ug/L		66	34 - 128
Benzo[a]pyrene	1.00	0.871		ug/L		87	38 - 134
Benzo[b]fluoranthene	1.00	0.831		ug/L		83	35 - 131
Benzo[g,h,i]perylene	1.00	0.873		ug/L		87	31 - 139
Benzo[k]fluoranthene	1.00	1.09		ug/L		109	42 - 146
Chrysene	1.00	1.05		ug/L		105	34 - 134
Dibenz(a,h)anthracene	1.00	0.846		ug/L		85	29 - 136
Fluoranthene	1.00	0.889		ug/L		89	36 - 129
Fluorene	1.00	0.748		ug/L		75	35 - 124
Indeno[1,2,3-cd]pyrene	1.00	0.757		ug/L		76	28 - 137
Naphthalene	1.00	0.632		ug/L		63	26 - 120
Phenanthrene	1.00	0.753		ug/L		75	37 - 125
Pyrene	1.00	0.853		ug/L		85	34 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Benzo(a)pyrene-d12 (Surr)	78		10 - 121
1-Methylnaphthalene-d10 (Surr)	73		30 - 127
Fluoranthene-d10 (Surr)	94		34 - 130

Lab Sample ID: LCSD 410-647253/3-A

Matrix: Water

Analysis Batch: 647432

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 647253

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	1.00	0.789		ug/L		79	33 - 122	14	30
Acenaphthylene	1.00	0.835		ug/L		83	35 - 123	17	30
Anthracene	1.00	0.901		ug/L		90	40 - 127	13	30
Benzo[a]anthracene	1.00	0.809		ug/L		81	34 - 128	20	30
Benzo[a]pyrene	1.00	0.954		ug/L		95	38 - 134	9	30
Benzo[b]fluoranthene	1.00	0.877		ug/L		88	35 - 131	5	30
Benzo[g,h,i]perylene	1.00	0.916		ug/L		92	31 - 139	5	30
Benzo[k]fluoranthene	1.00	1.19		ug/L		119	42 - 146	8	30
Chrysene	1.00	1.01		ug/L		101	34 - 134	4	30
Dibenz(a,h)anthracene	1.00	0.812		ug/L		81	29 - 136	4	30
Fluoranthene	1.00	0.948		ug/L		95	36 - 129	6	30
Fluorene	1.00	0.866		ug/L		87	35 - 124	15	30
Indeno[1,2,3-cd]pyrene	1.00	0.772		ug/L		77	28 - 137	2	30
Naphthalene	1.00	0.777		ug/L		78	26 - 120	21	30
Phenanthrene	1.00	0.817		ug/L		82	37 - 125	8	30
Pyrene	1.00	0.911		ug/L		91	34 - 129	7	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Benzo(a)pyrene-d12 (Surr)	83		10 - 121
1-Methylnaphthalene-d10 (Surr)	88		30 - 127
Fluoranthene-d10 (Surr)	97		34 - 130

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QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-222423-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 410-645631/5

Matrix: Water

Analysis Batch: 645631

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			05/19/25 10:21	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid) (1C)	103		63 - 135					05/19/25 10:21	1

Lab Sample ID: LCS 410-645631/6

Matrix: Water

Analysis Batch: 645631

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline (Unleaded) (1C)	1100	985		ug/L		90	66 - 128		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
a,a,a-Trifluorotoluene (fid) (1C)	94		63 - 135						

Lab Sample ID: LCSD 410-645631/7

Matrix: Water

Analysis Batch: 645631

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
Gasoline (Unleaded) (1C)	1100	991		ug/L		90	66 - 128	1	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
a,a,a-Trifluorotoluene (fid) (1C)	95		63 - 135						

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-646218/1-A

Matrix: Water

Analysis Batch: 646432

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 646218

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	<0.010		0.020	0.010	ug/L		05/20/25 01:48	05/20/25 13:02	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	107		46 - 136				05/20/25 01:48	05/20/25 13:02	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	110		46 - 136				05/20/25 01:48	05/20/25 13:02	1

Lab Sample ID: LCS 410-646218/2-A

Matrix: Water

Analysis Batch: 646432

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 646218

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethylene Dibromide (1C)	0.129	0.131		ug/L		101	60 - 140		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-222423-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCS 410-646218/2-A

Matrix: Water

Analysis Batch: 646432

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 646218

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,1,2,2-Tetrachloroethane (Surr) (1C)	106		46 - 136
1,1,2,2-Tetrachloroethane (Surr) (2C)	106		46 - 136

Lab Sample ID: LCSD 410-646218/3-A

Matrix: Water

Analysis Batch: 646432

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 646218

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.129	0.126		ug/L		98	60 - 140	3	20
Surrogate		LCSD	LCSD						
		%Recovery	Qualifier						
1,1,2,2-Tetrachloroethane (Surr) (1C)		103							
1,1,2,2-Tetrachloroethane (Surr) (2C)		105							

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 410-646330/1-A

Matrix: Water

Analysis Batch: 646453

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 646330

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	<45		100	45	ug/L		05/20/25 08:03	05/20/25 23:30	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
o- terphenyl (Surr)	83		32 - 125				05/20/25 08:03	05/20/25 23:30	1

Lab Sample ID: LCS 410-646330/2-A

Matrix: Water

Analysis Batch: 646453

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 646330

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
DRO (C10-C28)	603	575		ug/L		95	20 - 115		
Surrogate		LCS	LCS						
		%Recovery	Qualifier						
o- terphenyl (Surr)		83							

Lab Sample ID: LCSD 410-646330/3-A

Matrix: Water

Analysis Batch: 646453

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 646330

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
DRO (C10-C28)	603	581		ug/L		96	20 - 115	1	20

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-222423-1

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 410-646330/3-A

Matrix: Water

Analysis Batch: 646453

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 646330

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -terphenyl (Surr)	82		32 - 125

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 410-646456/1-A

Matrix: Water

Analysis Batch: 646695

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 646456

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (2C)	<0.0080		0.010	0.0080	ug/L		05/20/25 10:45	05/20/25 17:40	1
PCB-1221 (2C)	<0.0080		0.010	0.0080	ug/L		05/20/25 10:45	05/20/25 17:40	1
PCB-1232 (2C)	<0.0080		0.010	0.0080	ug/L		05/20/25 10:45	05/20/25 17:40	1
PCB-1242 (2C)	<0.0080		0.010	0.0080	ug/L		05/20/25 10:45	05/20/25 17:40	1
PCB-1248 (2C)	<0.0080		0.010	0.0080	ug/L		05/20/25 10:45	05/20/25 17:40	1
PCB-1254 (2C)	<0.0050		0.010	0.0050	ug/L		05/20/25 10:45	05/20/25 17:40	1
PCB-1260 (2C)	<0.0050		0.010	0.0050	ug/L		05/20/25 10:45	05/20/25 17:40	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
DCB Decachlorobiphenyl (Surr) (1C)	141		46 - 161	05/20/25 10:45	05/20/25 17:40	1			
DCB Decachlorobiphenyl (Surr) (2C)	131		46 - 161	05/20/25 10:45	05/20/25 17:40	1			
Tetrachloro-m-xylene (1C)	88		41 - 146	05/20/25 10:45	05/20/25 17:40	1			
Tetrachloro-m-xylene (2C)	83		41 - 146	05/20/25 10:45	05/20/25 17:40	1			

Lab Sample ID: LCS 410-646456/2-A

Matrix: Water

Analysis Batch: 646695

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 646456

Analyte	Spike	LCS	LCS						
	Added	Result	Qualifier	Unit	D	%Rec	Limits		
PCB-1016 (2C)	0.500	0.394		ug/L		79	60 - 117		
PCB-1260 (2C)	0.500	0.455		ug/L		91	81 - 130		

	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
DCB Decachlorobiphenyl (Surr) (1C)	164	S1+	46 - 161						
DCB Decachlorobiphenyl (Surr) (2C)	154		46 - 161						
Tetrachloro-m-xylene (1C)	100		41 - 146						
Tetrachloro-m-xylene (2C)	98		41 - 146						

Lab Sample ID: LCSD 410-646456/3-A

Matrix: Water

Analysis Batch: 646695

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 646456

Analyte	Spike	LCSD	LCSD							
	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	RPD	Limit
PCB-1016 (2C)	0.500	0.386		ug/L		77	60 - 117	2		30
PCB-1260 (2C)	0.500	0.433		ug/L		87	81 - 130	5		30

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-222423-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: LCSD 410-646456/3-A

Matrix: Water

Analysis Batch: 646695

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 646456

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr) (1C)	159		46 - 161
DCB Decachlorobiphenyl (Surr) (2C)	147		46 - 161
Tetrachloro-m-xylene (1C)	97		41 - 146
Tetrachloro-m-xylene (2C)	93		41 - 146

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-647238/5

Matrix: Water

Analysis Batch: 647238

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.20	0.10	mg/L			05/21/25 14:22	1

Lab Sample ID: LCS 410-647238/3

Matrix: Water

Analysis Batch: 647238

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.750	0.722		mg/L		96	90 - 110

Lab Sample ID: LCSD 410-647238/4

Matrix: Water

Analysis Batch: 647238

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
Fluoride	0.750	0.733		mg/L		98	90 - 110	2	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-646125/1-A

Matrix: Water

Analysis Batch: 647389

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 646125

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<12		25	12	ug/L		05/19/25 21:00	05/21/25 16:06	1
Antimony	<0.20		1.0	0.20	ug/L		05/19/25 21:00	05/21/25 16:06	1
Arsenic	<0.68		2.0	0.68	ug/L		05/19/25 21:00	05/21/25 16:06	1
Barium	<0.75		2.0	0.75	ug/L		05/19/25 21:00	05/21/25 16:06	1
Beryllium	<0.12		0.50	0.12	ug/L		05/19/25 21:00	05/21/25 16:06	1
Cadmium	<0.15		0.50	0.15	ug/L		05/19/25 21:00	05/21/25 16:06	1
Calcium	<50		120	50	ug/L		05/19/25 21:00	05/21/25 16:06	1
Chromium	<0.55		2.0	0.55	ug/L		05/19/25 21:00	05/21/25 16:06	1
Cobalt	<0.16		0.50	0.16	ug/L		05/19/25 21:00	05/21/25 16:06	1
Copper	<0.85	^3+	1.0	0.85	ug/L		05/19/25 21:00	05/21/25 16:06	1
Iron	<20		50	20	ug/L		05/19/25 21:00	05/21/25 16:06	1
Lead	<0.12		0.50	0.12	ug/L		05/19/25 21:00	05/21/25 16:06	1
Magnesium	<16		50	16	ug/L		05/19/25 21:00	05/21/25 16:06	1

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QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-222423-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 410-646125/1-A

Matrix: Water

Analysis Batch: 647389

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 646125

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.95		2.0	0.95	ug/L		05/19/25 21:00	05/21/25 16:06	1
Nickel	<0.40		1.0	0.40	ug/L		05/19/25 21:00	05/21/25 16:06	1
Potassium	<65		200	65	ug/L		05/19/25 21:00	05/21/25 16:06	1
Selenium	<0.28		1.0	0.28	ug/L		05/19/25 21:00	05/21/25 16:06	1
Silver	<0.10		0.50	0.10	ug/L		05/19/25 21:00	05/21/25 16:06	1
Sodium	<90		200	90	ug/L		05/19/25 21:00	05/21/25 16:06	1
Thallium	<0.13		0.50	0.13	ug/L		05/19/25 21:00	05/21/25 16:06	1
Zinc	<4.0		10	4.0	ug/L		05/19/25 21:00	05/21/25 16:06	1
Vanadium	<0.79		4.0	0.79	ug/L		05/19/25 21:00	05/21/25 16:06	1

Lab Sample ID: LCS 410-646125/2-A

Matrix: Water

Analysis Batch: 647389

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 646125

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5000	4940		ug/L		99	90 - 110
Antimony	100	102		ug/L		102	90 - 115
Arsenic	500	499		ug/L		100	90 - 109
Barium	500	513		ug/L		103	90 - 113
Beryllium	50.0	50.7		ug/L		101	82 - 120
Cadmium	50.0	50.9		ug/L		102	90 - 112
Calcium	5000	4980		ug/L		100	90 - 112
Chromium	500	491		ug/L		98	90 - 110
Cobalt	500	490		ug/L		98	90 - 110
Iron	5000	5050		ug/L		101	90 - 111
Lead	50.0	50.5		ug/L		101	90 - 110
Magnesium	5000	4970		ug/L		99	90 - 110
Manganese	500	494		ug/L		99	90 - 111
Nickel	500	488		ug/L		98	90 - 109
Potassium	5000	4920		ug/L		98	90 - 110
Selenium	100	95.9		ug/L		96	90 - 110
Silver	50.0	51.2		ug/L		102	90 - 112
Sodium	5000	4870		ug/L		97	89 - 114
Thallium	100	102		ug/L		102	90 - 110
Zinc	500	499		ug/L		100	90 - 112
Vanadium	500	488		ug/L		98	90 - 109

Lab Sample ID: LCS 410-646125/2-A

Matrix: Water

Analysis Batch: 647414

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 646125

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	500	486		ug/L		97	90 - 110

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-222423-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 410-646125/3-A
Matrix: Water
Analysis Batch: 647389

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 646125

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	5000	5050		ug/L		101	90 - 110	2	20
Antimony	100	102		ug/L		102	90 - 115	1	20
Arsenic	500	501		ug/L		100	90 - 109	0	20
Barium	500	513		ug/L		103	90 - 113	0	20
Beryllium	50.0	51.9		ug/L		104	82 - 120	2	20
Cadmium	50.0	50.7		ug/L		101	90 - 112	0	20
Calcium	5000	5070		ug/L		101	90 - 112	2	20
Chromium	500	502		ug/L		100	90 - 110	2	20
Cobalt	500	501		ug/L		100	90 - 110	2	20
Iron	5000	5070		ug/L		101	90 - 111	0	20
Lead	50.0	50.9		ug/L		102	90 - 110	1	20
Magnesium	5000	5080		ug/L		102	90 - 110	2	20
Manganese	500	506		ug/L		101	90 - 111	2	20
Nickel	500	498		ug/L		100	90 - 109	2	20
Potassium	5000	5050		ug/L		101	90 - 110	3	20
Selenium	100	96.9		ug/L		97	90 - 110	1	20
Silver	50.0	50.2		ug/L		100	90 - 112	2	20
Sodium	5000	5000		ug/L		100	89 - 114	3	20
Thallium	100	103		ug/L		103	90 - 110	1	20
Zinc	500	500		ug/L		100	90 - 112	0	20
Vanadium	500	502		ug/L		100	90 - 109	3	20

Lab Sample ID: LCSD 410-646125/3-A
Matrix: Water
Analysis Batch: 647414

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 646125

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	500	479		ug/L		96	90 - 110	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-645567/1-A
Matrix: Water
Analysis Batch: 645985

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645567

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.087		0.20	0.087	ug/L		05/18/25 23:30	05/19/25 13:29	1

Lab Sample ID: LCS 410-645567/2-A
Matrix: Water
Analysis Batch: 645985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645567

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	1.00	0.969		ug/L		97	80 - 118		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-222423-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCSD 410-645567/3-A
Matrix: Water
Analysis Batch: 645985

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 645567

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	1.00	1.02		ug/L		102	80 - 118	5	20

Method: 9040C - pH

Lab Sample ID: LCS 410-647810/1
Matrix: Water
Analysis Batch: 647810

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
pH	7.00	7.1		S.U.		101	95 - 105		

Lab Sample ID: 410-222423-2 DU
Matrix: Water
Analysis Batch: 647810

Client Sample ID: QM-259852
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.9	HF	7.8		S.U.		0.8	4
Temperature	20.0	HF	19.9		Degrees C		0.5	4
Corrosivity	no	HF	no		NONE		NaN	

Method: OIA-1677 - Cyanide, Free (Flow Injection)

Lab Sample ID: MB 410-646545/17
Matrix: Water
Analysis Batch: 646545

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	<0.0050		0.0060	0.0050	mg/L			05/20/25 09:04	1

Lab Sample ID: LCS 410-646545/16
Matrix: Water
Analysis Batch: 646545

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Free	0.0500	0.0501		mg/L		100	82 - 132		

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-222423-1

GC/MS VOA

Analysis Batch: 645661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-222423-1	TB-051525	Total/NA	Water	8260D	
410-222423-2	QM-259852	Total/NA	Water	8260D	
MB 410-645661/7	Method Blank	Total/NA	Water	8260D	
LCS 410-645661/5	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 647253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-222423-2	QM-259852	Total/NA	Water	3510C	
MB 410-647253/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-647253/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-647253/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 647432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-222423-2	QM-259852	Total/NA	Water	8270D SIM	647253
MB 410-647253/1-A	Method Blank	Total/NA	Water	8270D SIM	647253
LCS 410-647253/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	647253
LCSD 410-647253/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM	647253

GC VOA

Analysis Batch: 645631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-222423-1	TB-051525	Total/NA	Water	8015D	
410-222423-2	QM-259852	Total/NA	Water	8015D	
MB 410-645631/5	Method Blank	Total/NA	Water	8015D	
LCS 410-645631/6	Lab Control Sample	Total/NA	Water	8015D	
LCSD 410-645631/7	Lab Control Sample Dup	Total/NA	Water	8015D	

GC Semi VOA

Prep Batch: 646218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-222423-1	TB-051525	Total/NA	Water	8011	
410-222423-2	QM-259852	Total/NA	Water	8011	
MB 410-646218/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-646218/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-646218/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Prep Batch: 646330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-222423-2	QM-259852	Total/NA	Water	3510C	
MB 410-646330/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-646330/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-646330/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 646432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-222423-1	TB-051525	Total/NA	Water	8011	646218
410-222423-2	QM-259852	Total/NA	Water	8011	646218

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-222423-1

GC Semi VOA (Continued)

Analysis Batch: 646432 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-646218/1-A	Method Blank	Total/NA	Water	8011	646218
LCS 410-646218/2-A	Lab Control Sample	Total/NA	Water	8011	646218
LCSD 410-646218/3-A	Lab Control Sample Dup	Total/NA	Water	8011	646218

Analysis Batch: 646453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-222423-2	QM-259852	Total/NA	Water	8015D	646330
MB 410-646330/1-A	Method Blank	Total/NA	Water	8015D	646330
LCS 410-646330/2-A	Lab Control Sample	Total/NA	Water	8015D	646330
LCSD 410-646330/3-A	Lab Control Sample Dup	Total/NA	Water	8015D	646330

Prep Batch: 646456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-222423-2	QM-259852	Total/NA	Water	3510C	
MB 410-646456/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-646456/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-646456/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 646695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-222423-2	QM-259852	Total/NA	Water	8082A	646456
MB 410-646456/1-A	Method Blank	Total/NA	Water	8082A	646456
LCS 410-646456/2-A	Lab Control Sample	Total/NA	Water	8082A	646456
LCSD 410-646456/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	646456

Analysis Batch: 647124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-222423-2	QM-259852	Total/NA	Water	PCB	

HPLC/IC

Analysis Batch: 647238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-222423-2	QM-259852	Total/NA	Water	EPA 300.0 R2.1	
MB 410-647238/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-647238/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-647238/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 645567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-222423-2	QM-259852	Total/NA	Water	7470A	
MB 410-645567/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-645567/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 410-645567/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	

Analysis Batch: 645985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-222423-2	QM-259852	Total/NA	Water	7470A	645567
MB 410-645567/1-A	Method Blank	Total/NA	Water	7470A	645567
LCS 410-645567/2-A	Lab Control Sample	Total/NA	Water	7470A	645567

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-222423-1

Metals (Continued)

Analysis Batch: 645985 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 410-645567/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	645567

Prep Batch: 646125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-222423-2	QM-259852	Total Recoverable	Water	3005A	
MB 410-646125/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-646125/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 410-646125/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	

Analysis Batch: 647389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-222423-2	QM-259852	Total Recoverable	Water	6020B	646125
MB 410-646125/1-A	Method Blank	Total Recoverable	Water	6020B	646125
LCS 410-646125/2-A	Lab Control Sample	Total Recoverable	Water	6020B	646125
LCSD 410-646125/3-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	646125

Analysis Batch: 647414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-222423-2	QM-259852	Total Recoverable	Water	6020B	646125
410-222423-2	QM-259852	Total Recoverable	Water	6020B	646125
LCS 410-646125/2-A	Lab Control Sample	Total Recoverable	Water	6020B	646125
LCSD 410-646125/3-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	646125

General Chemistry

Analysis Batch: 646545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-222423-2	QM-259852	Total/NA	Water	OIA-1677	
MB 410-646545/17	Method Blank	Total/NA	Water	OIA-1677	
LCS 410-646545/16	Lab Control Sample	Total/NA	Water	OIA-1677	

Analysis Batch: 647810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-222423-2	QM-259852	Total/NA	Water	9040C	
LCS 410-647810/1	Lab Control Sample	Total/NA	Water	9040C	
410-222423-2 DU	QM-259852	Total/NA	Water	9040C	

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-222423-1

Client Sample ID: TB-051525

Lab Sample ID: 410-222423-1

Date Collected: 05/15/25 07:00

Matrix: Water

Date Received: 05/15/25 15:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	645661	N7YK	ELLE	05/19/25 12:33
Total/NA	Analysis	8015D		1	645631	P5AM	ELLE	05/19/25 12:54
Total/NA	Prep	8011			646218	USL7	ELLE	05/20/25 01:48
Total/NA	Analysis	8011		1	646432	URS0	ELLE	05/20/25 21:32

Client Sample ID: QM-259852

Lab Sample ID: 410-222423-2

Date Collected: 05/15/25 10:20

Matrix: Water

Date Received: 05/15/25 15:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	645661	N7YK	ELLE	05/19/25 17:07
Total/NA	Prep	3510C			647253	JDJ2	ELLE	05/21/25 15:32
Total/NA	Analysis	8270D SIM		1	647432	TB8M	ELLE	05/22/25 09:54
Total/NA	Analysis	8015D		1	645631	P5AM	ELLE	05/19/25 20:31
Total/NA	Prep	8011			646218	USL7	ELLE	05/20/25 01:48
Total/NA	Analysis	8011		1	646432	URS0	ELLE	05/20/25 21:49
Total/NA	Prep	3510C			646330	XU9L	ELLE	05/20/25 08:03
Total/NA	Analysis	8015D		1	646453	KP5X	ELLE	05/21/25 03:20
Total/NA	Prep	3510C			646456	K2IL	ELLE	05/20/25 10:45
Total/NA	Analysis	8082A		1	646695	M6UH	ELLE	05/20/25 18:19
Total/NA	Analysis	PCB		1	647124	M6UH	ELLE	05/20/25 18:19
Total/NA	Analysis	EPA 300.0 R2.1		20	647238	KJQ8	ELLE	05/21/25 19:08
Total Recoverable	Prep	3005A			646125	UAMX	ELLE	05/19/25 21:00
Total Recoverable	Analysis	6020B		1	647414	I9IN	ELLE	05/21/25 22:32
Total Recoverable	Prep	3005A			646125	UAMX	ELLE	05/19/25 21:00
Total Recoverable	Analysis	6020B		1	647414	I9IN	ELLE	05/22/25 00:01
Total Recoverable	Prep	3005A			646125	UAMX	ELLE	05/19/25 21:00
Total Recoverable	Analysis	6020B		1	647389	I9IN	ELLE	05/21/25 20:36
Total/NA	Prep	7470A			645567	UAMX	ELLE	05/18/25 23:30
Total/NA	Analysis	7470A		1	645985	IJ3I	ELLE	05/19/25 13:42
Total/NA	Analysis	9040C		1	647810	DI9Q	ELLE	05/22/25 15:05
Total/NA	Analysis	OIA-1677		1	646545	Q3HN	ELLE	05/20/25 09:34

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Tetra Tech Inc

Job ID: 410-222423-1

Project/Site: Soil and Water Analysis - QL Frederick

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-26
A2LA	Dept. of Energy	0001.01	11-30-26
A2LA	ISO/IEC 17025	0001.01	11-30-26
Alabama	State	43200	01-31-26
Alaska	State	PA00009	06-30-25
Alaska (UST)	State	17-027	12-30-26
Arizona	State	AZ0780	03-12-26
Arkansas DEQ	State	88-00660	08-09-25
California	State	2792	01-31-26
Colorado	State	PA00009	06-30-25
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-26
Delaware (DW)	State	N/A	01-31-26
Florida	NELAP	E87997	06-30-25
Georgia (DW)	State	C048	01-31-26
Illinois	NELAP	200027	01-31-26
Iowa	State	361	03-01-26
Kansas	NELAP	E-10151	10-31-25
Kentucky (DW)	State	KY90088	12-31-25
Kentucky (UST)	State	0001.01	11-30-26
Kentucky (WW)	State	KY90088	12-31-25
Louisiana (All)	NELAP	02055	06-30-25
Maine	State	2019012	03-12-27
Maryland	State	100	06-30-25
Massachusetts	State	M-PA009	06-30-26
Michigan	State	9930	01-31-26
Minnesota	NELAP	042-999-487	12-31-25
Mississippi	State	023	01-31-26
Missouri	State	450	01-31-28
Montana (DW)	State	0098	01-01-26
Nebraska	State	NE-OS-32-17	01-31-26
New Hampshire	NELAP	2730	01-10-26
New Jersey	NELAP	PA011	06-30-25
New York	NELAP	10670	04-01-26
North Carolina (DW)	State	42705	07-31-25
North Carolina (WW/SW)	State	521	12-31-25
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-25
Oregon	NELAP	PA200001	09-11-25
Pennsylvania	NELAP	36-00037	01-31-26
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-29
Rhode Island	State	LAO00338	12-30-25
South Carolina	State	89002	01-31-26
Tennessee	State	02838	01-31-26
Texas	NELAP	T104704194-23-46	08-31-25
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-25
Virginia	NELAP	460182	06-14-26
Washington	State	C457	04-11-26

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

Eurofins Lancaster Laboratories Environment Testing, LLC

Accreditation/Certification Summary

Client: Tetra Tech Inc

Job ID: 410-222423-1

Project/Site: Soil and Water Analysis - QL Frederick

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date
West Virginia (DW)	State	9906 C	03-31-26
West Virginia DEP	State	055	07-31-25
Wyoming	State	8TMS-L	01-31-26
Wyoming (UST)	A2LA	0001.01	11-30-26

Method Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-222423-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	ELLE
8015D	Gasoline Range Organics (GRO) (GC)	SW846	ELLE
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
8015D	Diesel Range Organics (DRO) (GC)	SW846	ELLE
8082A	Polychlorinated Biphenyls (PCBs) (GC)	SW846	ELLE
PCB	Total PCB Calculation	TAL SOP	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6020B	Metals (ICP/MS)	SW846	ELLE
7470A	Mercury (CVAA)	SW846	ELLE
9040C	pH	SW846	ELLE
OIA-1677	Cyanide, Free (Flow Injection)	OI CORP	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
7470A	Preparation, Mercury	SW846	ELLE
8011	Microextraction	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

OI CORP = OI Corporation Instrument Manual.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Tetra Tech Inc

Job ID: 410-222423-1

Project/Site: Soil and Water Analysis - QL Frederick

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-222423-1	TB-051525	Water	05/15/25 07:00	05/15/25 15:04
410-222423-2	QM-259852	Water	05/15/25 10:20	05/15/25 15:04

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vironme

Chain of Custody Record



Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 410-222423-1

Login Number: 222423

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Reynolds, Benjamin

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	False	Headspace greater than 6mm in diameter in some but not all containers



ANALYTICAL REPORT

PREPARED FOR

Attn: Josh Mullis
Tetra Tech Inc
20251 Century Blvd
Suite 200
Germantown, Maryland 20874

Generated 6/12/2025 5:41:08 PM

JOB DESCRIPTION

Soil and Water Analysis - QL Frederick

JOB NUMBER

410-225566-1

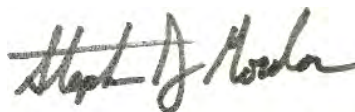
Eurofins Lancaster Laboratories Environment Testing, LLC

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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6/12/2025 5:41:08 PM

Authorized for release by
Stephen Gordon, Senior Project Manager
Stephen.Gordon@et.eurofinsus.com
(412)525-0071

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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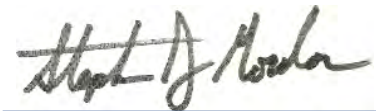


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Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC 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
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
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.

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 Inc
Project: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

Job ID: 410-225566-1

Eurofins Lancaster Laboratories Environment

Job Narrative 410-225566-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 6/4/2025 5:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.5°C and 2.7°C.

GC/MS VOA

Method 8260D_LL: The continuing calibration verification (CCV) associated with batch 410-654607 recovered above the upper control limit for Methyl acetate. Non-detections of the affected analytes are reported. Any detections are considered estimated.

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

GC/MS Semi VOA

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

Gasoline Range Organics

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

Diesel Range Organics

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

GC Semi VOA

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

PCBs

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

HPLC/IC

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

Metals

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

General Chemistry

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

Detection Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

Client Sample ID: TB-060425

Lab Sample ID: 410-225566-1

No Detections.

Client Sample ID: QM-R-266323-060425

Lab Sample ID: 410-225566-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.1	J	5.0	1.5	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.10	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.55		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.27	J	0.50	0.080	ug/L	1		8260D	Total/NA
Fluoride	4.0		2.0	1.0	mg/L	10		EPA 300.0 R2.1	Total/NA
Aluminum	68		25	12	ug/L	1		6020B	Total Recoverable
Barium	25		2.0	0.75	ug/L	1		6020B	Total Recoverable
Calcium	90000		120	50	ug/L	1		6020B	Total Recoverable
Cobalt	0.53		0.50	0.16	ug/L	1		6020B	Total Recoverable
Copper	0.91	J	1.0	0.85	ug/L	1		6020B	Total Recoverable
Iron	420		50	20	ug/L	1		6020B	Total Recoverable
Magnesium	14000		50	16	ug/L	1		6020B	Total Recoverable
Manganese	130	^2	2.0	0.95	ug/L	1		6020B	Total Recoverable
Nickel	1.9		1.0	0.40	ug/L	1		6020B	Total Recoverable
Potassium	4300		200	65	ug/L	1		6020B	Total Recoverable
Selenium	0.83	J	1.0	0.28	ug/L	1		6020B	Total Recoverable
Sodium	87000	^2	200	90	ug/L	1		6020B	Total Recoverable
Zinc	140		10	4.0	ug/L	1		6020B	Total Recoverable
pH	7.8	HF	0.01	0.01	S.U.	1		9040C	Total/NA
Temperature	20.8	HF	0.01	0.01	Degrees C	1		9040C	Total/NA
Corrosivity	NO	HF	0.01	0.01	NONE	1		9040C	Total/NA

Client Sample ID: QM-R-253093-060425

Lab Sample ID: 410-225566-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.12	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.71		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.34	J	0.50	0.080	ug/L	1		8260D	Total/NA
DRO (C10-C28)	61	J	110	48	ug/L	1		8015D	Total/NA
Fluoride	4.7		4.0	2.0	mg/L	20		EPA 300.0 R2.1	Total/NA
Aluminum	160		25	12	ug/L	1		6020B	Total Recoverable
Antimony	0.28	J	1.0	0.20	ug/L	1		6020B	Total Recoverable
Barium	32		2.0	0.75	ug/L	1		6020B	Total Recoverable
Calcium	110000		120	50	ug/L	1		6020B	Total Recoverable
Chromium	1.1	J	2.0	0.55	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

Client Sample ID: QM-R-253093-060425 (Continued)

Lab Sample ID: 410-225566-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.59		0.50	0.16	ug/L	1		6020B	Total
									Recoverable
Iron	220		50	20	ug/L	1		6020B	Total
									Recoverable
Lead	0.30	J	0.50	0.12	ug/L	1		6020B	Total
									Recoverable
Magnesium	19000		50	16	ug/L	1		6020B	Total
									Recoverable
Manganese	89		2.0	0.95	ug/L	1		6020B	Total
									Recoverable
Nickel	1.5		1.0	0.40	ug/L	1		6020B	Total
									Recoverable
Potassium	3300		200	65	ug/L	1		6020B	Total
									Recoverable
Selenium	0.91	J	1.0	0.28	ug/L	1		6020B	Total
									Recoverable
Sodium	95000		200	90	ug/L	1		6020B	Total
									Recoverable
Zinc	330		10	4.0	ug/L	1		6020B	Total
									Recoverable
pH	7.7	HF	0.01	0.01	S.U.	1		9040C	Total/NA
Temperature	20.9	HF	0.01	0.01	Degrees C	1		9040C	Total/NA
Corrosivity	NO	HF	0.01	0.01	NONE	1		9040C	Total/NA

Client Sample ID: QM-R-251059-060425

Lab Sample ID: 410-225566-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone	1.4	J	5.0	1.0	ug/L	1		8260D	Total/NA
Acetone	2.0	J	5.0	1.5	ug/L	1		8260D	Total/NA
DRO (C10-C28)	76	J	110	49	ug/L	1		8015D	Total/NA
PCB-1248 (1C)	0.020		0.010	0.0081	ug/L	1		8082A	Total/NA
PCB-1248	0.020		0.010	0.0081	ug/L	1		PCB	Total/NA
Polychlorinated biphenyls, Total	0.020		0.010	0.0081	ug/L	1		PCB	Total/NA
Fluoride	2.8		0.20	0.10	mg/L	1		EPA 300.0 R2.1	Total/NA
Aluminum	310		25	12	ug/L	1		6020B	Total
									Recoverable
Antimony	0.63	J	1.0	0.20	ug/L	1		6020B	Total
									Recoverable
Arsenic	0.94	J	2.0	0.68	ug/L	1		6020B	Total
									Recoverable
Barium	40		2.0	0.75	ug/L	1		6020B	Total
									Recoverable
Calcium	97000		120	50	ug/L	1		6020B	Total
									Recoverable
Chromium	1.3	J	2.0	0.55	ug/L	1		6020B	Total
									Recoverable
Cobalt	1.1		0.50	0.16	ug/L	1		6020B	Total
									Recoverable
Copper	2.0		1.0	0.85	ug/L	1		6020B	Total
									Recoverable
Iron	590		50	20	ug/L	1		6020B	Total
									Recoverable
Lead	0.36	J	0.50	0.12	ug/L	1		6020B	Total
									Recoverable
Magnesium	18000		50	16	ug/L	1		6020B	Total
									Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: Tetra Tech Inc

Job ID: 410-225566-1

Project/Site: Soil and Water Analysis - QL Frederick

Client Sample ID: QM-R-251059-060425 (Continued)

Lab Sample ID: 410-225566-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	280		2.0	0.95	ug/L	1		6020B	Total
									Recoverable
Nickel	1.8		1.0	0.40	ug/L	1		6020B	Total
									Recoverable
Potassium	5400		200	65	ug/L	1		6020B	Total
									Recoverable
Selenium	0.95	J	1.0	0.28	ug/L	1		6020B	Total
									Recoverable
Sodium	79000		200	90	ug/L	1		6020B	Total
									Recoverable
Zinc	14		10	4.0	ug/L	1		6020B	Total
									Recoverable
Vanadium	1.3	J	4.0	0.79	ug/L	1		6020B	Total
									Recoverable
pH	7.7	HF	0.01	0.01	S.U.	1		9040C	Total/NA
Temperature	20.9	HF	0.01	0.01	Degrees C	1		9040C	Total/NA
Corrosivity	NO	HF	0.01	0.01	NONE	1		9040C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

Client Sample ID: TB-060425

Lab Sample ID: 410-225566-1

Date Collected: 06/04/25 07:00

Matrix: Water

Date Received: 06/04/25 17:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.080		0.50	0.080	ug/L			06/08/25 21:49	1
1,1,1,2,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			06/08/25 21:49	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			06/08/25 21:49	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			06/08/25 21:49	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			06/08/25 21:49	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			06/08/25 21:49	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			06/08/25 21:49	1
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			06/08/25 21:49	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/08/25 21:49	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			06/08/25 21:49	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			06/08/25 21:49	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/08/25 21:49	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/08/25 21:49	1
2-Butanone	<1.0		5.0	1.0	ug/L			06/08/25 21:49	1
2-Hexanone	<2.0		5.0	2.0	ug/L			06/08/25 21:49	1
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			06/08/25 21:49	1
Acetone	<1.5		5.0	1.5	ug/L			06/08/25 21:49	1
Benzene	<0.10		0.50	0.10	ug/L			06/08/25 21:49	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			06/08/25 21:49	1
Bromoform	<0.30		1.0	0.30	ug/L			06/08/25 21:49	1
Bromomethane	<0.10		0.50	0.10	ug/L			06/08/25 21:49	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			06/08/25 21:49	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			06/08/25 21:49	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			06/08/25 21:49	1
Chloroethane	<0.10		0.50	0.10	ug/L			06/08/25 21:49	1
Chloroform	<0.090		0.50	0.090	ug/L			06/08/25 21:49	1
Chloromethane	<0.10		0.50	0.10	ug/L			06/08/25 21:49	1
cis-1,2-Dichloroethene	<0.080		0.50	0.080	ug/L			06/08/25 21:49	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			06/08/25 21:49	1
Cyclohexane	<0.10		0.50	0.10	ug/L			06/08/25 21:49	1
Dibromochloromethane	<0.080		0.50	0.080	ug/L			06/08/25 21:49	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			06/08/25 21:49	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			06/08/25 21:49	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			06/08/25 21:49	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			06/08/25 21:49	1
Methyl acetate	<0.20	cn	1.0	0.20	ug/L			06/08/25 21:49	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			06/08/25 21:49	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			06/08/25 21:49	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			06/08/25 21:49	1
Styrene	<0.070		0.50	0.070	ug/L			06/08/25 21:49	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			06/08/25 21:49	1
Toluene	<0.080		0.50	0.080	ug/L			06/08/25 21:49	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			06/08/25 21:49	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			06/08/25 21:49	1
Trichloroethene	<0.080		0.50	0.080	ug/L			06/08/25 21:49	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			06/08/25 21:49	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			06/08/25 21:49	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			06/08/25 21:49	1

Eurolins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

Client Sample ID: TB-060425

Lab Sample ID: 410-225566-1

Date Collected: 06/04/25 07:00

Matrix: Water

Date Received: 06/04/25 17:05

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		06/08/25 21:49	1
4-Bromofluorobenzene (Surr)	98		80 - 120		06/08/25 21:49	1
Dibromofluoromethane (Surr)	101		80 - 120		06/08/25 21:49	1
Toluene-d8 (Surr)	100		80 - 120		06/08/25 21:49	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			06/06/25 13:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid) (1C)	93		63 - 135		06/06/25 13:15	1

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	<0.0095		0.019	0.0095	ug/L		06/06/25 07:01	06/06/25 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	111		46 - 136	06/06/25 07:01	06/06/25 15:08	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	115		46 - 136	06/06/25 07:01	06/06/25 15:08	1

Client Sample ID: QM-R-266323-060425

Lab Sample ID: 410-225566-2

Date Collected: 06/04/25 10:15

Matrix: Water

Date Received: 06/04/25 17:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.080		0.50	0.080	ug/L			06/09/25 02:18	1
1,1,2,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			06/09/25 02:18	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			06/09/25 02:18	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			06/09/25 02:18	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			06/09/25 02:18	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			06/09/25 02:18	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			06/09/25 02:18	1
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			06/09/25 02:18	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/09/25 02:18	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			06/09/25 02:18	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			06/09/25 02:18	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/09/25 02:18	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/09/25 02:18	1
2-Butanone	<1.0		5.0	1.0	ug/L			06/09/25 02:18	1
2-Hexanone	<2.0		5.0	2.0	ug/L			06/09/25 02:18	1
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			06/09/25 02:18	1
Acetone	2.1 J		5.0	1.5	ug/L			06/09/25 02:18	1
Benzene	<0.10		0.50	0.10	ug/L			06/09/25 02:18	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			06/09/25 02:18	1
Bromoform	<0.30		1.0	0.30	ug/L			06/09/25 02:18	1
Bromomethane	<0.10		0.50	0.10	ug/L			06/09/25 02:18	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			06/09/25 02:18	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			06/09/25 02:18	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			06/09/25 02:18	1
Chloroethane	<0.10		0.50	0.10	ug/L			06/09/25 02:18	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

Client Sample ID: QM-R-266323-060425

Lab Sample ID: 410-225566-2

Date Collected: 06/04/25 10:15

Matrix: Water

Date Received: 06/04/25 17:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.090		0.50	0.090	ug/L			06/09/25 02:18	1
Chloromethane	<0.10		0.50	0.10	ug/L			06/09/25 02:18	1
cis-1,2-Dichloroethene	0.10	J	0.50	0.080	ug/L			06/09/25 02:18	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			06/09/25 02:18	1
Cyclohexane	<0.10		0.50	0.10	ug/L			06/09/25 02:18	1
Dibromochloromethane	<0.080		0.50	0.080	ug/L			06/09/25 02:18	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			06/09/25 02:18	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			06/09/25 02:18	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			06/09/25 02:18	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			06/09/25 02:18	1
Methyl acetate	<0.20	cn	1.0	0.20	ug/L			06/09/25 02:18	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			06/09/25 02:18	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			06/09/25 02:18	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			06/09/25 02:18	1
Styrene	<0.070		0.50	0.070	ug/L			06/09/25 02:18	1
Tetrachloroethene	0.55		0.50	0.20	ug/L			06/09/25 02:18	1
Toluene	<0.080		0.50	0.080	ug/L			06/09/25 02:18	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			06/09/25 02:18	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			06/09/25 02:18	1
Trichloroethene	0.27	J	0.50	0.080	ug/L			06/09/25 02:18	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			06/09/25 02:18	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			06/09/25 02:18	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			06/09/25 02:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		06/09/25 02:18	1
4-Bromofluorobenzene (Surr)	95		80 - 120		06/09/25 02:18	1
Dibromofluoromethane (Surr)	102		80 - 120		06/09/25 02:18	1
Toluene-d8 (Surr)	99		80 - 120		06/09/25 02:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.010		0.052	0.010	ug/L		06/11/25 07:51	06/11/25 23:23	1
Acenaphthylene	<0.010		0.052	0.010	ug/L		06/11/25 07:51	06/11/25 23:23	1
Anthracene	<0.010		0.052	0.010	ug/L		06/11/25 07:51	06/11/25 23:23	1
Benzo[a]anthracene	<0.010		0.052	0.010	ug/L		06/11/25 07:51	06/11/25 23:23	1
Benzo[a]pyrene	<0.010		0.052	0.010	ug/L		06/11/25 07:51	06/11/25 23:23	1
Benzo[b]fluoranthene	<0.048		0.052	0.048	ug/L		06/11/25 07:51	06/11/25 23:23	1
Benzo[g,h,i]perylene	<0.010		0.052	0.010	ug/L		06/11/25 07:51	06/11/25 23:23	1
Benzo[k]fluoranthene	<0.010		0.052	0.010	ug/L		06/11/25 07:51	06/11/25 23:23	1
Chrysene	<0.026		0.052	0.026	ug/L		06/11/25 07:51	06/11/25 23:23	1
Dibenz(a,h)anthracene	<0.021		0.052	0.021	ug/L		06/11/25 07:51	06/11/25 23:23	1
Fluoranthene	<0.024		0.052	0.024	ug/L		06/11/25 07:51	06/11/25 23:23	1
Fluorene	<0.010		0.052	0.010	ug/L		06/11/25 07:51	06/11/25 23:23	1
Indeno[1,2,3-cd]pyrene	<0.021		0.052	0.021	ug/L		06/11/25 07:51	06/11/25 23:23	1
Naphthalene	<0.070		0.072	0.070	ug/L		06/11/25 07:51	06/11/25 23:23	1
Phenanthrene	<0.031		0.072	0.031	ug/L		06/11/25 07:51	06/11/25 23:23	1
Pyrene	<0.022		0.052	0.022	ug/L		06/11/25 07:51	06/11/25 23:23	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

Client Sample ID: QM-R-266323-060425

Lab Sample ID: 410-225566-2

Date Collected: 06/04/25 10:15

Matrix: Water

Date Received: 06/04/25 17:05

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	51		10 - 121	06/11/25 07:51	06/11/25 23:23	1
1-Methylnaphthalene-d10 (Surr)	89		30 - 127	06/11/25 07:51	06/11/25 23:23	1
Fluoranthene-d10 (Surr)	86		34 - 130	06/11/25 07:51	06/11/25 23:23	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			06/06/25 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid) (1C)	93		63 - 135		06/06/25 15:48	1

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	<0.0093		0.019	0.0093	ug/L		06/06/25 07:01	06/06/25 15:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	113		46 - 136	06/06/25 07:01	06/06/25 15:25	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	107		46 - 136	06/06/25 07:01	06/06/25 15:25	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	<51		110	51	ug/L		06/11/25 15:14	06/12/25 13:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-terphenyl (Surr)	43		32 - 125	06/11/25 15:14	06/12/25 13:03	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	<0.0080		0.0099	0.0080	ug/L		06/10/25 09:00	06/11/25 12:18	1
PCB-1221 (1C)	<0.0080		0.0099	0.0080	ug/L		06/10/25 09:00	06/11/25 12:18	1
PCB-1232 (1C)	<0.0080		0.0099	0.0080	ug/L		06/10/25 09:00	06/11/25 12:18	1
PCB-1242 (1C)	<0.0080		0.0099	0.0080	ug/L		06/10/25 09:00	06/11/25 12:18	1
PCB-1248 (1C)	<0.0080		0.0099	0.0080	ug/L		06/10/25 09:00	06/11/25 12:18	1
PCB-1254 (1C)	<0.0050		0.0099	0.0050	ug/L		06/10/25 09:00	06/11/25 12:18	1
PCB-1260 (1C)	<0.0050		0.0099	0.0050	ug/L		06/10/25 09:00	06/11/25 12:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	106		46 - 161	06/10/25 09:00	06/11/25 12:18	1
DCB Decachlorobiphenyl (Surr) (2C)	94		46 - 161	06/10/25 09:00	06/11/25 12:18	1
Tetrachloro-m-xylene (1C)	74		41 - 146	06/10/25 09:00	06/11/25 12:18	1
Tetrachloro-m-xylene (2C)	70		41 - 146	06/10/25 09:00	06/11/25 12:18	1

Method: TAL SOP PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0080		0.0099	0.0080	ug/L			06/11/25 12:18	1
PCB-1221	<0.0080		0.0099	0.0080	ug/L			06/11/25 12:18	1
PCB-1232	<0.0080		0.0099	0.0080	ug/L			06/11/25 12:18	1
PCB-1242	<0.0080		0.0099	0.0080	ug/L			06/11/25 12:18	1
PCB-1248	<0.0080		0.0099	0.0080	ug/L			06/11/25 12:18	1
PCB-1254	<0.0050		0.0099	0.0050	ug/L			06/11/25 12:18	1
PCB-1260	<0.0050		0.0099	0.0050	ug/L			06/11/25 12:18	1
Polychlorinated biphenyls, Total	<0.0080		0.0099	0.0080	ug/L			06/11/25 12:18	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

Client Sample ID: QM-R-266323-060425

Lab Sample ID: 410-225566-2

Date Collected: 06/04/25 10:15

Matrix: Water

Date Received: 06/04/25 17:05

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	4.0		2.0	1.0	mg/L			06/07/25 20:06	10

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	68		25	12	ug/L		06/06/25 06:55	06/11/25 10:36	1
Antimony	<0.20		1.0	0.20	ug/L		06/06/25 06:55	06/06/25 18:27	1
Arsenic	<0.68		2.0	0.68	ug/L		06/06/25 06:55	06/06/25 18:27	1
Barium	25		2.0	0.75	ug/L		06/06/25 06:55	06/06/25 18:27	1
Beryllium	<0.12		0.50	0.12	ug/L		06/06/25 06:55	06/06/25 18:27	1
Cadmium	<0.15		0.50	0.15	ug/L		06/06/25 06:55	06/06/25 18:27	1
Calcium	90000		120	50	ug/L		06/06/25 06:55	06/06/25 18:27	1
Chromium	<0.55		2.0	0.55	ug/L		06/06/25 06:55	06/06/25 18:27	1
Cobalt	0.53		0.50	0.16	ug/L		06/06/25 06:55	06/06/25 18:27	1
Copper	0.91	J	1.0	0.85	ug/L		06/06/25 06:55	06/06/25 18:27	1
Iron	420		50	20	ug/L		06/06/25 06:55	06/06/25 18:27	1
Lead	<0.12		0.50	0.12	ug/L		06/06/25 06:55	06/06/25 18:27	1
Magnesium	14000		50	16	ug/L		06/06/25 06:55	06/06/25 18:27	1
Manganese	130	^2	2.0	0.95	ug/L		06/06/25 06:55	06/06/25 18:27	1
Nickel	1.9		1.0	0.40	ug/L		06/06/25 06:55	06/06/25 18:27	1
Potassium	4300		200	65	ug/L		06/06/25 06:55	06/06/25 18:27	1
Selenium	0.83	J	1.0	0.28	ug/L		06/06/25 06:55	06/06/25 18:27	1
Silver	<0.10		0.50	0.10	ug/L		06/06/25 06:55	06/06/25 18:27	1
Sodium	87000	^2	200	90	ug/L		06/06/25 06:55	06/06/25 18:27	1
Thallium	<0.13		0.50	0.13	ug/L		06/06/25 06:55	06/06/25 18:27	1
Zinc	140		10	4.0	ug/L		06/06/25 06:55	06/06/25 18:27	1
Vanadium	<0.79		4.0	0.79	ug/L		06/06/25 06:55	06/06/25 18:27	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.087		0.20	0.087	ug/L		06/10/25 23:55	06/11/25 15:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	7.8	HF	0.01	0.01	S.U.			06/06/25 18:32	1
Temperature (SW846 9040C)	20.8	HF	0.01	0.01	Degrees C			06/06/25 18:32	1
Corrosivity (SW846 9040C)	NO	HF	0.01	0.01	NONE			06/06/25 18:32	1
Cyanide, Free (OI CORP OIA-1677)	<0.0050		0.0060	0.0050	mg/L			06/05/25 14:48	1

Client Sample ID: QM-R-253093-060425

Lab Sample ID: 410-225566-3

Date Collected: 06/04/25 10:45

Matrix: Water

Date Received: 06/04/25 17:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.080		0.50	0.080	ug/L			06/09/25 02:40	1
1,1,2,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			06/09/25 02:40	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			06/09/25 02:40	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			06/09/25 02:40	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			06/09/25 02:40	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			06/09/25 02:40	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			06/09/25 02:40	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

Client Sample ID: QM-R-253093-060425

Lab Sample ID: 410-225566-3

Date Collected: 06/04/25 10:45

Matrix: Water

Date Received: 06/04/25 17:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			06/09/25 02:40	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/09/25 02:40	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			06/09/25 02:40	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			06/09/25 02:40	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/09/25 02:40	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/09/25 02:40	1
2-Butanone	<1.0		5.0	1.0	ug/L			06/09/25 02:40	1
2-Hexanone	<2.0		5.0	2.0	ug/L			06/09/25 02:40	1
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			06/09/25 02:40	1
Acetone	<1.5		5.0	1.5	ug/L			06/09/25 02:40	1
Benzene	<0.10		0.50	0.10	ug/L			06/09/25 02:40	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			06/09/25 02:40	1
Bromoform	<0.30		1.0	0.30	ug/L			06/09/25 02:40	1
Bromomethane	<0.10		0.50	0.10	ug/L			06/09/25 02:40	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			06/09/25 02:40	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			06/09/25 02:40	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			06/09/25 02:40	1
Chloroethane	<0.10		0.50	0.10	ug/L			06/09/25 02:40	1
Chloroform	<0.090		0.50	0.090	ug/L			06/09/25 02:40	1
Chloromethane	<0.10		0.50	0.10	ug/L			06/09/25 02:40	1
cis-1,2-Dichloroethene	0.12	J	0.50	0.080	ug/L			06/09/25 02:40	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			06/09/25 02:40	1
Cyclohexane	<0.10		0.50	0.10	ug/L			06/09/25 02:40	1
Dibromochloromethane	<0.080		0.50	0.080	ug/L			06/09/25 02:40	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			06/09/25 02:40	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			06/09/25 02:40	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			06/09/25 02:40	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			06/09/25 02:40	1
Methyl acetate	<0.20	cn	1.0	0.20	ug/L			06/09/25 02:40	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			06/09/25 02:40	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			06/09/25 02:40	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			06/09/25 02:40	1
Styrene	<0.070		0.50	0.070	ug/L			06/09/25 02:40	1
Tetrachloroethene	0.71		0.50	0.20	ug/L			06/09/25 02:40	1
Toluene	<0.080		0.50	0.080	ug/L			06/09/25 02:40	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			06/09/25 02:40	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			06/09/25 02:40	1
Trichloroethene	0.34	J	0.50	0.080	ug/L			06/09/25 02:40	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			06/09/25 02:40	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			06/09/25 02:40	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			06/09/25 02:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120					06/09/25 02:40	1
4-Bromofluorobenzene (Surr)	95		80 - 120					06/09/25 02:40	1
Dibromofluoromethane (Surr)	103		80 - 120					06/09/25 02:40	1
Toluene-d8 (Surr)	100		80 - 120					06/09/25 02:40	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

Client Sample ID: QM-R-253093-060425

Lab Sample ID: 410-225566-3

Date Collected: 06/04/25 10:45

Matrix: Water

Date Received: 06/04/25 17:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.011		0.054	0.011	ug/L		06/11/25 07:51	06/11/25 23:44	1
Acenaphthylene	<0.011		0.054	0.011	ug/L		06/11/25 07:51	06/11/25 23:44	1
Anthracene	<0.011		0.054	0.011	ug/L		06/11/25 07:51	06/11/25 23:44	1
Benzo[a]anthracene	<0.011		0.054	0.011	ug/L		06/11/25 07:51	06/11/25 23:44	1
Benzo[a]pyrene	<0.011		0.054	0.011	ug/L		06/11/25 07:51	06/11/25 23:44	1
Benzo[b]fluoranthene	<0.051		0.054	0.051	ug/L		06/11/25 07:51	06/11/25 23:44	1
Benzo[g,h,i]perylene	<0.011		0.054	0.011	ug/L		06/11/25 07:51	06/11/25 23:44	1
Benzo[k]fluoranthene	<0.011		0.054	0.011	ug/L		06/11/25 07:51	06/11/25 23:44	1
Chrysene	<0.027		0.054	0.027	ug/L		06/11/25 07:51	06/11/25 23:44	1
Dibenz[a,h]anthracene	<0.022		0.054	0.022	ug/L		06/11/25 07:51	06/11/25 23:44	1
Fluoranthene	<0.025		0.054	0.025	ug/L		06/11/25 07:51	06/11/25 23:44	1
Fluorene	<0.011		0.054	0.011	ug/L		06/11/25 07:51	06/11/25 23:44	1
Indeno[1,2,3-cd]pyrene	<0.022		0.054	0.022	ug/L		06/11/25 07:51	06/11/25 23:44	1
Naphthalene	<0.073		0.076	0.073	ug/L		06/11/25 07:51	06/11/25 23:44	1
Phenanthrene	<0.032		0.076	0.032	ug/L		06/11/25 07:51	06/11/25 23:44	1
Pyrene	<0.023		0.054	0.023	ug/L		06/11/25 07:51	06/11/25 23:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	60		10 - 121	06/11/25 07:51	06/11/25 23:44	1
1-Methylnaphthalene-d10 (Surr)	94		30 - 127	06/11/25 07:51	06/11/25 23:44	1
Fluoranthene-d10 (Surr)	89		34 - 130	06/11/25 07:51	06/11/25 23:44	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			06/06/25 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid) (1C)	95		63 - 135		06/06/25 16:13	1

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	<0.0094		0.019	0.0094	ug/L		06/06/25 07:01	06/06/25 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	117		46 - 136	06/06/25 07:01	06/06/25 16:16	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	115		46 - 136	06/06/25 07:01	06/06/25 16:16	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	61	J	110	48	ug/L		06/11/25 15:14	06/12/25 13:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-terphenyl (Surr)	79		32 - 125	06/11/25 15:14	06/12/25 13:26	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	<0.0081		0.010	0.0081	ug/L		06/10/25 09:00	06/11/25 12:31	1
PCB-1221 (1C)	<0.0081		0.010	0.0081	ug/L		06/10/25 09:00	06/11/25 12:31	1
PCB-1232 (1C)	<0.0081		0.010	0.0081	ug/L		06/10/25 09:00	06/11/25 12:31	1
PCB-1242 (1C)	<0.0081		0.010	0.0081	ug/L		06/10/25 09:00	06/11/25 12:31	1
PCB-1248 (1C)	<0.0081		0.010	0.0081	ug/L		06/10/25 09:00	06/11/25 12:31	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

Client Sample ID: QM-R-253093-060425

Lab Sample ID: 410-225566-3

Date Collected: 06/04/25 10:45

Matrix: Water

Date Received: 06/04/25 17:05

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254 (1C)	<0.0051		0.010	0.0051	ug/L		06/10/25 09:00	06/11/25 12:31	1
PCB-1260 (1C)	<0.0051		0.010	0.0051	ug/L		06/10/25 09:00	06/11/25 12:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	123		46 - 161				06/10/25 09:00	06/11/25 12:31	1
DCB Decachlorobiphenyl (Surr) (2C)	113		46 - 161				06/10/25 09:00	06/11/25 12:31	1
Tetrachloro-m-xylene (1C)	85		41 - 146				06/10/25 09:00	06/11/25 12:31	1
Tetrachloro-m-xylene (2C)	79		41 - 146				06/10/25 09:00	06/11/25 12:31	1

Method: TAL SOP PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0081		0.010	0.0081	ug/L			06/11/25 12:31	1
PCB-1221	<0.0081		0.010	0.0081	ug/L			06/11/25 12:31	1
PCB-1232	<0.0081		0.010	0.0081	ug/L			06/11/25 12:31	1
PCB-1242	<0.0081		0.010	0.0081	ug/L			06/11/25 12:31	1
PCB-1248	<0.0081		0.010	0.0081	ug/L			06/11/25 12:31	1
PCB-1254	<0.0051		0.010	0.0051	ug/L			06/11/25 12:31	1
PCB-1260	<0.0051		0.010	0.0051	ug/L			06/11/25 12:31	1
Polychlorinated biphenyls, Total	<0.0081		0.010	0.0081	ug/L			06/11/25 12:31	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	4.7		4.0	2.0	mg/L			06/07/25 19:11	20

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	160		25	12	ug/L		06/06/25 23:10	06/09/25 20:19	1
Antimony	0.28	J	1.0	0.20	ug/L		06/06/25 23:10	06/09/25 20:19	1
Arsenic	<0.68		2.0	0.68	ug/L		06/06/25 23:10	06/09/25 20:19	1
Barium	32		2.0	0.75	ug/L		06/06/25 23:10	06/09/25 20:19	1
Beryllium	<0.12		0.50	0.12	ug/L		06/06/25 23:10	06/10/25 17:05	1
Cadmium	<0.15		0.50	0.15	ug/L		06/06/25 23:10	06/09/25 20:19	1
Calcium	110000		120	50	ug/L		06/06/25 23:10	06/09/25 20:19	1
Chromium	1.1	J	2.0	0.55	ug/L		06/06/25 23:10	06/09/25 20:19	1
Cobalt	0.59		0.50	0.16	ug/L		06/06/25 23:10	06/09/25 20:19	1
Copper	<0.85		1.0	0.85	ug/L		06/06/25 23:10	06/09/25 20:19	1
Iron	220		50	20	ug/L		06/06/25 23:10	06/09/25 20:19	1
Lead	0.30	J	0.50	0.12	ug/L		06/06/25 23:10	06/09/25 20:19	1
Magnesium	19000		50	16	ug/L		06/06/25 23:10	06/09/25 20:19	1
Manganese	89		2.0	0.95	ug/L		06/06/25 23:10	06/09/25 20:19	1
Nickel	1.5		1.0	0.40	ug/L		06/06/25 23:10	06/09/25 20:19	1
Potassium	3300		200	65	ug/L		06/06/25 23:10	06/09/25 20:19	1
Selenium	0.91	J	1.0	0.28	ug/L		06/06/25 23:10	06/09/25 20:19	1
Silver	<0.10		0.50	0.10	ug/L		06/06/25 23:10	06/09/25 20:19	1
Sodium	95000		200	90	ug/L		06/06/25 23:10	06/09/25 20:19	1
Thallium	<0.13		0.50	0.13	ug/L		06/06/25 23:10	06/09/25 20:19	1
Zinc	330		10	4.0	ug/L		06/06/25 23:10	06/10/25 17:05	1
Vanadium	<0.79		4.0	0.79	ug/L		06/06/25 23:10	06/09/25 20:19	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

Client Sample ID: QM-R-253093-060425

Lab Sample ID: 410-225566-3

Date Collected: 06/04/25 10:45

Matrix: Water

Date Received: 06/04/25 17:05

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.087		0.20	0.087	ug/L		06/10/25 23:55	06/11/25 15:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	7.7	HF	0.01	0.01	S.U.			06/06/25 18:32	1
Temperature (SW846 9040C)	20.9	HF	0.01	0.01	Degrees C			06/06/25 18:32	1
Corrosivity (SW846 9040C)	NO	HF	0.01	0.01	NONE			06/06/25 18:32	1
Cyanide, Free (OI CORP OIA-1677)	<0.0050		0.0060	0.0050	mg/L			06/05/25 14:16	1

Client Sample ID: QM-R-251059-060425

Lab Sample ID: 410-225566-4

Date Collected: 06/04/25 11:15

Matrix: Water

Date Received: 06/04/25 17:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.080		0.50	0.080	ug/L			06/09/25 03:02	1
1,1,2,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			06/09/25 03:02	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			06/09/25 03:02	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			06/09/25 03:02	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			06/09/25 03:02	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			06/09/25 03:02	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			06/09/25 03:02	1
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			06/09/25 03:02	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/09/25 03:02	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			06/09/25 03:02	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			06/09/25 03:02	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/09/25 03:02	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/09/25 03:02	1
2-Butanone	1.4	J	5.0	1.0	ug/L			06/09/25 03:02	1
2-Hexanone	<2.0		5.0	2.0	ug/L			06/09/25 03:02	1
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			06/09/25 03:02	1
Acetone	2.0	J	5.0	1.5	ug/L			06/09/25 03:02	1
Benzene	<0.10		0.50	0.10	ug/L			06/09/25 03:02	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			06/09/25 03:02	1
Bromoform	<0.30		1.0	0.30	ug/L			06/09/25 03:02	1
Bromomethane	<0.10		0.50	0.10	ug/L			06/09/25 03:02	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			06/09/25 03:02	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			06/09/25 03:02	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			06/09/25 03:02	1
Chloroethane	<0.10		0.50	0.10	ug/L			06/09/25 03:02	1
Chloroform	<0.090		0.50	0.090	ug/L			06/09/25 03:02	1
Chloromethane	<0.10		0.50	0.10	ug/L			06/09/25 03:02	1
cis-1,2-Dichloroethene	<0.080		0.50	0.080	ug/L			06/09/25 03:02	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			06/09/25 03:02	1
Cyclohexane	<0.10		0.50	0.10	ug/L			06/09/25 03:02	1
Dibromochloromethane	<0.080		0.50	0.080	ug/L			06/09/25 03:02	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			06/09/25 03:02	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			06/09/25 03:02	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			06/09/25 03:02	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			06/09/25 03:02	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

Client Sample ID: QM-R-251059-060425

Lab Sample ID: 410-225566-4

Date Collected: 06/04/25 11:15

Matrix: Water

Date Received: 06/04/25 17:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	<0.20	cn	1.0	0.20	ug/L			06/09/25 03:02	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			06/09/25 03:02	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			06/09/25 03:02	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			06/09/25 03:02	1
Styrene	<0.070		0.50	0.070	ug/L			06/09/25 03:02	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			06/09/25 03:02	1
Toluene	<0.080		0.50	0.080	ug/L			06/09/25 03:02	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			06/09/25 03:02	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			06/09/25 03:02	1
Trichloroethene	<0.080		0.50	0.080	ug/L			06/09/25 03:02	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			06/09/25 03:02	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			06/09/25 03:02	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			06/09/25 03:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		06/09/25 03:02	1
4-Bromofluorobenzene (Surr)	96		80 - 120		06/09/25 03:02	1
Dibromofluoromethane (Surr)	102		80 - 120		06/09/25 03:02	1
Toluene-d8 (Surr)	99		80 - 120		06/09/25 03:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.010		0.052	0.010	ug/L		06/11/25 07:51	06/12/25 00:06	1
Acenaphthylene	<0.010		0.052	0.010	ug/L		06/11/25 07:51	06/12/25 00:06	1
Anthracene	<0.010		0.052	0.010	ug/L		06/11/25 07:51	06/12/25 00:06	1
Benzo[a]anthracene	<0.010		0.052	0.010	ug/L		06/11/25 07:51	06/12/25 00:06	1
Benzo[a]pyrene	<0.010		0.052	0.010	ug/L		06/11/25 07:51	06/12/25 00:06	1
Benzo[b]fluoranthene	<0.049		0.052	0.049	ug/L		06/11/25 07:51	06/12/25 00:06	1
Benzo[g,h,i]perylene	<0.010		0.052	0.010	ug/L		06/11/25 07:51	06/12/25 00:06	1
Benzo[k]fluoranthene	<0.010		0.052	0.010	ug/L		06/11/25 07:51	06/12/25 00:06	1
Chrysene	<0.026		0.052	0.026	ug/L		06/11/25 07:51	06/12/25 00:06	1
Dibenz(a,h)anthracene	<0.021		0.052	0.021	ug/L		06/11/25 07:51	06/12/25 00:06	1
Fluoranthene	<0.024		0.052	0.024	ug/L		06/11/25 07:51	06/12/25 00:06	1
Fluorene	<0.010		0.052	0.010	ug/L		06/11/25 07:51	06/12/25 00:06	1
Indeno[1,2,3-cd]pyrene	<0.021		0.052	0.021	ug/L		06/11/25 07:51	06/12/25 00:06	1
Naphthalene	<0.071		0.073	0.071	ug/L		06/11/25 07:51	06/12/25 00:06	1
Phenanthrene	<0.031		0.073	0.031	ug/L		06/11/25 07:51	06/12/25 00:06	1
Pyrene	<0.022		0.052	0.022	ug/L		06/11/25 07:51	06/12/25 00:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	25		10 - 121	06/11/25 07:51	06/12/25 00:06	1
1-Methylnaphthalene-d10 (Surr)	87		30 - 127	06/11/25 07:51	06/12/25 00:06	1
Fluoranthene-d10 (Surr)	81		34 - 130	06/11/25 07:51	06/12/25 00:06	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			06/06/25 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid) (1C)	93		63 - 135		06/06/25 16:38	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

Client Sample ID: QM-R-251059-060425

Lab Sample ID: 410-225566-4

Date Collected: 06/04/25 11:15

Matrix: Water

Date Received: 06/04/25 17:05

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	<0.0095		0.019	0.0095	ug/L		06/06/25 07:01	06/06/25 16:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	111		46 - 136				06/06/25 07:01	06/06/25 16:33	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	115		46 - 136				06/06/25 07:01	06/06/25 16:33	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	76	J	110	49	ug/L		06/11/25 15:14	06/12/25 13:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-terphenyl (Surr)	59		32 - 125				06/11/25 15:14	06/12/25 13:49	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	<0.0081		0.010	0.0081	ug/L		06/10/25 09:00	06/11/25 12:44	1
PCB-1221 (1C)	<0.0081		0.010	0.0081	ug/L		06/10/25 09:00	06/11/25 12:44	1
PCB-1232 (1C)	<0.0081		0.010	0.0081	ug/L		06/10/25 09:00	06/11/25 12:44	1
PCB-1242 (1C)	<0.0081		0.010	0.0081	ug/L		06/10/25 09:00	06/11/25 12:44	1
PCB-1248 (1C)	0.020		0.010	0.0081	ug/L		06/10/25 09:00	06/11/25 12:44	1
PCB-1254 (1C)	<0.0051		0.010	0.0051	ug/L		06/10/25 09:00	06/11/25 12:44	1
PCB-1260 (1C)	<0.0051		0.010	0.0051	ug/L		06/10/25 09:00	06/11/25 12:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	112		46 - 161				06/10/25 09:00	06/11/25 12:44	1
DCB Decachlorobiphenyl (Surr) (2C)	98		46 - 161				06/10/25 09:00	06/11/25 12:44	1
Tetrachloro-m-xylene (1C)	77		41 - 146				06/10/25 09:00	06/11/25 12:44	1
Tetrachloro-m-xylene (2C)	71		41 - 146				06/10/25 09:00	06/11/25 12:44	1

Method: TAL SOP PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0081		0.010	0.0081	ug/L			06/11/25 12:44	1
PCB-1221	<0.0081		0.010	0.0081	ug/L			06/11/25 12:44	1
PCB-1232	<0.0081		0.010	0.0081	ug/L			06/11/25 12:44	1
PCB-1242	<0.0081		0.010	0.0081	ug/L			06/11/25 12:44	1
PCB-1248	0.020		0.010	0.0081	ug/L			06/11/25 12:44	1
PCB-1254	<0.0051		0.010	0.0051	ug/L			06/11/25 12:44	1
PCB-1260	<0.0051		0.010	0.0051	ug/L			06/11/25 12:44	1
Polychlorinated biphenyls, Total	0.020		0.010	0.0081	ug/L			06/11/25 12:44	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.8		0.20	0.10	mg/L			06/07/25 21:09	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	310		25	12	ug/L		06/06/25 23:10	06/09/25 20:17	1
Antimony	0.63	J	1.0	0.20	ug/L		06/06/25 23:10	06/09/25 20:17	1
Arsenic	0.94	J	2.0	0.68	ug/L		06/06/25 23:10	06/09/25 20:17	1
Barium	40		2.0	0.75	ug/L		06/06/25 23:10	06/09/25 20:17	1
Beryllium	<0.12		0.50	0.12	ug/L		06/06/25 23:10	06/10/25 17:03	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

Client Sample ID: QM-R-251059-060425

Lab Sample ID: 410-225566-4

Date Collected: 06/04/25 11:15

Matrix: Water

Date Received: 06/04/25 17:05

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.15		0.50	0.15	ug/L		06/06/25 23:10	06/09/25 20:17	1
Calcium	97000		120	50	ug/L		06/06/25 23:10	06/09/25 20:17	1
Chromium	1.3	J	2.0	0.55	ug/L		06/06/25 23:10	06/09/25 20:17	1
Cobalt	1.1		0.50	0.16	ug/L		06/06/25 23:10	06/09/25 20:17	1
Copper	2.0		1.0	0.85	ug/L		06/06/25 23:10	06/09/25 20:17	1
Iron	590		50	20	ug/L		06/06/25 23:10	06/09/25 20:17	1
Lead	0.36	J	0.50	0.12	ug/L		06/06/25 23:10	06/09/25 20:17	1
Magnesium	18000		50	16	ug/L		06/06/25 23:10	06/09/25 20:17	1
Manganese	280		2.0	0.95	ug/L		06/06/25 23:10	06/09/25 20:17	1
Nickel	1.8		1.0	0.40	ug/L		06/06/25 23:10	06/09/25 20:17	1
Potassium	5400		200	65	ug/L		06/06/25 23:10	06/09/25 20:17	1
Selenium	0.95	J	1.0	0.28	ug/L		06/06/25 23:10	06/09/25 20:17	1
Silver	<0.10		0.50	0.10	ug/L		06/06/25 23:10	06/09/25 20:17	1
Sodium	79000		200	90	ug/L		06/06/25 23:10	06/09/25 20:17	1
Thallium	<0.13		0.50	0.13	ug/L		06/06/25 23:10	06/09/25 20:17	1
Zinc	14		10	4.0	ug/L		06/06/25 23:10	06/09/25 20:17	1
Vanadium	1.3	J	4.0	0.79	ug/L		06/06/25 23:10	06/09/25 20:17	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.087		0.20	0.087	ug/L		06/10/25 23:55	06/11/25 15:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	7.7	HF	0.01	0.01	S.U.			06/06/25 18:32	1
Temperature (SW846 9040C)	20.9	HF	0.01	0.01	Degrees C			06/06/25 18:32	1
Corrosivity (SW846 9040C)	NO	HF	0.01	0.01	NONE			06/06/25 18:32	1
Cyanide, Free (OI CORP OIA-1677)	<0.0050		0.0060	0.0050	mg/L			06/05/25 14:56	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (80-120)	BFB (80-120)	DBFM (80-120)	TOL (80-120)
410-225566-1	TB-060425	100	98	101	100
410-225566-2	QM-R-266323-060425	101	95	102	99
410-225566-3	QM-R-253093-060425	102	95	103	100
410-225566-4	QM-R-251059-060425	102	96	102	99
LCS 410-654607/4	Lab Control Sample	101	101	103	99
LCSD 410-654607/5	Lab Control Sample Dup	100	100	102	99
MB 410-654607/7	Method Blank	103	98	102	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BAPd12 (10-121)	MNPd10 (30-127)	FLN10 (34-130)
410-225566-2	QM-R-266323-060425	51	89	86
410-225566-3	QM-R-253093-060425	60	94	89
410-225566-4	QM-R-251059-060425	25	87	81
LCS 410-655903/2-A	Lab Control Sample	82	92	85
MB 410-655903/1-A	Method Blank	80	102	85

Surrogate Legend

BAPd12 = Benzo(a)pyrene-d12 (Surr)

MNPd10 = 1-Methylnaphthalene-d10 (Surr)

FLN10 = Fluoranthene-d10 (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		TFT-F1							
Lab Sample ID	Client Sample ID	(63-135)							
410-225566-1	TB-060425	93							
410-225566-2	QM-R-266323-060425	93							
410-225566-3	QM-R-253093-060425	95							
410-225566-4	QM-R-251059-060425	93							
LCS 410-653935/6	Lab Control Sample	86							
LCSD 410-653935/7	Lab Control Sample Dup	84							
MB 410-653935/5	Method Blank	95							

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)

Surrogate Summary

Client: Tetra Tech Inc

Job ID: 410-225566-1

Project/Site: Soil and Water Analysis - QL Frederick

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1122TCA1 (46-136)	1122TCA2 (46-136)
410-225566-1	TB-060425	111	115
410-225566-2	QM-R-266323-060425	113	107
410-225566-3	QM-R-253093-060425	117	115
410-225566-4	QM-R-251059-060425	111	115
LCS 410-653820/2-A	Lab Control Sample	116	116
LCSD 410-653820/3-A	Lab Control Sample Dup	109	111
MB 410-653820/1-A	Method Blank	119	119
Surrogate Legend			
1122TCA = 1,1,2,2-Tetrachloroethane (Surr)			

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	OTP (32-125)	
410-225566-2	QM-R-266323-060425	43	
410-225566-3	QM-R-253093-060425	79	
410-225566-4	QM-R-251059-060425	59	
LCS 410-656218/2-A	Lab Control Sample	28 S1-	
MB 410-656218/1-A	Method Blank	81	
Surrogate Legend			
OTP = o- terphenyl (Surr)			

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCB1 (46-161)	DCB2 (46-161)	TCX1 (41-146)	TCX2 (41-146)
410-225566-2	QM-R-266323-060425	106	94	74	70
410-225566-3	QM-R-253093-060425	123	113	85	79
410-225566-4	QM-R-251059-060425	112	98	77	71
LCS 410-655271/2-A	Lab Control Sample	124	113	78	74
LCSD 410-655271/3-A	Lab Control Sample Dup	131	117	75	68
MB 410-655271/1-A	Method Blank	120	109	78	72
Surrogate Legend					
DCB = DCB Decachlorobiphenyl (Surr)					
TCX = Tetrachloro-m-xylene					

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

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

Lab Sample ID: MB 410-654607/7

Matrix: Water

Analysis Batch: 654607

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	<0.080		0.50	0.080	ug/L			06/08/25 20:42	1
1,1,1,2,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			06/08/25 20:42	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			06/08/25 20:42	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			06/08/25 20:42	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			06/08/25 20:42	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			06/08/25 20:42	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			06/08/25 20:42	1
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			06/08/25 20:42	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/08/25 20:42	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			06/08/25 20:42	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			06/08/25 20:42	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/08/25 20:42	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/08/25 20:42	1
2-Butanone	<1.0		5.0	1.0	ug/L			06/08/25 20:42	1
2-Hexanone	<2.0		5.0	2.0	ug/L			06/08/25 20:42	1
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			06/08/25 20:42	1
Acetone	<1.5		5.0	1.5	ug/L			06/08/25 20:42	1
Benzene	<0.10		0.50	0.10	ug/L			06/08/25 20:42	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			06/08/25 20:42	1
Bromoform	<0.30		1.0	0.30	ug/L			06/08/25 20:42	1
Bromomethane	<0.10		0.50	0.10	ug/L			06/08/25 20:42	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			06/08/25 20:42	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			06/08/25 20:42	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			06/08/25 20:42	1
Chloroethane	<0.10		0.50	0.10	ug/L			06/08/25 20:42	1
Chloroform	<0.090		0.50	0.090	ug/L			06/08/25 20:42	1
Chloromethane	<0.10		0.50	0.10	ug/L			06/08/25 20:42	1
cis-1,2-Dichloroethene	<0.080		0.50	0.080	ug/L			06/08/25 20:42	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			06/08/25 20:42	1
Cyclohexane	<0.10		0.50	0.10	ug/L			06/08/25 20:42	1
Dibromochloromethane	<0.080		0.50	0.080	ug/L			06/08/25 20:42	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			06/08/25 20:42	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			06/08/25 20:42	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			06/08/25 20:42	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			06/08/25 20:42	1
Methyl acetate	<0.20		1.0	0.20	ug/L			06/08/25 20:42	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			06/08/25 20:42	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			06/08/25 20:42	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			06/08/25 20:42	1
Styrene	<0.070		0.50	0.070	ug/L			06/08/25 20:42	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			06/08/25 20:42	1
Toluene	<0.080		0.50	0.080	ug/L			06/08/25 20:42	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			06/08/25 20:42	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			06/08/25 20:42	1
Trichloroethene	<0.080		0.50	0.080	ug/L			06/08/25 20:42	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			06/08/25 20:42	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			06/08/25 20:42	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			06/08/25 20:42	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

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

Lab Sample ID: MB 410-654607/7

Matrix: Water

Analysis Batch: 654607

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		06/08/25 20:42	1
4-Bromofluorobenzene (Surr)	98		80 - 120		06/08/25 20:42	1
Dibromofluoromethane (Surr)	102		80 - 120		06/08/25 20:42	1
Toluene-d8 (Surr)	100		80 - 120		06/08/25 20:42	1

Lab Sample ID: LCS 410-654607/4

Matrix: Water

Analysis Batch: 654607

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	5.00	5.45		ug/L		109	78 - 126
1,1,1,2-Tetrachloroethane	5.00	5.21		ug/L		104	75 - 123
1,1,1,2-Trichloroethane	5.00	5.26		ug/L		105	80 - 120
1,1-Dichloroethane	5.00	5.46		ug/L		109	74 - 120
1,1-Dichloroethene	5.00	5.68		ug/L		114	80 - 131
1,2,4-Trichlorobenzene	5.00	5.59		ug/L		112	68 - 122
1,2-Dibromo-3-Chloropropane	5.00	5.35		ug/L		107	75 - 124
1,2-Dibromoethane	5.00	5.25		ug/L		105	80 - 120
1,2-Dichlorobenzene	5.00	5.32		ug/L		106	80 - 120
1,2-Dichloroethane	5.00	5.26		ug/L		105	69 - 122
1,2-Dichloropropane	5.00	5.31		ug/L		106	80 - 120
1,3-Dichlorobenzene	5.00	5.23		ug/L		105	80 - 120
1,4-Dichlorobenzene	5.00	5.17		ug/L		103	80 - 120
2-Butanone	62.5	67.0		ug/L		107	59 - 141
2-Hexanone	62.5	68.3		ug/L		109	52 - 140
4-Methyl-2-pentanone	62.5	67.6		ug/L		108	55 - 140
Acetone	62.5	65.5		ug/L		105	60 - 146
Benzene	5.00	5.20		ug/L		104	80 - 120
Bromodichloromethane	5.00	5.34		ug/L		107	80 - 123
Bromoform	5.00	5.47		ug/L		109	75 - 126
Bromomethane	5.00	5.16		ug/L		103	63 - 120
Carbon disulfide	5.00	5.01		ug/L		100	67 - 130
Carbon tetrachloride	5.00	5.44		ug/L		109	64 - 141
Chlorobenzene	5.00	5.20		ug/L		104	80 - 120
Chloroethane	5.00	4.92		ug/L		98	63 - 120
Chloroform	5.00	5.37		ug/L		107	80 - 120
Chloromethane	5.00	4.45		ug/L		89	56 - 124
cis-1,2-Dichloroethene	5.00	5.30		ug/L		106	80 - 122
cis-1,3-Dichloropropene	5.00	5.14		ug/L		103	67 - 121
Cyclohexane	5.00	5.09		ug/L		102	69 - 120
Dibromochloromethane	5.00	5.35		ug/L		107	80 - 123
Dichlorodifluoromethane	5.00	3.69		ug/L		74	43 - 123
Ethylbenzene	5.00	5.19		ug/L		104	80 - 120
1,1,2-Trichlorotrifluoroethane	5.00	5.19		ug/L		104	67 - 124
Isopropylbenzene	5.00	5.93		ug/L		119	80 - 120
Methyl acetate	5.00	5.67		ug/L		113	59 - 143
Methyl tertiary butyl ether	5.00	5.05		ug/L		101	69 - 120
Methylcyclohexane	5.00	5.08		ug/L		102	80 - 120

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

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

Lab Sample ID: LCS 410-654607/4

Matrix: Water

Analysis Batch: 654607

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	5.00	5.50		ug/L		110	80 - 120
Styrene	5.00	5.33		ug/L		107	80 - 120
Tetrachloroethene	5.00	5.03		ug/L		101	80 - 120
Toluene	5.00	5.18		ug/L		104	80 - 120
trans-1,2-Dichloroethene	5.00	5.46		ug/L		109	80 - 122
trans-1,3-Dichloropropene	5.00	5.23		ug/L		105	61 - 129
Trichloroethene	5.00	5.23		ug/L		105	80 - 120
Trichlorofluoromethane	5.00	4.89		ug/L		98	53 - 136
Vinyl chloride	5.00	4.67		ug/L		93	60 - 125
Xylenes, Total	15.0	15.6		ug/L		104	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	103		80 - 120
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: LCSD 410-654607/5

Matrix: Water

Analysis Batch: 654607

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	5.00	5.35		ug/L		107	78 - 126	2	30
1,1,2,2-Tetrachloroethane	5.00	5.25		ug/L		105	75 - 123	1	30
1,1,2-Trichloroethane	5.00	5.18		ug/L		104	80 - 120	2	30
1,1-Dichloroethane	5.00	5.40		ug/L		108	74 - 120	1	30
1,1-Dichloroethene	5.00	5.56		ug/L		111	80 - 131	2	30
1,2,4-Trichlorobenzene	5.00	5.14		ug/L		103	68 - 122	8	30
1,2-Dibromo-3-Chloropropane	5.00	5.21		ug/L		104	75 - 124	3	30
1,2-Dibromoethane	5.00	5.19		ug/L		104	80 - 120	1	30
1,2-Dichlorobenzene	5.00	5.22		ug/L		104	80 - 120	2	30
1,2-Dichloroethane	5.00	5.35		ug/L		107	69 - 122	2	30
1,2-Dichloropropane	5.00	5.24		ug/L		105	80 - 120	1	30
1,3-Dichlorobenzene	5.00	5.22		ug/L		104	80 - 120	0	30
1,4-Dichlorobenzene	5.00	5.19		ug/L		104	80 - 120	0	30
2-Butanone	62.5	65.7		ug/L		105	59 - 141	2	30
2-Hexanone	62.5	66.3		ug/L		106	52 - 140	3	30
4-Methyl-2-pentanone	62.5	66.1		ug/L		106	55 - 140	2	30
Acetone	62.5	64.1		ug/L		103	60 - 146	2	30
Benzene	5.00	5.30		ug/L		106	80 - 120	2	30
Bromodichloromethane	5.00	5.32		ug/L		106	80 - 123	0	30
Bromoform	5.00	5.42		ug/L		108	75 - 126	1	30
Bromomethane	5.00	5.08		ug/L		102	63 - 120	2	30
Carbon disulfide	5.00	4.89		ug/L		98	67 - 130	2	30
Carbon tetrachloride	5.00	5.40		ug/L		108	64 - 141	1	30
Chlorobenzene	5.00	5.16		ug/L		103	80 - 120	1	30
Chloroethane	5.00	4.97		ug/L		99	63 - 120	1	30
Chloroform	5.00	5.35		ug/L		107	80 - 120	0	30

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

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

Lab Sample ID: LCSD 410-654607/5

Matrix: Water

Analysis Batch: 654607

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
Chloromethane	5.00	4.22		ug/L		84	56 - 124	5	30
cis-1,2-Dichloroethene	5.00	5.28		ug/L		106	80 - 122	0	30
cis-1,3-Dichloropropene	5.00	5.05		ug/L		101	67 - 121	2	30
Cyclohexane	5.00	5.05		ug/L		101	69 - 120	1	30
Dibromochloromethane	5.00	5.28		ug/L		106	80 - 123	1	30
Dichlorodifluoromethane	5.00	3.68		ug/L		74	43 - 123	0	30
Ethylbenzene	5.00	5.16		ug/L		103	80 - 120	1	30
1,1,2-Trichlorotrifluoroethane	5.00	5.18		ug/L		104	67 - 124	0	30
Isopropylbenzene	5.00	5.91		ug/L		118	80 - 120	0	30
Methyl acetate	5.00	6.03		ug/L		121	59 - 143	6	30
Methyl tertiary butyl ether	5.00	4.96		ug/L		99	69 - 120	2	30
Methylcyclohexane	5.00	5.06		ug/L		101	80 - 120	0	30
Methylene Chloride	5.00	5.42		ug/L		108	80 - 120	1	30
Styrene	5.00	5.29		ug/L		106	80 - 120	1	30
Tetrachloroethene	5.00	4.93		ug/L		99	80 - 120	2	30
Toluene	5.00	5.21		ug/L		104	80 - 120	1	30
trans-1,2-Dichloroethene	5.00	5.37		ug/L		107	80 - 122	2	30
trans-1,3-Dichloropropene	5.00	5.21		ug/L		104	61 - 129	0	30
Trichloroethene	5.00	5.15		ug/L		103	80 - 120	1	30
Trichlorofluoromethane	5.00	4.80		ug/L		96	53 - 136	2	30
Vinyl chloride	5.00	4.54		ug/L		91	60 - 125	3	30
Xylenes, Total	15.0	15.6		ug/L		104	80 - 120	0	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	102		80 - 120
Toluene-d8 (Surr)	99		80 - 120

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

Lab Sample ID: MB 410-655903/1-A

Matrix: Water

Analysis Batch: 656273

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 655903

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.010		0.050	0.010	ug/L		06/11/25 07:51	06/11/25 20:55	1
Acenaphthylene	<0.010		0.050	0.010	ug/L		06/11/25 07:51	06/11/25 20:55	1
Anthracene	<0.010		0.050	0.010	ug/L		06/11/25 07:51	06/11/25 20:55	1
Benzo[a]anthracene	0.0647		0.050	0.010	ug/L		06/11/25 07:51	06/11/25 20:55	1
Benzo[a]pyrene	0.0868		0.050	0.010	ug/L		06/11/25 07:51	06/11/25 20:55	1
Benzo[b]fluoranthene	0.129		0.050	0.047	ug/L		06/11/25 07:51	06/11/25 20:55	1
Benzo[g,h,i]perylene	0.257		0.050	0.010	ug/L		06/11/25 07:51	06/11/25 20:55	1
Benzo[k]fluoranthene	0.237		0.050	0.010	ug/L		06/11/25 07:51	06/11/25 20:55	1
Chrysene	0.175		0.050	0.025	ug/L		06/11/25 07:51	06/11/25 20:55	1
Dibenz(a,h)anthracene	0.326		0.050	0.020	ug/L		06/11/25 07:51	06/11/25 20:55	1
Fluoranthene	<0.023		0.050	0.023	ug/L		06/11/25 07:51	06/11/25 20:55	1
Fluorene	<0.010		0.050	0.010	ug/L		06/11/25 07:51	06/11/25 20:55	1
Indeno[1,2,3-cd]pyrene	0.237		0.050	0.020	ug/L		06/11/25 07:51	06/11/25 20:55	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

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

Lab Sample ID: MB 410-655903/1-A

Matrix: Water

Analysis Batch: 656273

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 655903

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<0.068		0.070	0.068	ug/L		06/11/25 07:51	06/11/25 20:55	1
Phenanthrene	<0.030		0.070	0.030	ug/L		06/11/25 07:51	06/11/25 20:55	1
Pyrene	<0.021		0.050	0.021	ug/L		06/11/25 07:51	06/11/25 20:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	80		10 - 121	06/11/25 07:51	06/11/25 20:55	1
1-Methylnaphthalene-d10 (Surr)	102		30 - 127	06/11/25 07:51	06/11/25 20:55	1
Fluoranthene-d10 (Surr)	85		34 - 130	06/11/25 07:51	06/11/25 20:55	1

Lab Sample ID: LCS 410-655903/2-A

Matrix: Water

Analysis Batch: 656273

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 655903

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.00	0.814		ug/L		81	33 - 122
Acenaphthylene	1.00	0.906		ug/L		91	35 - 123
Anthracene	1.00	0.870		ug/L		87	40 - 127
Benzo[a]anthracene	1.00	0.843		ug/L		84	34 - 128
Benzo[a]pyrene	1.00	0.940		ug/L		94	38 - 134
Benzo[b]fluoranthene	1.00	0.837		ug/L		84	35 - 131
Benzo[g,h,i]perylene	1.00	0.947		ug/L		95	31 - 139
Benzo[k]fluoranthene	1.00	1.01		ug/L		101	42 - 146
Chrysene	1.00	0.848		ug/L		85	34 - 134
Dibenz(a,h)anthracene	1.00	0.904		ug/L		90	29 - 136
Fluoranthene	1.00	0.838		ug/L		84	36 - 129
Fluorene	1.00	0.865		ug/L		86	35 - 124
Indeno[1,2,3-cd]pyrene	1.00	0.930		ug/L		93	28 - 137
Naphthalene	1.00	0.796		ug/L		80	26 - 120
Phenanthrene	1.00	0.851		ug/L		85	37 - 125
Pyrene	1.00	0.842		ug/L		84	34 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Benzo(a)pyrene-d12 (Surr)	82		10 - 121
1-Methylnaphthalene-d10 (Surr)	92		30 - 127
Fluoranthene-d10 (Surr)	85		34 - 130

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 410-653935/5

Matrix: Water

Analysis Batch: 653935

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			06/06/25 11:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid) (1C)	95		63 - 135		06/06/25 11:33	1

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QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: LCS 410-653935/6

Matrix: Water

Analysis Batch: 653935

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline (Unleaded) (1C)			1100	1000		ug/L		91	66 - 120		
Surrogate	LCS %Recovery	LCS Qualifier	Limits								
a,a,a-Trifluorotoluene (fid) (1C)	86		63 - 135								

Lab Sample ID: LCSD 410-653935/7

Matrix: Water

Analysis Batch: 653935

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline (Unleaded) (1C)			1100	1000		ug/L		91	66 - 120	0	30

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-653820/1-A

Matrix: Water

Analysis Batch: 654000

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 653820

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ethylene Dibromide (1C)	<0.010		0.020	0.010	ug/L		06/06/25 07:01	06/06/25 13:26	1
Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
1,1,2,2-Tetrachloroethane (Surr) (1C)	119		46 - 136	06/06/25 07:01	06/06/25 13:26	1			
1,1,2,2-Tetrachloroethane (Surr) (2C)	119		46 - 136	06/06/25 07:01	06/06/25 13:26	1			

Lab Sample ID: LCS 410-653820/2-A

Matrix: Water

Analysis Batch: 654000

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 653820

				Spike	LCS	LCS				
Analyte				Added	Result	Qualifier	Unit	D	%Rec	%Rec Limits
Ethylene Dibromide (1C)				0.129	0.153		ug/L		119	60 - 140
Surrogate	LCS	LCS								
	%Recovery	Qualifier		Limits						
1,1,2,2-Tetrachloroethane (Surr) (1C)	116			46 - 136						
1,1,2,2-Tetrachloroethane (Surr) (2C)	116			46 - 136						

Lab Sample ID: LCSD 410-653820/3-A

Matrix: Water

Analysis Batch: 654000

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 653820

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.129	0.154		ug/L		119	60 - 140	0	20

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCSD 410-653820/3-A

Matrix: Water

Analysis Batch: 654000

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 653820

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,1,2,2-Tetrachloroethane (Surr) (1C)	109		46 - 136
1,1,2,2-Tetrachloroethane (Surr) (2C)	111		46 - 136

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 410-656218/1-A

Matrix: Water

Analysis Batch: 656613

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 656218

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	<45		100	45	ug/L		06/11/25 15:14	06/12/25 11:55	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o- terphenyl (Surr)	81		32 - 125				06/11/25 15:14	06/12/25 11:55	1

Lab Sample ID: LCS 410-656218/2-A

Matrix: Water

Analysis Batch: 656613

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 656218

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
DRO (C10-C28)	603	292		ug/L		48	20 - 115
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
o- terphenyl (Surr)	28	S1-	32 - 125				

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 410-655271/1-A

Matrix: Water

Analysis Batch: 655955

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 655271

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	<0.0080		0.010	0.0080	ug/L		06/10/25 09:00	06/11/25 10:26	1
PCB-1221 (1C)	<0.0080		0.010	0.0080	ug/L		06/10/25 09:00	06/11/25 10:26	1
PCB-1232 (1C)	<0.0080		0.010	0.0080	ug/L		06/10/25 09:00	06/11/25 10:26	1
PCB-1242 (1C)	<0.0080		0.010	0.0080	ug/L		06/10/25 09:00	06/11/25 10:26	1
PCB-1248 (1C)	<0.0080		0.010	0.0080	ug/L		06/10/25 09:00	06/11/25 10:26	1
PCB-1254 (1C)	<0.0050		0.010	0.0050	ug/L		06/10/25 09:00	06/11/25 10:26	1
PCB-1260 (1C)	<0.0050		0.010	0.0050	ug/L		06/10/25 09:00	06/11/25 10:26	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	120		46 - 161				06/10/25 09:00	06/11/25 10:26	1
DCB Decachlorobiphenyl (Surr) (2C)	109		46 - 161				06/10/25 09:00	06/11/25 10:26	1
Tetrachloro-m-xylene (1C)	78		41 - 146				06/10/25 09:00	06/11/25 10:26	1
Tetrachloro-m-xylene (2C)	72		41 - 146				06/10/25 09:00	06/11/25 10:26	1

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: LCS 410-655271/2-A

Matrix: Water

Analysis Batch: 655955

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 655271

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016 (1C)	0.500	0.460		ug/L		92	60 - 117
PCB-1260 (1C)	0.500	0.543		ug/L		109	81 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr) (1C)	124		46 - 161
DCB Decachlorobiphenyl (Surr) (2C)	113		46 - 161
Tetrachloro-m-xylene (1C)	78		41 - 146
Tetrachloro-m-xylene (2C)	74		41 - 146

Lab Sample ID: LCSD 410-655271/3-A

Matrix: Water

Analysis Batch: 655955

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 655271

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016 (1C)	0.500	0.431		ug/L		86	60 - 117	6	30
PCB-1260 (1C)	0.500	0.539		ug/L		108	81 - 130	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr) (1C)	131		46 - 161
DCB Decachlorobiphenyl (Surr) (2C)	117		46 - 161
Tetrachloro-m-xylene (1C)	75		41 - 146
Tetrachloro-m-xylene (2C)	68		41 - 146

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-654753/5

Matrix: Water

Analysis Batch: 654753

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.20	0.10	mg/L			06/07/25 16:02	1

Lab Sample ID: LCS 410-654753/3

Matrix: Water

Analysis Batch: 654753

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.750	0.796		mg/L		106	90 - 110

Lab Sample ID: LCSD 410-654753/4

Matrix: Water

Analysis Batch: 654753

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
Fluoride	0.750	0.787		mg/L		105	90 - 110	1	20

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 410-225566-2 MS

Matrix: Water

Analysis Batch: 654753

Client Sample ID: QM-R-266323-060425

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	4.0		5.00	9.29		mg/L		106	90 - 110

Lab Sample ID: 410-225566-2 DU

Matrix: Water

Analysis Batch: 654753

Client Sample ID: QM-R-266323-060425

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	4.0		3.98		mg/L		0	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-653749/1-A

Matrix: Water

Analysis Batch: 654351

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 653749

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<12		25	12	ug/L		06/06/25 06:55	06/06/25 16:30	1
Antimony	<0.20		1.0	0.20	ug/L		06/06/25 06:55	06/06/25 16:30	1
Arsenic	<0.68		2.0	0.68	ug/L		06/06/25 06:55	06/06/25 16:30	1
Barium	<0.75		2.0	0.75	ug/L		06/06/25 06:55	06/06/25 16:30	1
Beryllium	<0.12		0.50	0.12	ug/L		06/06/25 06:55	06/06/25 16:30	1
Cadmium	<0.15		0.50	0.15	ug/L		06/06/25 06:55	06/06/25 16:30	1
Calcium	<50		120	50	ug/L		06/06/25 06:55	06/06/25 16:30	1
Chromium	<0.55		2.0	0.55	ug/L		06/06/25 06:55	06/06/25 16:30	1
Cobalt	<0.16		0.50	0.16	ug/L		06/06/25 06:55	06/06/25 16:30	1
Copper	<0.85		1.0	0.85	ug/L		06/06/25 06:55	06/06/25 16:30	1
Iron	<20		50	20	ug/L		06/06/25 06:55	06/06/25 16:30	1
Lead	<0.12		0.50	0.12	ug/L		06/06/25 06:55	06/06/25 16:30	1
Magnesium	<16		50	16	ug/L		06/06/25 06:55	06/06/25 16:30	1
Manganese	<0.95		2.0	0.95	ug/L		06/06/25 06:55	06/06/25 16:30	1
Nickel	<0.40		1.0	0.40	ug/L		06/06/25 06:55	06/06/25 16:30	1
Potassium	<65		200	65	ug/L		06/06/25 06:55	06/06/25 16:30	1
Selenium	<0.28		1.0	0.28	ug/L		06/06/25 06:55	06/06/25 16:30	1
Silver	<0.10		0.50	0.10	ug/L		06/06/25 06:55	06/06/25 16:30	1
Sodium	<90		200	90	ug/L		06/06/25 06:55	06/06/25 16:30	1
Thallium	<0.13		0.50	0.13	ug/L		06/06/25 06:55	06/06/25 16:30	1
Zinc	<4.0		10	4.0	ug/L		06/06/25 06:55	06/06/25 16:30	1
Vanadium	<0.79		4.0	0.79	ug/L		06/06/25 06:55	06/06/25 16:30	1

Lab Sample ID: LCS 410-653749/2-A

Matrix: Water

Analysis Batch: 654351

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 653749

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5000	4740		ug/L		95	90 - 110
Antimony	100	100		ug/L		100	90 - 115
Arsenic	500	488		ug/L		98	90 - 109
Barium	500	508		ug/L		102	90 - 113
Beryllium	50.0	47.2		ug/L		94	82 - 120

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-653749/2-A

Matrix: Water

Analysis Batch: 654351

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 653749

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	50.0	50.9		ug/L		102	90 - 112
Calcium	5000	4930		ug/L		99	90 - 112
Chromium	500	488		ug/L		98	90 - 110
Cobalt	500	492		ug/L		98	90 - 110
Copper	500	494		ug/L		99	90 - 110
Iron	5000	4830		ug/L		97	90 - 111
Lead	50.0	49.4		ug/L		99	90 - 110
Magnesium	5000	4830		ug/L		97	90 - 110
Manganese	500	479		ug/L		96	90 - 111
Nickel	500	489		ug/L		98	90 - 109
Potassium	5000	4950		ug/L		99	90 - 110
Selenium	100	99.2		ug/L		99	90 - 110
Silver	50.0	52.6		ug/L		105	90 - 112
Sodium	5000	4910		ug/L		98	89 - 114
Thallium	100	98.0		ug/L		98	90 - 110
Zinc	500	493		ug/L		99	90 - 112
Vanadium	500	484		ug/L		97	90 - 109

Lab Sample ID: MB 410-654357/1-A

Matrix: Water

Analysis Batch: 655203

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 654357

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<12		25	12	ug/L		06/06/25 23:10	06/09/25 19:34	1
Antimony	<0.20		1.0	0.20	ug/L		06/06/25 23:10	06/09/25 19:34	1
Arsenic	<0.68		2.0	0.68	ug/L		06/06/25 23:10	06/09/25 19:34	1
Barium	<0.75		2.0	0.75	ug/L		06/06/25 23:10	06/09/25 19:34	1
Cadmium	<0.15		0.50	0.15	ug/L		06/06/25 23:10	06/09/25 19:34	1
Calcium	<50		120	50	ug/L		06/06/25 23:10	06/09/25 19:34	1
Chromium	<0.55		2.0	0.55	ug/L		06/06/25 23:10	06/09/25 19:34	1
Cobalt	<0.16		0.50	0.16	ug/L		06/06/25 23:10	06/09/25 19:34	1
Copper	<0.85		1.0	0.85	ug/L		06/06/25 23:10	06/09/25 19:34	1
Iron	<20		50	20	ug/L		06/06/25 23:10	06/09/25 19:34	1
Lead	<0.12		0.50	0.12	ug/L		06/06/25 23:10	06/09/25 19:34	1
Magnesium	<16		50	16	ug/L		06/06/25 23:10	06/09/25 19:34	1
Manganese	<0.95		2.0	0.95	ug/L		06/06/25 23:10	06/09/25 19:34	1
Nickel	<0.40		1.0	0.40	ug/L		06/06/25 23:10	06/09/25 19:34	1
Potassium	<65		200	65	ug/L		06/06/25 23:10	06/09/25 19:34	1
Selenium	<0.28		1.0	0.28	ug/L		06/06/25 23:10	06/09/25 19:34	1
Silver	<0.10		0.50	0.10	ug/L		06/06/25 23:10	06/09/25 19:34	1
Sodium	<90		200	90	ug/L		06/06/25 23:10	06/09/25 19:34	1
Thallium	<0.13		0.50	0.13	ug/L		06/06/25 23:10	06/09/25 19:34	1
Zinc	<4.0		10	4.0	ug/L		06/06/25 23:10	06/09/25 19:34	1
Vanadium	<0.79		4.0	0.79	ug/L		06/06/25 23:10	06/09/25 19:34	1

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 410-654357/1-A
Matrix: Water
Analysis Batch: 655781

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 654357

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.12		0.50	0.12	ug/L		06/06/25 23:10	06/10/25 16:16	1

Lab Sample ID: LCS 410-654357/2-A
Matrix: Water
Analysis Batch: 655203

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 654357

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5000	5280		ug/L		106	90 - 110
Antimony	100	108		ug/L		108	90 - 115
Arsenic	500	539		ug/L		108	90 - 109
Barium	500	544		ug/L		109	90 - 113
Cadmium	50.0	52.7		ug/L		105	90 - 112
Calcium	5000	5400		ug/L		108	90 - 112
Chromium	500	532		ug/L		106	90 - 110
Cobalt	500	538		ug/L		108	90 - 110
Copper	500	540		ug/L		108	90 - 110
Iron	5000	5330		ug/L		107	90 - 111
Lead	50.0	54.7		ug/L		109	90 - 110
Magnesium	5000	5430		ug/L		109	90 - 110
Manganese	500	531		ug/L		106	90 - 111
Nickel	500	540		ug/L		108	90 - 109
Potassium	5000	5340		ug/L		107	90 - 110
Selenium	100	107		ug/L		107	90 - 110
Silver	50.0	54.7		ug/L		109	90 - 112
Sodium	5000	5490		ug/L		110	89 - 114
Thallium	100	110		ug/L		110	90 - 110
Zinc	500	543		ug/L		109	90 - 112
Vanadium	500	531		ug/L		106	90 - 109

Lab Sample ID: LCS 410-654357/2-A
Matrix: Water
Analysis Batch: 655781

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 654357

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	50.0	47.5		ug/L		95	82 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-655357/1-A
Matrix: Water
Analysis Batch: 656383

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 655357

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.087		0.20	0.087	ug/L		06/10/25 23:55	06/11/25 15:14	1

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 410-655357/2-A
Matrix: Water
Analysis Batch: 656383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 655357

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	1.13		ug/L		113	80 - 118

Method: 9040C - pH

Lab Sample ID: LCS 410-654276/1
Matrix: Water
Analysis Batch: 654276

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		S.U.		99	95 - 105

Method: OIA-1677 - Cyanide, Free (Flow Injection)

Lab Sample ID: MB 410-653853/17
Matrix: Water
Analysis Batch: 653853

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	<0.0050		0.0060	0.0050	mg/L			06/05/25 14:13	1

Lab Sample ID: MB 410-653853/33
Matrix: Water
Analysis Batch: 653853

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	<0.0050		0.0060	0.0050	mg/L			06/05/25 14:53	1

Lab Sample ID: LCS 410-653853/16
Matrix: Water
Analysis Batch: 653853

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Free	0.0500	0.0492		mg/L		98	82 - 132

Lab Sample ID: LCS 410-653853/32
Matrix: Water
Analysis Batch: 653853

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Free	0.0500	0.0538		mg/L		108	82 - 132

Lab Sample ID: 410-225566-3 MS
Matrix: Water
Analysis Batch: 653853

Client Sample ID: QM-R-253093-060425
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Free	<0.0050		0.0500	0.0550		mg/L		110	82 - 130

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

Method: OIA-1677 - Cyanide, Free (Flow Injection) (Continued)

Lab Sample ID: 410-225566-3 MSD

Matrix: Water

Analysis Batch: 653853

Client Sample ID: QM-R-253093-060425

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Free	<0.0050		0.0500	0.0561		mg/L		112	82 - 130	2	11

Lab Sample ID: 410-225566-4 MS

Matrix: Water

Analysis Batch: 653853

Client Sample ID: QM-R-251059-060425

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Free	<0.0050		0.0500	0.0562		mg/L		112	82 - 130		

Lab Sample ID: 410-225566-4 MSD

Matrix: Water

Analysis Batch: 653853

Client Sample ID: QM-R-251059-060425

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Free	<0.0050		0.0500	0.0560		mg/L		112	82 - 130	0	11

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

GC/MS VOA

Analysis Batch: 654607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225566-1	TB-060425	Total/NA	Water	8260D	
410-225566-2	QM-R-266323-060425	Total/NA	Water	8260D	
410-225566-3	QM-R-253093-060425	Total/NA	Water	8260D	
410-225566-4	QM-R-251059-060425	Total/NA	Water	8260D	
MB 410-654607/7	Method Blank	Total/NA	Water	8260D	
LCS 410-654607/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 410-654607/5	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 655903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225566-2	QM-R-266323-060425	Total/NA	Water	3510C	
410-225566-3	QM-R-253093-060425	Total/NA	Water	3510C	
410-225566-4	QM-R-251059-060425	Total/NA	Water	3510C	
MB 410-655903/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-655903/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 656273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225566-2	QM-R-266323-060425	Total/NA	Water	8270D SIM	655903
410-225566-3	QM-R-253093-060425	Total/NA	Water	8270D SIM	655903
410-225566-4	QM-R-251059-060425	Total/NA	Water	8270D SIM	655903
MB 410-655903/1-A	Method Blank	Total/NA	Water	8270D SIM	655903
LCS 410-655903/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	655903

GC VOA

Analysis Batch: 653935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225566-1	TB-060425	Total/NA	Water	8015D	
410-225566-2	QM-R-266323-060425	Total/NA	Water	8015D	
410-225566-3	QM-R-253093-060425	Total/NA	Water	8015D	
410-225566-4	QM-R-251059-060425	Total/NA	Water	8015D	
MB 410-653935/5	Method Blank	Total/NA	Water	8015D	
LCS 410-653935/6	Lab Control Sample	Total/NA	Water	8015D	
LCSD 410-653935/7	Lab Control Sample Dup	Total/NA	Water	8015D	

GC Semi VOA

Prep Batch: 653820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225566-1	TB-060425	Total/NA	Water	8011	
410-225566-2	QM-R-266323-060425	Total/NA	Water	8011	
410-225566-3	QM-R-253093-060425	Total/NA	Water	8011	
410-225566-4	QM-R-251059-060425	Total/NA	Water	8011	
MB 410-653820/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-653820/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-653820/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

GC Semi VOA

Analysis Batch: 654000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225566-1	TB-060425	Total/NA	Water	8011	653820
410-225566-2	QM-R-266323-060425	Total/NA	Water	8011	653820
410-225566-3	QM-R-253093-060425	Total/NA	Water	8011	653820
410-225566-4	QM-R-251059-060425	Total/NA	Water	8011	653820
MB 410-653820/1-A	Method Blank	Total/NA	Water	8011	653820
LCS 410-653820/2-A	Lab Control Sample	Total/NA	Water	8011	653820
LCSD 410-653820/3-A	Lab Control Sample Dup	Total/NA	Water	8011	653820

Prep Batch: 655271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225566-2	QM-R-266323-060425	Total/NA	Water	3510C	
410-225566-3	QM-R-253093-060425	Total/NA	Water	3510C	
410-225566-4	QM-R-251059-060425	Total/NA	Water	3510C	
MB 410-655271/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-655271/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-655271/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 655955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225566-2	QM-R-266323-060425	Total/NA	Water	8082A	655271
410-225566-3	QM-R-253093-060425	Total/NA	Water	8082A	655271
410-225566-4	QM-R-251059-060425	Total/NA	Water	8082A	655271
MB 410-655271/1-A	Method Blank	Total/NA	Water	8082A	655271
LCS 410-655271/2-A	Lab Control Sample	Total/NA	Water	8082A	655271
LCSD 410-655271/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	655271

Prep Batch: 656218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225566-2	QM-R-266323-060425	Total/NA	Water	3510C	
410-225566-3	QM-R-253093-060425	Total/NA	Water	3510C	
410-225566-4	QM-R-251059-060425	Total/NA	Water	3510C	
MB 410-656218/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-656218/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 656490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225566-2	QM-R-266323-060425	Total/NA	Water	PCB	
410-225566-3	QM-R-253093-060425	Total/NA	Water	PCB	
410-225566-4	QM-R-251059-060425	Total/NA	Water	PCB	

Analysis Batch: 656613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225566-2	QM-R-266323-060425	Total/NA	Water	8015D	656218
410-225566-3	QM-R-253093-060425	Total/NA	Water	8015D	656218
410-225566-4	QM-R-251059-060425	Total/NA	Water	8015D	656218
MB 410-656218/1-A	Method Blank	Total/NA	Water	8015D	656218
LCS 410-656218/2-A	Lab Control Sample	Total/NA	Water	8015D	656218

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

HPLC/IC

Analysis Batch: 654753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225566-2	QM-R-266323-060425	Total/NA	Water	EPA 300.0 R2.1	
410-225566-3	QM-R-253093-060425	Total/NA	Water	EPA 300.0 R2.1	
410-225566-4	QM-R-251059-060425	Total/NA	Water	EPA 300.0 R2.1	
MB 410-654753/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-654753/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-654753/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	
410-225566-2 MS	QM-R-266323-060425	Total/NA	Water	EPA 300.0 R2.1	
410-225566-2 DU	QM-R-266323-060425	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 653749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225566-2	QM-R-266323-060425	Total Recoverable	Water	3005A	
MB 410-653749/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-653749/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 654351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225566-2	QM-R-266323-060425	Total Recoverable	Water	6020B	653749
MB 410-653749/1-A	Method Blank	Total Recoverable	Water	6020B	653749
LCS 410-653749/2-A	Lab Control Sample	Total Recoverable	Water	6020B	653749

Prep Batch: 654357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225566-3	QM-R-253093-060425	Total Recoverable	Water	3005A	
410-225566-4	QM-R-251059-060425	Total Recoverable	Water	3005A	
MB 410-654357/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-654357/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 655203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225566-3	QM-R-253093-060425	Total Recoverable	Water	6020B	654357
410-225566-4	QM-R-251059-060425	Total Recoverable	Water	6020B	654357
MB 410-654357/1-A	Method Blank	Total Recoverable	Water	6020B	654357
LCS 410-654357/2-A	Lab Control Sample	Total Recoverable	Water	6020B	654357

Prep Batch: 655357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225566-2	QM-R-266323-060425	Total/NA	Water	7470A	
410-225566-3	QM-R-253093-060425	Total/NA	Water	7470A	
410-225566-4	QM-R-251059-060425	Total/NA	Water	7470A	
MB 410-655357/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-655357/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 655781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225566-3	QM-R-253093-060425	Total Recoverable	Water	6020B	654357
410-225566-4	QM-R-251059-060425	Total Recoverable	Water	6020B	654357
MB 410-654357/1-A	Method Blank	Total Recoverable	Water	6020B	654357
LCS 410-654357/2-A	Lab Control Sample	Total Recoverable	Water	6020B	654357

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

Metals

Analysis Batch: 656171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225566-2	QM-R-266323-060425	Total Recoverable	Water	6020B	653749

Analysis Batch: 656383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225566-2	QM-R-266323-060425	Total/NA	Water	7470A	655357
410-225566-3	QM-R-253093-060425	Total/NA	Water	7470A	655357
410-225566-4	QM-R-251059-060425	Total/NA	Water	7470A	655357
MB 410-655357/1-A	Method Blank	Total/NA	Water	7470A	655357
LCS 410-655357/2-A	Lab Control Sample	Total/NA	Water	7470A	655357

General Chemistry

Analysis Batch: 653853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225566-2	QM-R-266323-060425	Total/NA	Water	OIA-1677	
410-225566-3	QM-R-253093-060425	Total/NA	Water	OIA-1677	
410-225566-4	QM-R-251059-060425	Total/NA	Water	OIA-1677	
MB 410-653853/17	Method Blank	Total/NA	Water	OIA-1677	
MB 410-653853/33	Method Blank	Total/NA	Water	OIA-1677	
LCS 410-653853/16	Lab Control Sample	Total/NA	Water	OIA-1677	
LCS 410-653853/32	Lab Control Sample	Total/NA	Water	OIA-1677	
410-225566-3 MS	QM-R-253093-060425	Total/NA	Water	OIA-1677	
410-225566-3 MSD	QM-R-253093-060425	Total/NA	Water	OIA-1677	
410-225566-4 MS	QM-R-251059-060425	Total/NA	Water	OIA-1677	
410-225566-4 MSD	QM-R-251059-060425	Total/NA	Water	OIA-1677	

Analysis Batch: 654276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-225566-2	QM-R-266323-060425	Total/NA	Water	9040C	
410-225566-3	QM-R-253093-060425	Total/NA	Water	9040C	
410-225566-4	QM-R-251059-060425	Total/NA	Water	9040C	
LCS 410-654276/1	Lab Control Sample	Total/NA	Water	9040C	

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

Client Sample ID: TB-060425

Lab Sample ID: 410-225566-1

Date Collected: 06/04/25 07:00

Matrix: Water

Date Received: 06/04/25 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	654607	JS6E	ELLE	06/08/25 21:49
Total/NA	Analysis	8015D		1	653935	P5AM	ELLE	06/06/25 13:15
Total/NA	Prep	8011			653820	K2IL	ELLE	06/06/25 07:01
Total/NA	Analysis	8011		1	654000	URS0	ELLE	06/06/25 15:08

Client Sample ID: QM-R-266323-060425

Lab Sample ID: 410-225566-2

Date Collected: 06/04/25 10:15

Matrix: Water

Date Received: 06/04/25 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	654607	JS6E	ELLE	06/09/25 02:18
Total/NA	Prep	3510C			655903	XU9L	ELLE	06/11/25 07:51
Total/NA	Analysis	8270D SIM		1	656273	UJM0	ELLE	06/11/25 23:23
Total/NA	Analysis	8015D		1	653935	P5AM	ELLE	06/06/25 15:48
Total/NA	Prep	8011			653820	K2IL	ELLE	06/06/25 07:01
Total/NA	Analysis	8011		1	654000	URS0	ELLE	06/06/25 15:25
Total/NA	Prep	3510C			656218	T9CY	ELLE	06/11/25 15:14
Total/NA	Analysis	8015D		1	656613	KP5X	ELLE	06/12/25 13:03
Total/NA	Prep	3510C			655271	ZFS6	ELLE	06/10/25 09:00
Total/NA	Analysis	8082A		1	655955	M6UH	ELLE	06/11/25 12:18
Total/NA	Analysis	PCB		1	656490	URS0	ELLE	06/11/25 12:18
Total/NA	Analysis	EPA 300.0 R2.1		10	654753	PYC6	ELLE	06/07/25 20:06
Total Recoverable	Prep	3005A			653749	UJL8	ELLE	06/06/25 06:55
Total Recoverable	Analysis	6020B		1	654351	I9IN	ELLE	06/06/25 18:27
Total Recoverable	Prep	3005A			653749	UJL8	ELLE	06/06/25 06:55
Total Recoverable	Analysis	6020B		1	656171	SAM2	ELLE	06/11/25 10:36
Total/NA	Prep	7470A			655357	UAMX	ELLE	06/10/25 23:55
Total/NA	Analysis	7470A		1	656383	IJ3I	ELLE	06/11/25 15:35
Total/NA	Analysis	9040C		1	654276	DI9Q	ELLE	06/06/25 18:32
Total/NA	Analysis	OIA-1677		1	653853	UJE2	ELLE	06/05/25 14:48

Client Sample ID: QM-R-253093-060425

Lab Sample ID: 410-225566-3

Date Collected: 06/04/25 10:45

Matrix: Water

Date Received: 06/04/25 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	654607	JS6E	ELLE	06/09/25 02:40
Total/NA	Prep	3510C			655903	XU9L	ELLE	06/11/25 07:51
Total/NA	Analysis	8270D SIM		1	656273	UJM0	ELLE	06/11/25 23:44
Total/NA	Analysis	8015D		1	653935	P5AM	ELLE	06/06/25 16:13
Total/NA	Prep	8011			653820	K2IL	ELLE	06/06/25 07:01
Total/NA	Analysis	8011		1	654000	URS0	ELLE	06/06/25 16:16
Total/NA	Prep	3510C			656218	T9CY	ELLE	06/11/25 15:14
Total/NA	Analysis	8015D		1	656613	KP5X	ELLE	06/12/25 13:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

Client Sample ID: QM-R-253093-060425

Lab Sample ID: 410-225566-3

Date Collected: 06/04/25 10:45

Matrix: Water

Date Received: 06/04/25 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			655271	ZFS6	ELLE	06/10/25 09:00
Total/NA	Analysis	8082A		1	655955	M6UH	ELLE	06/11/25 12:31
Total/NA	Analysis	PCB		1	656490	URS0	ELLE	06/11/25 12:31
Total/NA	Analysis	EPA 300.0 R2.1		20	654753	PYC6	ELLE	06/07/25 19:11
Total Recoverable	Prep	3005A			654357	UAMX	ELLE	06/06/25 23:10
Total Recoverable	Analysis	6020B		1	655781	I9IN	ELLE	06/10/25 17:05
Total Recoverable	Prep	3005A			654357	UAMX	ELLE	06/06/25 23:10
Total Recoverable	Analysis	6020B		1	655203	I9IN	ELLE	06/09/25 20:19
Total/NA	Prep	7470A			655357	UAMX	ELLE	06/10/25 23:55
Total/NA	Analysis	7470A		1	656383	IJ3I	ELLE	06/11/25 15:33
Total/NA	Analysis	9040C		1	654276	DI9Q	ELLE	06/06/25 18:32
Total/NA	Analysis	OIA-1677		1	653853	UJE2	ELLE	06/05/25 14:16

Client Sample ID: QM-R-251059-060425

Lab Sample ID: 410-225566-4

Date Collected: 06/04/25 11:15

Matrix: Water

Date Received: 06/04/25 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	654607	JS6E	ELLE	06/09/25 03:02
Total/NA	Prep	3510C			655903	XU9L	ELLE	06/11/25 07:51
Total/NA	Analysis	8270D SIM		1	656273	UJM0	ELLE	06/12/25 00:06
Total/NA	Analysis	8015D		1	653935	P5AM	ELLE	06/06/25 16:38
Total/NA	Prep	8011			653820	K2IL	ELLE	06/06/25 07:01
Total/NA	Analysis	8011		1	654000	URS0	ELLE	06/06/25 16:33
Total/NA	Prep	3510C			656218	T9CY	ELLE	06/11/25 15:14
Total/NA	Analysis	8015D		1	656613	KP5X	ELLE	06/12/25 13:49
Total/NA	Prep	3510C			655271	ZFS6	ELLE	06/10/25 09:00
Total/NA	Analysis	8082A		1	655955	M6UH	ELLE	06/11/25 12:44
Total/NA	Analysis	PCB		1	656490	URS0	ELLE	06/11/25 12:44
Total/NA	Analysis	EPA 300.0 R2.1		1	654753	PYC6	ELLE	06/07/25 21:09
Total Recoverable	Prep	3005A			654357	UAMX	ELLE	06/06/25 23:10
Total Recoverable	Analysis	6020B		1	655781	I9IN	ELLE	06/10/25 17:03
Total Recoverable	Prep	3005A			654357	UAMX	ELLE	06/06/25 23:10
Total Recoverable	Analysis	6020B		1	655203	I9IN	ELLE	06/09/25 20:17
Total/NA	Prep	7470A			655357	UAMX	ELLE	06/10/25 23:55
Total/NA	Analysis	7470A		1	656383	IJ3I	ELLE	06/11/25 15:32
Total/NA	Analysis	9040C		1	654276	DI9Q	ELLE	06/06/25 18:32
Total/NA	Analysis	OIA-1677		1	653853	UJE2	ELLE	06/05/25 14:56

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Lancaster Laboratories Environment Testing, LLC

Accreditation/Certification Summary

Client: Tetra Tech Inc

Job ID: 410-225566-1

Project/Site: Soil and Water Analysis - QL Frederick

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-26
A2LA	Dept. of Energy	0001.01	11-30-26
A2LA	ISO/IEC 17025	0001.01	11-30-26
Alabama	State	43200	01-31-26
Alaska	State	PA00009	06-30-25
Alaska (UST)	State	17-027	12-30-26
Arizona	State	AZ0780	03-12-26
Arkansas DEQ	State	88-00660	08-09-25
California	State	2792	01-31-26
Colorado	State	PA00009	06-30-25
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-26
Delaware (DW)	State	N/A	01-31-26
Florida	NELAP	E87997	06-30-25
Georgia (DW)	State	C048	01-31-26
Illinois	NELAP	200027	01-31-26
Iowa	State	361	03-01-26
Kansas	NELAP	E-10151	10-31-25
Kentucky (DW)	State	KY90088	12-31-25
Kentucky (UST)	State	0001.01	11-30-26
Kentucky (WW)	State	KY90088	12-31-25
Louisiana (All)	NELAP	02055	06-30-25
Maine	State	2019012	03-12-27
Maryland	State	100	06-30-25
Massachusetts	State	M-PA009	06-30-26
Michigan	State	9930	01-31-26
Minnesota	NELAP	042-999-487	12-31-25
Mississippi	State	023	01-31-26
Missouri	State	450	01-31-28
Montana (DW)	State	0098	01-01-26
Nebraska	State	NE-OS-32-17	01-31-26
New Hampshire	NELAP	2730	01-10-26
New Jersey	NELAP	PA011	06-30-25
New York	NELAP	10670	04-01-26
North Carolina (DW)	State	42705	07-31-25
North Carolina (WW/SW)	State	521	12-31-25
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-25
Oregon	NELAP	PA200001	09-11-25
Pennsylvania	NELAP	36-00037	01-31-26
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-29
Rhode Island	State	LAO00338	12-30-25
South Carolina	State	89002	01-31-26
Tennessee	State	02838	01-31-26
Texas	NELAP	T104704194-23-46	08-31-25
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-25
Virginia	NELAP	460182	06-14-26
Washington	State	C457	04-11-26

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

Eurofins Lancaster Laboratories Environment Testing, LLC

Accreditation/Certification Summary

Client: Tetra Tech Inc

Job ID: 410-225566-1

Project/Site: Soil and Water Analysis - QL Frederick

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date
West Virginia (DW)	State	9906 C	03-31-26
West Virginia DEP	State	055	07-31-25
Wyoming	State	8TMS-L	01-31-26
Wyoming (UST)	A2LA	0001.01	11-30-26

Method Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-225566-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	ELLE
8015D	Gasoline Range Organics (GRO) (GC)	SW846	ELLE
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
8015D	Diesel Range Organics (DRO) (GC)	SW846	ELLE
8082A	Polychlorinated Biphenyls (PCBs) (GC)	SW846	ELLE
PCB	Total PCB Calculation	TAL SOP	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6020B	Metals (ICP/MS)	SW846	ELLE
7470A	Mercury (CVAA)	SW846	ELLE
9040C	pH	SW846	ELLE
OIA-1677	Cyanide, Free (Flow Injection)	OI CORP	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
7470A	Preparation, Mercury	SW846	ELLE
8011	Microextraction	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

OI CORP = OI Corporation Instrument Manual.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Tetra Tech Inc

Job ID: 410-225566-1

Project/Site: Soil and Water Analysis - QL Frederick

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-225566-1	TB-060425	Water	06/04/25 07:00	06/04/25 17:05
410-225566-2	QM-R-266323-060425	Water	06/04/25 10:15	06/04/25 17:05
410-225566-3	QM-R-253093-060425	Water	06/04/25 10:45	06/04/25 17:05
410-225566-4	QM-R-251059-060425	Water	06/04/25 11:15	06/04/25 17:05



Chain of Custody Record



Environment Testing

410-225566 Chain of Custody

[illegible]

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 410-225566-1

Login Number: 225566

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Fuehrer, Stephanie

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	



ANALYTICAL REPORT

PREPARED FOR

Attn: Josh Mullis
Tetra Tech Inc
20251 Century Blvd
Suite 200
Germantown, Maryland 20874

Generated 6/17/2025 4:18:20 PM

JOB DESCRIPTION

Soil and Water Analysis-QL Frederick

JOB NUMBER

410-226101-1

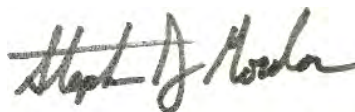
Eurofins Lancaster Laboratories Environment Testing, LLC

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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6/17/2025 4:18:20 PM

Authorized for release by
Stephen Gordon, Senior Project Manager
Stephen.Gordon@et.eurofinsus.com
(412)525-0071

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

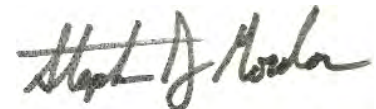


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Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis-QL Frederick

Job ID: 410-226101-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
cn	Refer to Case Narrative for further detail
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.

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 Inc
Project: Soil and Water Analysis-QL Frederick

Job ID: 410-226101-1

Job ID: 410-226101-1

Eurofins Lancaster Laboratories Environment

Job Narrative 410-226101-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 6/6/2025 5:55 PM. 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 time was 1.6°C.

GC/MS VOA

Method 8260D_LL: The continuing calibration verification (CCV) associated with batch 410-655367 recovered outside acceptance criteria, low biased, for Acetone, Bromomethane and Chloroethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260D_LL: The continuing calibration verification (CCV) associated with batch 410-655367 recovered above the upper control limit for Dibromochloromethane. Non-detections of the affected analytes are reported. Any detections are considered estimated.

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

GC/MS Semi VOA

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

Gasoline Range Organics

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

Diesel Range Organics

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

GC Semi VOA

Method 8011: Surrogate recovery for the following sample was outside the upper control limit: TB-060625 (410-226101-1). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

PCBs

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

HPLC/IC

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

Metals

Method 6020B - Total Recoverable: The continuing calibration verification (CCV) associated with batch 410-656822 recovered above the upper control limit for Arsenic. 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.

General Chemistry

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

Eurofins Lancaster Laboratories Environment Testing, LLC

Case Narrative

Client: Tetra Tech Inc
Project: Soil and Water Analysis-QL Frederick

Job ID: 410-226101-1

Job ID: 410-226101-1 (Continued)

Eurofins Lancaster Laboratories Environment

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Detection Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis-QL Frederick

Job ID: 410-226101-1

Client Sample ID: TB-060625

Lab Sample ID: 410-226101-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.15	J	1.0	0.10	ug/L	1		8260D	Total/NA

Client Sample ID: QM-R-SV36103L-060625

Lab Sample ID: 410-226101-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.32	J	0.50	0.10	ug/L	1		8260D	Total/NA
DRO (C10-C28)	120		110	48	ug/L	1		8015D	Total/NA
Fluoride	5.1		2.0	1.0	mg/L	10		EPA 300.0 R2.1	Total/NA
Aluminum	430		25	12	ug/L	1		6020B	Total Recoverable
Antimony	0.25	J	1.0	0.20	ug/L	1		6020B	Total Recoverable
Barium	36		2.0	0.75	ug/L	1		6020B	Total Recoverable
Calcium	87000		120	50	ug/L	1		6020B	Total Recoverable
Chromium	0.93	J	2.0	0.55	ug/L	1		6020B	Total Recoverable
Cobalt	0.46	J	0.50	0.16	ug/L	1		6020B	Total Recoverable
Copper	1.1		1.0	0.85	ug/L	1		6020B	Total Recoverable
Iron	360		50	20	ug/L	1		6020B	Total Recoverable
Lead	0.35	J	0.50	0.12	ug/L	1		6020B	Total Recoverable
Magnesium	16000		50	16	ug/L	1		6020B	Total Recoverable
Manganese	22		2.0	0.95	ug/L	1		6020B	Total Recoverable
Nickel	1.2		1.0	0.40	ug/L	1		6020B	Total Recoverable
Potassium	4500		200	65	ug/L	1		6020B	Total Recoverable
Selenium	0.88	J	1.0	0.28	ug/L	1		6020B	Total Recoverable
Sodium	56000		200	90	ug/L	1		6020B	Total Recoverable
Zinc	6.9	J	10	4.0	ug/L	1		6020B	Total Recoverable
pH	7.6	HF	0.01	0.01	S.U.	1		9040C	Total/NA
Temperature	19.3	HF	0.01	0.01	Degrees C	1		9040C	Total/NA
Corrosivity	No	HF	0.01	0.01	NONE	1		9040C	Total/NA

Client Sample ID: QM-R-255850-060625

Lab Sample ID: 410-226101-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.093	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.69		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.28	J	0.50	0.080	ug/L	1		8260D	Total/NA
Fluoride	2.9		0.20	0.10	mg/L	1		EPA 300.0 R2.1	Total/NA
Aluminum	130		25	12	ug/L	1		6020B	Total Recoverable
Barium	27		2.0	0.75	ug/L	1		6020B	Total Recoverable
Calcium	110000		120	50	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: Tetra Tech Inc

Job ID: 410-226101-1

Project/Site: Soil and Water Analysis-QL Frederick

Client Sample ID: QM-R-255850-060625 (Continued)

Lab Sample ID: 410-226101-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.49	J	0.50	0.16	ug/L	1		6020B	Total
									Recoverable
Iron	450		50	20	ug/L	1		6020B	Total
									Recoverable
Lead	0.28	J	0.50	0.12	ug/L	1		6020B	Total
									Recoverable
Magnesium	17000		50	16	ug/L	1		6020B	Total
									Recoverable
Manganese	150		2.0	0.95	ug/L	1		6020B	Total
									Recoverable
Nickel	1.6		1.0	0.40	ug/L	1		6020B	Total
									Recoverable
Potassium	2700		200	65	ug/L	1		6020B	Total
									Recoverable
Selenium	0.64	J	1.0	0.28	ug/L	1		6020B	Total
									Recoverable
Sodium	89000		200	90	ug/L	1		6020B	Total
									Recoverable
Zinc	240		10	4.0	ug/L	1		6020B	Total
									Recoverable
pH	7.6	HF	0.01	0.01	S.U.	1		9040C	Total/NA
Temperature	19.3	HF	0.01	0.01	Degrees C	1		9040C	Total/NA
Corrosivity	No	HF	0.01	0.01	NONE	1		9040C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis-QL Frederick

Job ID: 410-226101-1

Client Sample ID: TB-060625

Lab Sample ID: 410-226101-1

Date Collected: 06/06/25 07:00

Matrix: Water

Date Received: 06/06/25 17:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.080		0.50	0.080	ug/L			06/10/25 14:38	1
1,1,1,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			06/10/25 14:38	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			06/10/25 14:38	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			06/10/25 14:38	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			06/10/25 14:38	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			06/10/25 14:38	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			06/10/25 14:38	1
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			06/10/25 14:38	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/10/25 14:38	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			06/10/25 14:38	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			06/10/25 14:38	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/10/25 14:38	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/10/25 14:38	1
2-Butanone	<1.0		5.0	1.0	ug/L			06/10/25 14:38	1
2-Hexanone	<2.0		5.0	2.0	ug/L			06/10/25 14:38	1
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			06/10/25 14:38	1
Acetone	<1.5	cn	5.0	1.5	ug/L			06/10/25 14:38	1
Benzene	<0.10		0.50	0.10	ug/L			06/10/25 14:38	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			06/10/25 14:38	1
Bromoform	<0.30		1.0	0.30	ug/L			06/10/25 14:38	1
Bromomethane	<0.10	cn	0.50	0.10	ug/L			06/10/25 14:38	1
Carbon disulfide	0.15	J	1.0	0.10	ug/L			06/10/25 14:38	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			06/10/25 14:38	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			06/10/25 14:38	1
Chloroethane	<0.10	cn	0.50	0.10	ug/L			06/10/25 14:38	1
Chloroform	<0.090		0.50	0.090	ug/L			06/10/25 14:38	1
Chloromethane	<0.10		0.50	0.10	ug/L			06/10/25 14:38	1
cis-1,2-Dichloroethene	<0.080		0.50	0.080	ug/L			06/10/25 14:38	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			06/10/25 14:38	1
Cyclohexane	<0.10		0.50	0.10	ug/L			06/10/25 14:38	1
Dibromochloromethane	<0.080	cn	0.50	0.080	ug/L			06/10/25 14:38	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			06/10/25 14:38	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			06/10/25 14:38	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			06/10/25 14:38	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			06/10/25 14:38	1
Methyl acetate	<0.20		1.0	0.20	ug/L			06/10/25 14:38	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			06/10/25 14:38	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			06/10/25 14:38	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			06/10/25 14:38	1
Styrene	<0.070		0.50	0.070	ug/L			06/10/25 14:38	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			06/10/25 14:38	1
Toluene	<0.080		0.50	0.080	ug/L			06/10/25 14:38	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			06/10/25 14:38	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			06/10/25 14:38	1
Trichloroethene	<0.080		0.50	0.080	ug/L			06/10/25 14:38	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			06/10/25 14:38	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			06/10/25 14:38	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			06/10/25 14:38	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis-QL Frederick

Job ID: 410-226101-1

Client Sample ID: TB-060625

Lab Sample ID: 410-226101-1

Date Collected: 06/06/25 07:00

Matrix: Water

Date Received: 06/06/25 17:55

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		06/10/25 14:38	1
4-Bromofluorobenzene (Surr)	93		80 - 120		06/10/25 14:38	1
Dibromofluoromethane (Surr)	107		80 - 120		06/10/25 14:38	1
Toluene-d8 (Surr)	96		80 - 120		06/10/25 14:38	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			06/10/25 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid) (1C)	94		63 - 135		06/10/25 15:18	1

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (2C)	<0.0096	cn	0.019	0.0096	ug/L		06/11/25 05:38	06/11/25 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	141	S1+ cn	46 - 136	06/11/25 05:38	06/11/25 16:34	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	146	S1+ cn	46 - 136	06/11/25 05:38	06/11/25 16:34	1

Client Sample ID: QM-R-SV36103L-060625

Lab Sample ID: 410-226101-2

Date Collected: 06/06/25 09:45

Matrix: Water

Date Received: 06/06/25 17:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.080		0.50	0.080	ug/L			06/10/25 15:00	1
1,1,2,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			06/10/25 15:00	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			06/10/25 15:00	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			06/10/25 15:00	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			06/10/25 15:00	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			06/10/25 15:00	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			06/10/25 15:00	1
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			06/10/25 15:00	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/10/25 15:00	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			06/10/25 15:00	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			06/10/25 15:00	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/10/25 15:00	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/10/25 15:00	1
2-Butanone	<1.0		5.0	1.0	ug/L			06/10/25 15:00	1
2-Hexanone	<2.0		5.0	2.0	ug/L			06/10/25 15:00	1
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			06/10/25 15:00	1
Acetone	<1.5	cn	5.0	1.5	ug/L			06/10/25 15:00	1
Benzene	0.32	J	0.50	0.10	ug/L			06/10/25 15:00	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			06/10/25 15:00	1
Bromoform	<0.30		1.0	0.30	ug/L			06/10/25 15:00	1
Bromomethane	<0.10	cn	0.50	0.10	ug/L			06/10/25 15:00	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			06/10/25 15:00	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			06/10/25 15:00	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			06/10/25 15:00	1
Chloroethane	<0.10	cn	0.50	0.10	ug/L			06/10/25 15:00	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis-QL Frederick

Job ID: 410-226101-1

Client Sample ID: QM-R-SV36103L-060625

Lab Sample ID: 410-226101-2

Date Collected: 06/06/25 09:45

Matrix: Water

Date Received: 06/06/25 17:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.090		0.50	0.090	ug/L			06/10/25 15:00	1
Chloromethane	<0.10		0.50	0.10	ug/L			06/10/25 15:00	1
cis-1,2-Dichloroethene	<0.080		0.50	0.080	ug/L			06/10/25 15:00	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			06/10/25 15:00	1
Cyclohexane	<0.10		0.50	0.10	ug/L			06/10/25 15:00	1
Dibromochloromethane	<0.080	cn	0.50	0.080	ug/L			06/10/25 15:00	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			06/10/25 15:00	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			06/10/25 15:00	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			06/10/25 15:00	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			06/10/25 15:00	1
Methyl acetate	<0.20		1.0	0.20	ug/L			06/10/25 15:00	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			06/10/25 15:00	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			06/10/25 15:00	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			06/10/25 15:00	1
Styrene	<0.070		0.50	0.070	ug/L			06/10/25 15:00	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			06/10/25 15:00	1
Toluene	<0.080		0.50	0.080	ug/L			06/10/25 15:00	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			06/10/25 15:00	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			06/10/25 15:00	1
Trichloroethene	<0.080		0.50	0.080	ug/L			06/10/25 15:00	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			06/10/25 15:00	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			06/10/25 15:00	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			06/10/25 15:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		06/10/25 15:00	1
4-Bromofluorobenzene (Surr)	93		80 - 120		06/10/25 15:00	1
Dibromofluoromethane (Surr)	109		80 - 120		06/10/25 15:00	1
Toluene-d8 (Surr)	96		80 - 120		06/10/25 15:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.011		0.053	0.011	ug/L		06/13/25 15:23	06/16/25 19:25	1
Acenaphthylene	<0.011		0.053	0.011	ug/L		06/13/25 15:23	06/16/25 19:25	1
Anthracene	<0.011		0.053	0.011	ug/L		06/13/25 15:23	06/16/25 19:25	1
Benzo[a]anthracene	<0.011		0.053	0.011	ug/L		06/13/25 15:23	06/16/25 19:25	1
Benzo[a]pyrene	<0.011		0.053	0.011	ug/L		06/13/25 15:23	06/16/25 19:25	1
Benzo[b]fluoranthene	<0.050		0.053	0.050	ug/L		06/13/25 15:23	06/16/25 19:25	1
Benzo[g,h,i]perylene	<0.011		0.053	0.011	ug/L		06/13/25 15:23	06/16/25 19:25	1
Benzo[k]fluoranthene	<0.011		0.053	0.011	ug/L		06/13/25 15:23	06/16/25 19:25	1
Chrysene	<0.027		0.053	0.027	ug/L		06/13/25 15:23	06/16/25 19:25	1
Dibenz(a,h)anthracene	<0.021		0.053	0.021	ug/L		06/13/25 15:23	06/16/25 19:25	1
Fluoranthene	<0.024		0.053	0.024	ug/L		06/13/25 15:23	06/16/25 19:25	1
Fluorene	<0.011		0.053	0.011	ug/L		06/13/25 15:23	06/16/25 19:25	1
Indeno[1,2,3-cd]pyrene	<0.021		0.053	0.021	ug/L		06/13/25 15:23	06/16/25 19:25	1
Naphthalene	<0.072		0.074	0.072	ug/L		06/13/25 15:23	06/16/25 19:25	1
Phenanthrene	<0.032		0.074	0.032	ug/L		06/13/25 15:23	06/16/25 19:25	1
Pyrene	<0.022		0.053	0.022	ug/L		06/13/25 15:23	06/16/25 19:25	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis-QL Frederick

Job ID: 410-226101-1

Client Sample ID: QM-R-SV36103L-060625

Lab Sample ID: 410-226101-2

Date Collected: 06/06/25 09:45

Matrix: Water

Date Received: 06/06/25 17:55

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	51		10 - 121	06/13/25 15:23	06/16/25 19:25	1
1-Methylnaphthalene-d10 (Surr)	68		30 - 127	06/13/25 15:23	06/16/25 19:25	1
Fluoranthene-d10 (Surr)	62		34 - 130	06/13/25 15:23	06/16/25 19:25	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L	-		06/10/25 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid) (1C)	96		63 - 135		06/10/25 20:25	1

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (2C)	<0.0095		0.019	0.0095	ug/L	-	06/11/25 05:38	06/11/25 16:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	115		46 - 136	06/11/25 05:38	06/11/25 16:51	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	115		46 - 136	06/11/25 05:38	06/11/25 16:51	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	120		110	48	ug/L	-	06/13/25 15:40	06/16/25 21:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-terphenyl (Surr)	75		32 - 125	06/13/25 15:40	06/16/25 21:35	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	<0.0082		0.010	0.0082	ug/L	-	06/10/25 09:00	06/11/25 13:36	1
PCB-1221 (1C)	<0.0082		0.010	0.0082	ug/L	-	06/10/25 09:00	06/11/25 13:36	1
PCB-1232 (1C)	<0.0082		0.010	0.0082	ug/L	-	06/10/25 09:00	06/11/25 13:36	1
PCB-1242 (1C)	<0.0082		0.010	0.0082	ug/L	-	06/10/25 09:00	06/11/25 13:36	1
PCB-1248 (1C)	<0.0082		0.010	0.0082	ug/L	-	06/10/25 09:00	06/11/25 13:36	1
PCB-1254 (1C)	<0.0052		0.010	0.0052	ug/L	-	06/10/25 09:00	06/11/25 13:36	1
PCB-1260 (1C)	<0.0052		0.010	0.0052	ug/L	-	06/10/25 09:00	06/11/25 13:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	104		46 - 161	06/10/25 09:00	06/11/25 13:36	1
DCB Decachlorobiphenyl (Surr) (2C)	93		46 - 161	06/10/25 09:00	06/11/25 13:36	1
Tetrachloro-m-xylene (1C)	80		41 - 146	06/10/25 09:00	06/11/25 13:36	1
Tetrachloro-m-xylene (2C)	76		41 - 146	06/10/25 09:00	06/11/25 13:36	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	5.1		2.0	1.0	mg/L	-		06/11/25 14:19	10

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	430		25	12	ug/L	-	06/09/25 07:05	06/12/25 13:50	1
Antimony	0.25	J	1.0	0.20	ug/L	-	06/09/25 07:05	06/12/25 13:50	1
Arsenic	<0.68	^+ cn	2.0	0.68	ug/L	-	06/09/25 07:05	06/12/25 13:50	1
Barium	36		2.0	0.75	ug/L	-	06/09/25 07:05	06/12/25 13:50	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis-QL Frederick

Job ID: 410-226101-1

Client Sample ID: QM-R-SV36103L-060625

Lab Sample ID: 410-226101-2

Date Collected: 06/06/25 09:45

Matrix: Water

Date Received: 06/06/25 17:55

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.12		0.50	0.12	ug/L		06/09/25 07:05	06/12/25 13:50	1
Cadmium	<0.15		0.50	0.15	ug/L		06/09/25 07:05	06/12/25 13:50	1
Calcium	87000		120	50	ug/L		06/09/25 07:05	06/12/25 13:50	1
Chromium	0.93	J	2.0	0.55	ug/L		06/09/25 07:05	06/12/25 13:50	1
Cobalt	0.46	J	0.50	0.16	ug/L		06/09/25 07:05	06/12/25 13:50	1
Copper	1.1		1.0	0.85	ug/L		06/09/25 07:05	06/12/25 13:50	1
Iron	360		50	20	ug/L		06/09/25 07:05	06/12/25 13:50	1
Lead	0.35	J	0.50	0.12	ug/L		06/09/25 07:05	06/12/25 13:50	1
Magnesium	16000		50	16	ug/L		06/09/25 07:05	06/12/25 13:50	1
Manganese	22		2.0	0.95	ug/L		06/09/25 07:05	06/12/25 13:50	1
Nickel	1.2		1.0	0.40	ug/L		06/09/25 07:05	06/12/25 13:50	1
Potassium	4500		200	65	ug/L		06/09/25 07:05	06/12/25 13:50	1
Selenium	0.88	J	1.0	0.28	ug/L		06/09/25 07:05	06/12/25 22:14	1
Silver	<0.10		0.50	0.10	ug/L		06/09/25 07:05	06/12/25 13:50	1
Sodium	56000		200	90	ug/L		06/09/25 07:05	06/12/25 13:50	1
Thallium	<0.13		0.50	0.13	ug/L		06/09/25 07:05	06/12/25 13:50	1
Zinc	6.9	J	10	4.0	ug/L		06/09/25 07:05	06/12/25 13:50	1
Vanadium	<0.79		4.0	0.79	ug/L		06/09/25 07:05	06/12/25 13:50	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.087		0.20	0.087	ug/L		06/08/25 23:50	06/09/25 12:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	7.6	HF	0.01	0.01	S.U.			06/10/25 14:43	1
Temperature (SW846 9040C)	19.3	HF	0.01	0.01	Degrees C			06/10/25 14:43	1
Corrosivity (SW846 9040C)	No	HF	0.01	0.01	NONE			06/10/25 14:43	1
Cyanide, Free (OI CORP OIA-1677)	<0.0050		0.0060	0.0050	mg/L			06/09/25 12:13	1

Client Sample ID: QM-R-255850-060625

Lab Sample ID: 410-226101-3

Date Collected: 06/06/25 10:30

Matrix: Water

Date Received: 06/06/25 17:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.080		0.50	0.080	ug/L			06/10/25 15:22	1
1,1,2,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			06/10/25 15:22	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			06/10/25 15:22	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			06/10/25 15:22	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			06/10/25 15:22	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			06/10/25 15:22	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			06/10/25 15:22	1
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			06/10/25 15:22	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/10/25 15:22	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			06/10/25 15:22	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			06/10/25 15:22	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/10/25 15:22	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/10/25 15:22	1
2-Butanone	<1.0		5.0	1.0	ug/L			06/10/25 15:22	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis-QL Frederick

Job ID: 410-226101-1

Client Sample ID: QM-R-255850-060625

Lab Sample ID: 410-226101-3

Date Collected: 06/06/25 10:30

Matrix: Water

Date Received: 06/06/25 17:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<2.0		5.0	2.0	ug/L			06/10/25 15:22	1
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			06/10/25 15:22	1
Acetone	<1.5	cn	5.0	1.5	ug/L			06/10/25 15:22	1
Benzene	<0.10		0.50	0.10	ug/L			06/10/25 15:22	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			06/10/25 15:22	1
Bromoform	<0.30		1.0	0.30	ug/L			06/10/25 15:22	1
Bromomethane	<0.10	cn	0.50	0.10	ug/L			06/10/25 15:22	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			06/10/25 15:22	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			06/10/25 15:22	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			06/10/25 15:22	1
Chloroethane	<0.10	cn	0.50	0.10	ug/L			06/10/25 15:22	1
Chloroform	<0.090		0.50	0.090	ug/L			06/10/25 15:22	1
Chloromethane	<0.10		0.50	0.10	ug/L			06/10/25 15:22	1
cis-1,2-Dichloroethene	0.093	J	0.50	0.080	ug/L			06/10/25 15:22	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			06/10/25 15:22	1
Cyclohexane	<0.10		0.50	0.10	ug/L			06/10/25 15:22	1
Dibromochloromethane	<0.080	cn	0.50	0.080	ug/L			06/10/25 15:22	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			06/10/25 15:22	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			06/10/25 15:22	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			06/10/25 15:22	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			06/10/25 15:22	1
Methyl acetate	<0.20		1.0	0.20	ug/L			06/10/25 15:22	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			06/10/25 15:22	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			06/10/25 15:22	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			06/10/25 15:22	1
Styrene	<0.070		0.50	0.070	ug/L			06/10/25 15:22	1
Tetrachloroethene	0.69		0.50	0.20	ug/L			06/10/25 15:22	1
Toluene	<0.080		0.50	0.080	ug/L			06/10/25 15:22	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			06/10/25 15:22	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			06/10/25 15:22	1
Trichloroethene	0.28	J	0.50	0.080	ug/L			06/10/25 15:22	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			06/10/25 15:22	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			06/10/25 15:22	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			06/10/25 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		06/10/25 15:22	1
4-Bromofluorobenzene (Surr)	94		80 - 120		06/10/25 15:22	1
Dibromofluoromethane (Surr)	107		80 - 120		06/10/25 15:22	1
Toluene-d8 (Surr)	96		80 - 120		06/10/25 15:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.011		0.054	0.011	ug/L		06/13/25 15:23	06/16/25 19:47	1
Acenaphthylene	<0.011		0.054	0.011	ug/L		06/13/25 15:23	06/16/25 19:47	1
Anthracene	<0.011		0.054	0.011	ug/L		06/13/25 15:23	06/16/25 19:47	1
Benzo[a]anthracene	<0.011		0.054	0.011	ug/L		06/13/25 15:23	06/16/25 19:47	1
Benzo[a]pyrene	<0.011		0.054	0.011	ug/L		06/13/25 15:23	06/16/25 19:47	1
Benzo[b]fluoranthene	<0.050		0.054	0.050	ug/L		06/13/25 15:23	06/16/25 19:47	1
Benzo[g,h,i]perylene	<0.011		0.054	0.011	ug/L		06/13/25 15:23	06/16/25 19:47	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis-QL Frederick

Job ID: 410-226101-1

Client Sample ID: QM-R-255850-060625

Lab Sample ID: 410-226101-3

Date Collected: 06/06/25 10:30

Matrix: Water

Date Received: 06/06/25 17:55

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.011		0.054	0.011	ug/L		06/13/25 15:23	06/16/25 19:47	1
Chrysene	<0.027		0.054	0.027	ug/L		06/13/25 15:23	06/16/25 19:47	1
Dibenz(a,h)anthracene	<0.021		0.054	0.021	ug/L		06/13/25 15:23	06/16/25 19:47	1
Fluoranthene	<0.025		0.054	0.025	ug/L		06/13/25 15:23	06/16/25 19:47	1
Fluorene	<0.011		0.054	0.011	ug/L		06/13/25 15:23	06/16/25 19:47	1
Indeno[1,2,3-cd]pyrene	<0.021		0.054	0.021	ug/L		06/13/25 15:23	06/16/25 19:47	1
Naphthalene	<0.073		0.075	0.073	ug/L		06/13/25 15:23	06/16/25 19:47	1
Phenanthrene	<0.032		0.075	0.032	ug/L		06/13/25 15:23	06/16/25 19:47	1
Pyrene	<0.022		0.054	0.022	ug/L		06/13/25 15:23	06/16/25 19:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	51		10 - 121				06/13/25 15:23	06/16/25 19:47	1
1-Methylnaphthalene-d10 (Surr)	82		30 - 127				06/13/25 15:23	06/16/25 19:47	1
Fluoranthene-d10 (Surr)	78		34 - 130				06/13/25 15:23	06/16/25 19:47	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			06/10/25 20:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid) (1C)	94		63 - 135					06/10/25 20:50	1

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (2C)	<0.0095		0.019	0.0095	ug/L		06/11/25 05:38	06/11/25 17:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	116		46 - 136				06/11/25 05:38	06/11/25 17:08	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	110		46 - 136				06/11/25 05:38	06/11/25 17:08	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	<47		100	47	ug/L		06/13/25 15:40	06/16/25 21:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o- terphenyl (Surr)	81		32 - 125				06/13/25 15:40	06/16/25 21:59	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	<0.0077		0.0096	0.0077	ug/L		06/10/25 09:00	06/11/25 13:49	1
PCB-1221 (1C)	<0.0077		0.0096	0.0077	ug/L		06/10/25 09:00	06/11/25 13:49	1
PCB-1232 (1C)	<0.0077		0.0096	0.0077	ug/L		06/10/25 09:00	06/11/25 13:49	1
PCB-1242 (1C)	<0.0077		0.0096	0.0077	ug/L		06/10/25 09:00	06/11/25 13:49	1
PCB-1248 (1C)	<0.0077		0.0096	0.0077	ug/L		06/10/25 09:00	06/11/25 13:49	1
PCB-1254 (1C)	<0.0048		0.0096	0.0048	ug/L		06/10/25 09:00	06/11/25 13:49	1
PCB-1260 (1C)	<0.0048		0.0096	0.0048	ug/L		06/10/25 09:00	06/11/25 13:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	121		46 - 161				06/10/25 09:00	06/11/25 13:49	1
DCB Decachlorobiphenyl (Surr) (2C)	111		46 - 161				06/10/25 09:00	06/11/25 13:49	1
Tetrachloro-m-xylene (1C)	83		41 - 146				06/10/25 09:00	06/11/25 13:49	1
Tetrachloro-m-xylene (2C)	78		41 - 146				06/10/25 09:00	06/11/25 13:49	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis-QL Frederick

Job ID: 410-226101-1

Client Sample ID: QM-R-255850-060625

Lab Sample ID: 410-226101-3

Date Collected: 06/06/25 10:30

Matrix: Water

Date Received: 06/06/25 17:55

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.9		0.20	0.10	mg/L			06/11/25 14:28	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	130		25	12	ug/L		06/09/25 07:05	06/12/25 13:46	1
Antimony	<0.20		1.0	0.20	ug/L		06/09/25 07:05	06/12/25 13:46	1
Arsenic	<0.68	^+ cn	2.0	0.68	ug/L		06/09/25 07:05	06/12/25 13:46	1
Barium	27		2.0	0.75	ug/L		06/09/25 07:05	06/12/25 13:46	1
Beryllium	<0.12		0.50	0.12	ug/L		06/09/25 07:05	06/12/25 13:46	1
Cadmium	<0.15		0.50	0.15	ug/L		06/09/25 07:05	06/12/25 13:46	1
Calcium	110000		120	50	ug/L		06/09/25 07:05	06/12/25 13:46	1
Chromium	<0.55		2.0	0.55	ug/L		06/09/25 07:05	06/12/25 13:46	1
Cobalt	0.49	J	0.50	0.16	ug/L		06/09/25 07:05	06/12/25 13:46	1
Copper	<0.85		1.0	0.85	ug/L		06/09/25 07:05	06/12/25 13:46	1
Iron	450		50	20	ug/L		06/09/25 07:05	06/12/25 13:46	1
Lead	0.28	J	0.50	0.12	ug/L		06/09/25 07:05	06/12/25 13:46	1
Magnesium	17000		50	16	ug/L		06/09/25 07:05	06/12/25 13:46	1
Manganese	150		2.0	0.95	ug/L		06/09/25 07:05	06/12/25 13:46	1
Nickel	1.6		1.0	0.40	ug/L		06/09/25 07:05	06/12/25 13:46	1
Potassium	2700		200	65	ug/L		06/09/25 07:05	06/12/25 13:46	1
Selenium	0.64	J	1.0	0.28	ug/L		06/09/25 07:05	06/12/25 22:12	1
Silver	<0.10		0.50	0.10	ug/L		06/09/25 07:05	06/12/25 13:46	1
Sodium	89000		200	90	ug/L		06/09/25 07:05	06/12/25 13:46	1
Thallium	<0.13		0.50	0.13	ug/L		06/09/25 07:05	06/12/25 13:46	1
Zinc	240		10	4.0	ug/L		06/09/25 07:05	06/12/25 13:46	1
Vanadium	<0.79		4.0	0.79	ug/L		06/09/25 07:05	06/12/25 13:46	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.087		0.20	0.087	ug/L		06/08/25 23:50	06/09/25 13:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	7.6	HF	0.01	0.01	S.U.			06/10/25 14:43	1
Temperature (SW846 9040C)	19.3	HF	0.01	0.01	Degrees C			06/10/25 14:43	1
Corrosivity (SW846 9040C)	No	HF	0.01	0.01	NONE			06/10/25 14:43	1
Cyanide, Free (OI CORP OIA-1677)	<0.0050		0.0060	0.0050	mg/L			06/09/25 12:23	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis-QL Frederick

Job ID: 410-226101-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (80-120)	BFB (80-120)	DBFM (80-120)	TOL (80-120)
410-226101-1	TB-060625	103	93	107	96
410-226101-2	QM-R-SV36103L-060625	102	93	109	96
410-226101-3	QM-R-255850-060625	102	94	107	96
LCS 410-655367/4	Lab Control Sample	101	97	104	98
LCSD 410-655367/5	Lab Control Sample Dup	103	98	105	99
MB 410-655367/7	Method Blank	99	96	105	98
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
TOL = Toluene-d8 (Surr)					

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BAPd12 (10-121)	MNPd10 (30-127)	FLN10 (34-130)
410-226101-2	QM-R-SV36103L-060625	51	68	62
410-226101-3	QM-R-255850-060625	51	82	78
LCS 410-657505/2-A	Lab Control Sample	80	87	82
MB 410-657505/1-A	Method Blank	77	97	84
Surrogate Legend				
BAPd12 = Benzo(a)pyrene-d12 (Surr)				
MNPd10 = 1-Methylnaphthalene-d10 (Surr)				
FLN10 = Fluoranthene-d10 (Surr)				

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TFT-F1 (63-135)	
410-226101-1	TB-060625	94	
410-226101-2	QM-R-SV36103L-060625	96	
410-226101-3	QM-R-255850-060625	94	
LCS 410-655390/6	Lab Control Sample	86	
LCSD 410-655390/7	Lab Control Sample Dup	86	
MB 410-655390/5	Method Blank	96	
Surrogate Legend			
TFT-F = a,a,a-Trifluorotoluene (fid)			

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1122TCA1 (46-136)	1122TCA2 (46-136)
410-226101-1	TB-060625	141 S1+ cn	146 S1+ cn

Eurofins Lancaster Laboratories Environment Testing, LLC

Surrogate Summary

Client: Tetra Tech Inc

Job ID: 410-226101-1

Project/Site: Soil and Water Analysis-QL Frederick

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1122TCA1 (46-136)	1122TCA2 (46-136)
410-226101-2	QM-R-SV36103L-060625	115	115
410-226101-3	QM-R-255850-060625	116	110
LCS 410-655814/2-A	Lab Control Sample	96	99
LCSD 410-655814/3-A	Lab Control Sample Dup	113	116
MB 410-655814/1-A	Method Blank	90	96
Surrogate Legend			
1122TCA = 1,1,2,2-Tetrachloroethane (Surr)			

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	OTP (32-125)	
410-226101-2	QM-R-SV36103L-060625	75	
410-226101-3	QM-R-255850-060625	81	
LCS 410-657523/2-A	Lab Control Sample	77	
LCSD 410-657523/3-A	Lab Control Sample Dup	84	
MB 410-657523/1-A	Method Blank	81	
Surrogate Legend			
OTP = o- terphenyl (Surr)			

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCB1 (46-161)	DCB2 (46-161)	TCX1 (41-146)	TCX2 (41-146)
410-226101-2	QM-R-SV36103L-060625	104	93	80	76
410-226101-3	QM-R-255850-060625	121	111	83	78
LCS 410-655271/2-A	Lab Control Sample	124	113	78	74
LCSD 410-655271/3-A	Lab Control Sample Dup	131	117	75	68
MB 410-655271/1-A	Method Blank	120	109	78	72
Surrogate Legend					
DCB = DCB Decachlorobiphenyl (Surr)					
TCX = Tetrachloro-m-xylene					

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis-QL Frederick

Job ID: 410-226101-1

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

Lab Sample ID: MB 410-655367/7

Matrix: Water

Analysis Batch: 655367

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	<0.080		0.50	0.080	ug/L			06/10/25 12:51	1
1,1,1,2,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			06/10/25 12:51	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			06/10/25 12:51	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			06/10/25 12:51	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			06/10/25 12:51	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			06/10/25 12:51	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			06/10/25 12:51	1
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			06/10/25 12:51	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/10/25 12:51	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			06/10/25 12:51	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			06/10/25 12:51	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/10/25 12:51	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/10/25 12:51	1
2-Butanone	<1.0		5.0	1.0	ug/L			06/10/25 12:51	1
2-Hexanone	<2.0		5.0	2.0	ug/L			06/10/25 12:51	1
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			06/10/25 12:51	1
Acetone	<1.5		5.0	1.5	ug/L			06/10/25 12:51	1
Benzene	<0.10		0.50	0.10	ug/L			06/10/25 12:51	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			06/10/25 12:51	1
Bromoform	<0.30		1.0	0.30	ug/L			06/10/25 12:51	1
Bromomethane	<0.10		0.50	0.10	ug/L			06/10/25 12:51	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			06/10/25 12:51	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			06/10/25 12:51	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			06/10/25 12:51	1
Chloroethane	<0.10		0.50	0.10	ug/L			06/10/25 12:51	1
Chloroform	<0.090		0.50	0.090	ug/L			06/10/25 12:51	1
Chloromethane	<0.10		0.50	0.10	ug/L			06/10/25 12:51	1
cis-1,2-Dichloroethene	<0.080		0.50	0.080	ug/L			06/10/25 12:51	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			06/10/25 12:51	1
Cyclohexane	<0.10		0.50	0.10	ug/L			06/10/25 12:51	1
Dibromochloromethane	<0.080		0.50	0.080	ug/L			06/10/25 12:51	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			06/10/25 12:51	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			06/10/25 12:51	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			06/10/25 12:51	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			06/10/25 12:51	1
Methyl acetate	<0.20		1.0	0.20	ug/L			06/10/25 12:51	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			06/10/25 12:51	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			06/10/25 12:51	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			06/10/25 12:51	1
Styrene	<0.070		0.50	0.070	ug/L			06/10/25 12:51	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			06/10/25 12:51	1
Toluene	<0.080		0.50	0.080	ug/L			06/10/25 12:51	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			06/10/25 12:51	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			06/10/25 12:51	1
Trichloroethene	<0.080		0.50	0.080	ug/L			06/10/25 12:51	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			06/10/25 12:51	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			06/10/25 12:51	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			06/10/25 12:51	1

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QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis-QL Frederick

Job ID: 410-226101-1

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

Lab Sample ID: MB 410-655367/7

Matrix: Water

Analysis Batch: 655367

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		06/10/25 12:51	1
4-Bromofluorobenzene (Surr)	96		80 - 120		06/10/25 12:51	1
Dibromofluoromethane (Surr)	105		80 - 120		06/10/25 12:51	1
Toluene-d8 (Surr)	98		80 - 120		06/10/25 12:51	1

Lab Sample ID: LCS 410-655367/4

Matrix: Water

Analysis Batch: 655367

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	5.00	5.24		ug/L		105	78 - 126
1,1,1,2-Tetrachloroethane	5.00	4.68		ug/L		94	75 - 123
1,1,1,2-Trichloroethane	5.00	4.82		ug/L		96	80 - 120
1,1-Dichloroethane	5.00	5.00		ug/L		100	74 - 120
1,1-Dichloroethene	5.00	5.40		ug/L		108	80 - 131
1,2,4-Trichlorobenzene	5.00	4.91		ug/L		98	68 - 122
1,2-Dibromo-3-Chloropropane	5.00	3.98		ug/L		80	75 - 124
1,2-Dibromoethane	5.00	4.88		ug/L		98	80 - 120
1,2-Dichlorobenzene	5.00	4.74		ug/L		95	80 - 120
1,2-Dichloroethane	5.00	4.71		ug/L		94	69 - 122
1,2-Dichloropropane	5.00	4.91		ug/L		98	80 - 120
1,3-Dichlorobenzene	5.00	4.77		ug/L		95	80 - 120
1,4-Dichlorobenzene	5.00	4.79		ug/L		96	80 - 120
2-Butanone	62.5	54.0		ug/L		86	59 - 141
2-Hexanone	62.5	48.9		ug/L		78	52 - 140
4-Methyl-2-pentanone	62.5	50.0		ug/L		80	55 - 140
Acetone	62.5	49.9		ug/L		80	60 - 146
Benzene	5.00	4.77		ug/L		95	80 - 120
Bromodichloromethane	5.00	5.21		ug/L		104	80 - 123
Bromoform	5.00	5.31		ug/L		106	75 - 126
Bromomethane	5.00	3.79		ug/L		76	63 - 120
Carbon disulfide	5.00	5.18		ug/L		104	67 - 130
Carbon tetrachloride	5.00	5.52		ug/L		110	64 - 141
Chlorobenzene	5.00	4.85		ug/L		97	80 - 120
Chloroethane	5.00	3.68		ug/L		74	63 - 120
Chloroform	5.00	5.06		ug/L		101	80 - 120
Chloromethane	5.00	4.77		ug/L		95	56 - 124
cis-1,2-Dichloroethene	5.00	4.90		ug/L		98	80 - 122
cis-1,3-Dichloropropene	5.00	4.65		ug/L		93	67 - 121
Cyclohexane	5.00	4.69		ug/L		94	69 - 120
Dibromochloromethane	5.00	5.41		ug/L		108	80 - 123
Dichlorodifluoromethane	5.00	4.59		ug/L		92	43 - 123
Ethylbenzene	5.00	4.69		ug/L		94	80 - 120
1,1,2-Trichlorotrifluoroethane	5.00	5.08		ug/L		102	67 - 124
Isopropylbenzene	5.00	5.30		ug/L		106	80 - 120
Methyl acetate	5.00	3.52		ug/L		70	59 - 143
Methyl tertiary butyl ether	5.00	4.58		ug/L		92	69 - 120
Methylcyclohexane	5.00	4.74		ug/L		95	80 - 120

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis-QL Frederick

Job ID: 410-226101-1

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

Lab Sample ID: LCS 410-655367/4

Matrix: Water

Analysis Batch: 655367

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	5.00	5.01		ug/L		100	80 - 120
Styrene	5.00	4.82		ug/L		96	80 - 120
Tetrachloroethene	5.00	5.02		ug/L		100	80 - 120
Toluene	5.00	4.74		ug/L		95	80 - 120
trans-1,2-Dichloroethene	5.00	5.09		ug/L		102	80 - 122
trans-1,3-Dichloropropene	5.00	4.74		ug/L		95	61 - 129
Trichloroethene	5.00	4.85		ug/L		97	80 - 120
Trichlorofluoromethane	5.00	4.23		ug/L		85	53 - 136
Vinyl chloride	5.00	4.73		ug/L		95	60 - 125
Xylenes, Total	15.0	14.1		ug/L		94	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	104		80 - 120
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 410-655367/5

Matrix: Water

Analysis Batch: 655367

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	5.00	5.60		ug/L		112	78 - 126	7	30
1,1,2,2-Tetrachloroethane	5.00	5.08		ug/L		102	75 - 123	8	30
1,1,2-Trichloroethane	5.00	5.26		ug/L		105	80 - 120	9	30
1,1-Dichloroethane	5.00	5.34		ug/L		107	74 - 120	7	30
1,1-Dichloroethene	5.00	5.88		ug/L		118	80 - 131	8	30
1,2,4-Trichlorobenzene	5.00	5.17		ug/L		103	68 - 122	5	30
1,2-Dibromo-3-Chloropropane	5.00	4.32		ug/L		86	75 - 124	8	30
1,2-Dibromoethane	5.00	5.32		ug/L		106	80 - 120	9	30
1,2-Dichlorobenzene	5.00	5.17		ug/L		103	80 - 120	8	30
1,2-Dichloroethane	5.00	5.27		ug/L		105	69 - 122	11	30
1,2-Dichloropropane	5.00	5.31		ug/L		106	80 - 120	8	30
1,3-Dichlorobenzene	5.00	5.08		ug/L		102	80 - 120	6	30
1,4-Dichlorobenzene	5.00	5.06		ug/L		101	80 - 120	5	30
2-Butanone	62.5	53.5		ug/L		86	59 - 141	1	30
2-Hexanone	62.5	52.3		ug/L		84	52 - 140	7	30
4-Methyl-2-pentanone	62.5	52.6		ug/L		84	55 - 140	5	30
Acetone	62.5	53.5		ug/L		86	60 - 146	7	30
Benzene	5.00	5.17		ug/L		103	80 - 120	8	30
Bromodichloromethane	5.00	5.65		ug/L		113	80 - 123	8	30
Bromoform	5.00	5.53		ug/L		111	75 - 126	4	30
Bromomethane	5.00	4.17		ug/L		83	63 - 120	10	30
Carbon disulfide	5.00	5.49		ug/L		110	67 - 130	6	30
Carbon tetrachloride	5.00	5.89		ug/L		118	64 - 141	6	30
Chlorobenzene	5.00	5.17		ug/L		103	80 - 120	7	30
Chloroethane	5.00	4.08		ug/L		82	63 - 120	10	30
Chloroform	5.00	5.38		ug/L		108	80 - 120	6	30

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis-QL Frederick

Job ID: 410-226101-1

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

Lab Sample ID: LCSD 410-655367/5

Matrix: Water

Analysis Batch: 655367

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
Chloromethane	5.00	5.29		ug/L		106	56 - 124	10	30
cis-1,2-Dichloroethene	5.00	5.30		ug/L		106	80 - 122	8	30
cis-1,3-Dichloropropene	5.00	5.02		ug/L		100	67 - 121	8	30
Cyclohexane	5.00	4.98		ug/L		100	69 - 120	6	30
Dibromochloromethane	5.00	5.85		ug/L		117	80 - 123	8	30
Dichlorodifluoromethane	5.00	5.13		ug/L		103	43 - 123	11	30
Ethylbenzene	5.00	5.03		ug/L		101	80 - 120	7	30
1,1,2-Trichlorotrifluoroethane	5.00	5.39		ug/L		108	67 - 124	6	30
Isopropylbenzene	5.00	5.67		ug/L		113	80 - 120	7	30
Methyl acetate	5.00	3.46		ug/L		69	59 - 143	2	30
Methyl tertiary butyl ether	5.00	4.99		ug/L		100	69 - 120	9	30
Methylcyclohexane	5.00	5.10		ug/L		102	80 - 120	7	30
Methylene Chloride	5.00	5.40		ug/L		108	80 - 120	7	30
Styrene	5.00	5.22		ug/L		104	80 - 120	8	30
Tetrachloroethene	5.00	5.38		ug/L		108	80 - 120	7	30
Toluene	5.00	5.06		ug/L		101	80 - 120	7	30
trans-1,2-Dichloroethene	5.00	5.46		ug/L		109	80 - 122	7	30
trans-1,3-Dichloropropene	5.00	5.14		ug/L		103	61 - 129	8	30
Trichloroethene	5.00	5.15		ug/L		103	80 - 120	6	30
Trichlorofluoromethane	5.00	4.49		ug/L		90	53 - 136	6	30
Vinyl chloride	5.00	5.20		ug/L		104	60 - 125	9	30
Xylenes, Total	15.0	15.2		ug/L		101	80 - 120	8	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		80 - 120
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	105		80 - 120
Toluene-d8 (Surr)	99		80 - 120

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

Lab Sample ID: MB 410-657505/1-A

Matrix: Water

Analysis Batch: 658311

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 657505

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.010		0.050	0.010	ug/L		06/13/25 15:23	06/16/25 18:01	1
Acenaphthylene	<0.010		0.050	0.010	ug/L		06/13/25 15:23	06/16/25 18:01	1
Anthracene	<0.010		0.050	0.010	ug/L		06/13/25 15:23	06/16/25 18:01	1
Benzo[a]anthracene	<0.010		0.050	0.010	ug/L		06/13/25 15:23	06/16/25 18:01	1
Benzo[a]pyrene	<0.010		0.050	0.010	ug/L		06/13/25 15:23	06/16/25 18:01	1
Benzo[b]fluoranthene	<0.047		0.050	0.047	ug/L		06/13/25 15:23	06/16/25 18:01	1
Benzo[g,h,i]perylene	<0.010		0.050	0.010	ug/L		06/13/25 15:23	06/16/25 18:01	1
Benzo[k]fluoranthene	<0.010		0.050	0.010	ug/L		06/13/25 15:23	06/16/25 18:01	1
Chrysene	<0.025		0.050	0.025	ug/L		06/13/25 15:23	06/16/25 18:01	1
Dibenz(a,h)anthracene	<0.020		0.050	0.020	ug/L		06/13/25 15:23	06/16/25 18:01	1
Fluoranthene	<0.023		0.050	0.023	ug/L		06/13/25 15:23	06/16/25 18:01	1
Fluorene	<0.010		0.050	0.010	ug/L		06/13/25 15:23	06/16/25 18:01	1
Indeno[1,2,3-cd]pyrene	<0.020		0.050	0.020	ug/L		06/13/25 15:23	06/16/25 18:01	1

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QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis-QL Frederick

Job ID: 410-226101-1

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

Lab Sample ID: MB 410-657505/1-A

Matrix: Water

Analysis Batch: 658311

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 657505

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<0.068		0.070	0.068	ug/L		06/13/25 15:23	06/16/25 18:01	1
Phenanthrene	<0.030		0.070	0.030	ug/L		06/13/25 15:23	06/16/25 18:01	1
Pyrene	<0.021		0.050	0.021	ug/L		06/13/25 15:23	06/16/25 18:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	77		10 - 121	06/13/25 15:23	06/16/25 18:01	1
1-Methylnaphthalene-d10 (Surr)	97		30 - 127	06/13/25 15:23	06/16/25 18:01	1
Fluoranthene-d10 (Surr)	84		34 - 130	06/13/25 15:23	06/16/25 18:01	1

Lab Sample ID: LCS 410-657505/2-A

Matrix: Water

Analysis Batch: 658311

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 657505

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.00	0.769		ug/L		77	33 - 122
Acenaphthylene	1.00	0.855		ug/L		86	35 - 123
Anthracene	1.00	0.820		ug/L		82	40 - 127
Benzo[a]anthracene	1.00	0.834		ug/L		83	34 - 128
Benzo[a]pyrene	1.00	0.883		ug/L		88	38 - 134
Benzo[b]fluoranthene	1.00	0.772		ug/L		77	35 - 131
Benzo[g,h,i]perylene	1.00	0.947		ug/L		95	31 - 139
Benzo[k]fluoranthene	1.00	0.960		ug/L		96	42 - 146
Chrysene	1.00	0.814		ug/L		81	34 - 134
Dibenz(a,h)anthracene	1.00	0.904		ug/L		90	29 - 136
Fluoranthene	1.00	0.787		ug/L		79	36 - 129
Fluorene	1.00	0.807		ug/L		81	35 - 124
Indeno[1,2,3-cd]pyrene	1.00	0.892		ug/L		89	28 - 137
Naphthalene	1.00	0.716		ug/L		72	26 - 120
Phenanthrene	1.00	0.789		ug/L		79	37 - 125
Pyrene	1.00	0.855		ug/L		85	34 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Benzo(a)pyrene-d12 (Surr)	80		10 - 121
1-Methylnaphthalene-d10 (Surr)	87		30 - 127
Fluoranthene-d10 (Surr)	82		34 - 130

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 410-655390/5

Matrix: Water

Analysis Batch: 655390

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			06/10/25 11:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid) (1C)	96		63 - 135		06/10/25 11:54	1

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QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis-QL Frederick

Job ID: 410-226101-1

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: LCS 410-655390/6

Matrix: Water

Analysis Batch: 655390

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline (Unleaded) (1C)			1100	1020		ug/L		92	66 - 120		
			LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits								
a,a,a-Trifluorotoluene (fid) (1C)	86		63 - 135								

Lab Sample ID: LCSD 410-655390/7

Matrix: Water

Analysis Batch: 655390

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline (Unleaded) (1C)			1100	1000		ug/L	-	91	66 - 120	2	30
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
a,a,a-Trifluorotoluene (fid) (1C)	86		63 - 135								

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-655814/1-A

Matrix: Water

Analysis Batch: 656031

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 655814

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ethylene Dibromide (2C)	<0.010		0.020	0.010	ug/L		06/11/25 05:38	06/11/25 12:02	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
1,1,2,2-Tetrachloroethane (Surr) (1C)	90		46 - 136	06/11/25 05:38	06/11/25 12:02	1			
1,1,2,2-Tetrachloroethane (Surr) (2C)	96		46 - 136	06/11/25 05:38	06/11/25 12:02	1			

Lab Sample ID: LCS 410-655814/2-A

Matrix: Water

Analysis Batch: 656031

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 655814

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec	
			Added	Result	Qualifier			Limits		
Ethylene Dibromide (2C)			0.129	0.0883		ug/L		68	60 - 140	
Surrogate	LCS	LCS								
	%Recovery	Qualifier	Limits							
1,1,2,2-Tetrachloroethane (Surr) (1C)	96		46 - 136							
1,1,2,2-Tetrachloroethane (Surr) (2C)	99		46 - 136							

Lab Sample ID: LCSD 410-655814/3-A

Matrix: Water

Analysis Batch: 656031

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 655814

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylene Dibromide (2C)	0.129	0.106		ug/L		82	60 - 140	18	20

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis-QL Frederick

Job ID: 410-226101-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCSD 410-655814/3-A

Matrix: Water

Analysis Batch: 656031

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 655814

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,1,2,2-Tetrachloroethane (Surr) (1C)	113		46 - 136
1,1,2,2-Tetrachloroethane (Surr) (2C)	116		46 - 136

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 410-657523/1-A

Matrix: Water

Analysis Batch: 658122

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 657523

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	<45		100	45	ug/L		06/13/25 15:40	06/16/25 15:25	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o- terphenyl (Surr)	81		32 - 125				06/13/25 15:40	06/16/25 15:25	1

Lab Sample ID: LCS 410-657523/2-A

Matrix: Water

Analysis Batch: 658122

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 657523

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
DRO (C10-C28)	603	593		ug/L		98	20 - 115	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
o- terphenyl (Surr)	77		32 - 125					

Lab Sample ID: LCSD 410-657523/3-A

Matrix: Water

Analysis Batch: 658122

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 657523

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
DRO (C10-C28)	603	625		ug/L		104	20 - 115	5	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
o- terphenyl (Surr)	84		32 - 125						

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 410-655271/1-A

Matrix: Water

Analysis Batch: 655955

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 655271

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	<0.0080		0.010	0.0080	ug/L		06/10/25 09:00	06/11/25 10:26	1
PCB-1221 (1C)	<0.0080		0.010	0.0080	ug/L		06/10/25 09:00	06/11/25 10:26	1
PCB-1232 (1C)	<0.0080		0.010	0.0080	ug/L		06/10/25 09:00	06/11/25 10:26	1
PCB-1242 (1C)	<0.0080		0.010	0.0080	ug/L		06/10/25 09:00	06/11/25 10:26	1
PCB-1248 (1C)	<0.0080		0.010	0.0080	ug/L		06/10/25 09:00	06/11/25 10:26	1

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QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis-QL Frederick

Job ID: 410-226101-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: MB 410-655271/1-A

Matrix: Water

Analysis Batch: 655955

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 655271

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254 (1C)	<0.0050		0.010	0.0050	ug/L		06/10/25 09:00	06/11/25 10:26	1
PCB-1260 (1C)	<0.0050		0.010	0.0050	ug/L		06/10/25 09:00	06/11/25 10:26	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	120		46 - 161				06/10/25 09:00	06/11/25 10:26	1
DCB Decachlorobiphenyl (Surr) (2C)	109		46 - 161				06/10/25 09:00	06/11/25 10:26	1
Tetrachloro-m-xylene (1C)	78		41 - 146				06/10/25 09:00	06/11/25 10:26	1
Tetrachloro-m-xylene (2C)	72		41 - 146				06/10/25 09:00	06/11/25 10:26	1

Lab Sample ID: LCS 410-655271/2-A

Matrix: Water

Analysis Batch: 655955

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 655271

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016 (1C)	0.500	0.460		ug/L		92	60 - 117
PCB-1260 (1C)	0.500	0.543		ug/L		109	81 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
DCB Decachlorobiphenyl (Surr) (1C)	124		46 - 161				
DCB Decachlorobiphenyl (Surr) (2C)	113		46 - 161				
Tetrachloro-m-xylene (1C)	78		41 - 146				
Tetrachloro-m-xylene (2C)	74		41 - 146				

Lab Sample ID: LCSD 410-655271/3-A

Matrix: Water

Analysis Batch: 655955

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 655271

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016 (1C)	0.500	0.431		ug/L		86	60 - 117	6	30
PCB-1260 (1C)	0.500	0.539		ug/L		108	81 - 130	1	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
DCB Decachlorobiphenyl (Surr) (1C)	131		46 - 161						
DCB Decachlorobiphenyl (Surr) (2C)	117		46 - 161						
Tetrachloro-m-xylene (1C)	75		41 - 146						
Tetrachloro-m-xylene (2C)	68		41 - 146						

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-656110/5

Matrix: Water

Analysis Batch: 656110

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.20	0.10	mg/L			06/11/25 08:49	1

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QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis-QL Frederick

Job ID: 410-226101-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 410-656110/3

Matrix: Water

Analysis Batch: 656110

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.750	0.799		mg/L		107	90 - 110

Lab Sample ID: LCSD 410-656110/4

Matrix: Water

Analysis Batch: 656110

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
Fluoride	0.750	0.801		mg/L		107	90 - 110	0	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-654485/1-A

Matrix: Water

Analysis Batch: 656822

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 654485

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<12		25	12	ug/L		06/09/25 07:05	06/12/25 12:46	1
Antimony	<0.20		1.0	0.20	ug/L		06/09/25 07:05	06/12/25 12:46	1
Arsenic	<0.68		2.0	0.68	ug/L		06/09/25 07:05	06/12/25 12:46	1
Barium	<0.75		2.0	0.75	ug/L		06/09/25 07:05	06/12/25 12:46	1
Beryllium	<0.12		0.50	0.12	ug/L		06/09/25 07:05	06/12/25 12:46	1
Cadmium	<0.15		0.50	0.15	ug/L		06/09/25 07:05	06/12/25 12:46	1
Calcium	<50		120	50	ug/L		06/09/25 07:05	06/12/25 12:46	1
Chromium	<0.55		2.0	0.55	ug/L		06/09/25 07:05	06/12/25 12:46	1
Cobalt	<0.16		0.50	0.16	ug/L		06/09/25 07:05	06/12/25 12:46	1
Copper	<0.85		1.0	0.85	ug/L		06/09/25 07:05	06/12/25 12:46	1
Iron	<20		50	20	ug/L		06/09/25 07:05	06/12/25 12:46	1
Lead	<0.12		0.50	0.12	ug/L		06/09/25 07:05	06/12/25 12:46	1
Lead	<0.12		0.50	0.12	ug/L		06/09/25 07:05	06/12/25 12:46	1
Lead	<0.12		0.50	0.12	ug/L		06/09/25 07:05	06/12/25 12:46	1
Magnesium	<16		50	16	ug/L		06/09/25 07:05	06/12/25 12:46	1
Manganese	<0.95		2.0	0.95	ug/L		06/09/25 07:05	06/12/25 12:46	1
Nickel	<0.40		1.0	0.40	ug/L		06/09/25 07:05	06/12/25 12:46	1
Potassium	<65		200	65	ug/L		06/09/25 07:05	06/12/25 12:46	1
Selenium	<0.28		1.0	0.28	ug/L		06/09/25 07:05	06/12/25 12:46	1
Silver	<0.10		0.50	0.10	ug/L		06/09/25 07:05	06/12/25 12:46	1
Sodium	<90		200	90	ug/L		06/09/25 07:05	06/12/25 12:46	1
Thallium	<0.13		0.50	0.13	ug/L		06/09/25 07:05	06/12/25 12:46	1
Zinc	<4.0		10	4.0	ug/L		06/09/25 07:05	06/12/25 12:46	1
Vanadium	<0.79		4.0	0.79	ug/L		06/09/25 07:05	06/12/25 12:46	1

Lab Sample ID: LCS 410-654485/2-A

Matrix: Water

Analysis Batch: 656822

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 654485

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5000	4920		ug/L		98	83 - 114
Antimony	100	103		ug/L		103	85 - 115
Arsenic	500	513		ug/L		103	86 - 111

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis-QL Frederick

Job ID: 410-226101-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-654485/2-A

Matrix: Water

Analysis Batch: 656822

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 654485

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Barium	500	517		ug/L		103	86 - 114	
Beryllium	50.0	50.8		ug/L		102	80 - 120	
Cadmium	50.0	51.1		ug/L		102	86 - 114	
Calcium	5000	5150		ug/L		103	84 - 113	
Chromium	500	509		ug/L		102	84 - 113	
Cobalt	500	490		ug/L		98	85 - 112	
Copper	500	513		ug/L		103	86 - 111	
Iron	5000	5100		ug/L		102	84 - 114	
Lead	50.0	50.8		ug/L		102	86 - 114	
Lead	50.0	52.8		ug/L		106	86 - 114	
Lead	50.0	52.1		ug/L		104	86 - 114	
Magnesium	5000	5030		ug/L		101	84 - 113	
Manganese	500	510		ug/L		102	84 - 113	
Nickel	500	508		ug/L		102	85 - 113	
Potassium	5000	5120		ug/L		102	87 - 111	
Selenium	100	99.0		ug/L		99	86 - 111	
Silver	50.0	52.5		ug/L		105	88 - 116	
Sodium	5000	5140		ug/L		103	84 - 114	
Thallium	100	104		ug/L		104	86 - 113	
Zinc	500	508		ug/L		102	86 - 112	
Vanadium	500	507		ug/L		101	84 - 112	

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-654515/1-A

Matrix: Water

Analysis Batch: 655039

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 654515

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.087		0.20	0.087	ug/L		06/08/25 23:50	06/09/25 12:42	1

Lab Sample ID: LCS 410-654515/2-A

Matrix: Water

Analysis Batch: 655039

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 654515

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Mercury	1.00	1.13		ug/L		113	80 - 120	

Lab Sample ID: LCSD 410-654515/3-A

Matrix: Water

Analysis Batch: 655039

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 654515

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD	
									RPD	Limit
Mercury	1.00	1.11		ug/L		111	80 - 120		2	20

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis-QL Frederick

Job ID: 410-226101-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 410-226101-2 MS

Matrix: Water

Analysis Batch: 655039

Client Sample ID: QM-R-SV36103L-060625

Prep Type: Total/NA

Prep Batch: 654515

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.087		1.00	1.17		ug/L		117	80 - 120

Lab Sample ID: 410-226101-2 MSD

Matrix: Water

Analysis Batch: 655039

Client Sample ID: QM-R-SV36103L-060625

Prep Type: Total/NA

Prep Batch: 654515

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.087		1.00	1.15		ug/L		115	80 - 120	2	20

Lab Sample ID: 410-226101-2 DU

Matrix: Water

Analysis Batch: 655039

Client Sample ID: QM-R-SV36103L-060625

Prep Type: Total/NA

Prep Batch: 654515

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.087		<0.087		ug/L				NC	20

Method: 9040C - pH

Lab Sample ID: LCS 410-655613/1

Matrix: Water

Analysis Batch: 655613

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		S.U.		100	95 - 105

Method: OIA-1677 - Cyanide, Free (Flow Injection)

Lab Sample ID: MB 410-655085/17

Matrix: Water

Analysis Batch: 655085

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	<0.0050		0.0060	0.0050	mg/L			06/09/25 11:56	1

Lab Sample ID: LCS 410-655085/16

Matrix: Water

Analysis Batch: 655085

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Free	0.0500	0.0517		mg/L		103	82 - 132

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis-QL Frederick

Job ID: 410-226101-1

GC/MS VOA

Analysis Batch: 655367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226101-1	TB-060625	Total/NA	Water	8260D	
410-226101-2	QM-R-SV36103L-060625	Total/NA	Water	8260D	
410-226101-3	QM-R-255850-060625	Total/NA	Water	8260D	
MB 410-655367/7	Method Blank	Total/NA	Water	8260D	
LCS 410-655367/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 410-655367/5	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 657505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226101-2	QM-R-SV36103L-060625	Total/NA	Water	3510C	
410-226101-3	QM-R-255850-060625	Total/NA	Water	3510C	
MB 410-657505/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-657505/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 658311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226101-2	QM-R-SV36103L-060625	Total/NA	Water	8270D SIM	657505
410-226101-3	QM-R-255850-060625	Total/NA	Water	8270D SIM	657505
MB 410-657505/1-A	Method Blank	Total/NA	Water	8270D SIM	657505
LCS 410-657505/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	657505

GC VOA

Analysis Batch: 655390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226101-1	TB-060625	Total/NA	Water	8015D	
410-226101-2	QM-R-SV36103L-060625	Total/NA	Water	8015D	
410-226101-3	QM-R-255850-060625	Total/NA	Water	8015D	
MB 410-655390/5	Method Blank	Total/NA	Water	8015D	
LCS 410-655390/6	Lab Control Sample	Total/NA	Water	8015D	
LCSD 410-655390/7	Lab Control Sample Dup	Total/NA	Water	8015D	

GC Semi VOA

Prep Batch: 655271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226101-2	QM-R-SV36103L-060625	Total/NA	Water	3510C	
410-226101-3	QM-R-255850-060625	Total/NA	Water	3510C	
MB 410-655271/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-655271/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-655271/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 655814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226101-1	TB-060625	Total/NA	Water	8011	
410-226101-2	QM-R-SV36103L-060625	Total/NA	Water	8011	
410-226101-3	QM-R-255850-060625	Total/NA	Water	8011	
MB 410-655814/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-655814/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-655814/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis-QL Frederick

Job ID: 410-226101-1

GC Semi VOA

Analysis Batch: 655955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226101-2	QM-R-SV36103L-060625	Total/NA	Water	8082A	655271
410-226101-3	QM-R-255850-060625	Total/NA	Water	8082A	655271
MB 410-655271/1-A	Method Blank	Total/NA	Water	8082A	655271
LCS 410-655271/2-A	Lab Control Sample	Total/NA	Water	8082A	655271
LCSD 410-655271/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	655271

Analysis Batch: 656031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226101-1	TB-060625	Total/NA	Water	8011	655814
410-226101-2	QM-R-SV36103L-060625	Total/NA	Water	8011	655814
410-226101-3	QM-R-255850-060625	Total/NA	Water	8011	655814
MB 410-655814/1-A	Method Blank	Total/NA	Water	8011	655814
LCS 410-655814/2-A	Lab Control Sample	Total/NA	Water	8011	655814
LCSD 410-655814/3-A	Lab Control Sample Dup	Total/NA	Water	8011	655814

Prep Batch: 657523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226101-2	QM-R-SV36103L-060625	Total/NA	Water	3510C	
410-226101-3	QM-R-255850-060625	Total/NA	Water	3510C	
MB 410-657523/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-657523/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-657523/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 658122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226101-2	QM-R-SV36103L-060625	Total/NA	Water	8015D	657523
410-226101-3	QM-R-255850-060625	Total/NA	Water	8015D	657523
MB 410-657523/1-A	Method Blank	Total/NA	Water	8015D	657523
LCS 410-657523/2-A	Lab Control Sample	Total/NA	Water	8015D	657523
LCSD 410-657523/3-A	Lab Control Sample Dup	Total/NA	Water	8015D	657523

HPLC/IC

Analysis Batch: 656110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226101-2	QM-R-SV36103L-060625	Total/NA	Water	EPA 300.0 R2.1	
410-226101-3	QM-R-255850-060625	Total/NA	Water	EPA 300.0 R2.1	
MB 410-656110/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-656110/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-656110/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 654485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226101-2	QM-R-SV36103L-060625	Total Recoverable	Water	3005A	
410-226101-3	QM-R-255850-060625	Total Recoverable	Water	3005A	
MB 410-654485/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-654485/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis-QL Frederick

Job ID: 410-226101-1

Metals

Prep Batch: 654515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226101-2	QM-R-SV36103L-060625	Total/NA	Water	7470A	
410-226101-3	QM-R-255850-060625	Total/NA	Water	7470A	
MB 410-654515/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-654515/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 410-654515/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	
410-226101-2 MS	QM-R-SV36103L-060625	Total/NA	Water	7470A	
410-226101-2 MSD	QM-R-SV36103L-060625	Total/NA	Water	7470A	
410-226101-2 DU	QM-R-SV36103L-060625	Total/NA	Water	7470A	

Analysis Batch: 655039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226101-2	QM-R-SV36103L-060625	Total/NA	Water	7470A	654515
410-226101-3	QM-R-255850-060625	Total/NA	Water	7470A	654515
MB 410-654515/1-A	Method Blank	Total/NA	Water	7470A	654515
LCS 410-654515/2-A	Lab Control Sample	Total/NA	Water	7470A	654515
LCSD 410-654515/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	654515
410-226101-2 MS	QM-R-SV36103L-060625	Total/NA	Water	7470A	654515
410-226101-2 MSD	QM-R-SV36103L-060625	Total/NA	Water	7470A	654515
410-226101-2 DU	QM-R-SV36103L-060625	Total/NA	Water	7470A	654515

Analysis Batch: 656822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226101-2	QM-R-SV36103L-060625	Total Recoverable	Water	6020B	654485
410-226101-3	QM-R-255850-060625	Total Recoverable	Water	6020B	654485
MB 410-654485/1-A	Method Blank	Total Recoverable	Water	6020B	654485
LCS 410-654485/2-A	Lab Control Sample	Total Recoverable	Water	6020B	654485

Analysis Batch: 657058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226101-2	QM-R-SV36103L-060625	Total Recoverable	Water	6020B	654485
410-226101-3	QM-R-255850-060625	Total Recoverable	Water	6020B	654485

General Chemistry

Analysis Batch: 655085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226101-2	QM-R-SV36103L-060625	Total/NA	Water	OIA-1677	
410-226101-3	QM-R-255850-060625	Total/NA	Water	OIA-1677	
MB 410-655085/17	Method Blank	Total/NA	Water	OIA-1677	
LCS 410-655085/16	Lab Control Sample	Total/NA	Water	OIA-1677	

Analysis Batch: 655613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226101-2	QM-R-SV36103L-060625	Total/NA	Water	9040C	
410-226101-3	QM-R-255850-060625	Total/NA	Water	9040C	
LCS 410-655613/1	Lab Control Sample	Total/NA	Water	9040C	

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis-QL Frederick

Job ID: 410-226101-1

Client Sample ID: TB-060625

Lab Sample ID: 410-226101-1

Date Collected: 06/06/25 07:00

Matrix: Water

Date Received: 06/06/25 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	655367	DVW2	ELLE	06/10/25 14:38
Total/NA	Analysis	8015D		1	655390	P5AM	ELLE	06/10/25 15:18
Total/NA	Prep	8011			655814	UMAD	ELLE	06/11/25 05:38
Total/NA	Analysis	8011		1	656031	URS0	ELLE	06/11/25 16:34

Client Sample ID: QM-R-SV36103L-060625

Lab Sample ID: 410-226101-2

Date Collected: 06/06/25 09:45

Matrix: Water

Date Received: 06/06/25 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	655367	DVW2	ELLE	06/10/25 15:00
Total/NA	Prep	3510C			657505	T9CY	ELLE	06/13/25 15:23
Total/NA	Analysis	8270D SIM		1	658311	UJM0	ELLE	06/16/25 19:25
Total/NA	Analysis	8015D		1	655390	P5AM	ELLE	06/10/25 20:25
Total/NA	Prep	8011			655814	UMAD	ELLE	06/11/25 05:38
Total/NA	Analysis	8011		1	656031	URS0	ELLE	06/11/25 16:51
Total/NA	Prep	3510C			657523	T9CY	ELLE	06/13/25 15:40
Total/NA	Analysis	8015D		1	658122	KP5X	ELLE	06/16/25 21:35
Total/NA	Prep	3510C			655271	ZFS6	ELLE	06/10/25 09:00
Total/NA	Analysis	8082A		1	655955	M6UH	ELLE	06/11/25 13:36
Total/NA	Analysis	EPA 300.0 R2.1		10	656110	PYC6	ELLE	06/11/25 14:19
Total Recoverable	Prep	3005A			654485	UJL8	ELLE	06/09/25 07:05
Total Recoverable	Analysis	6020B		1	657058	I9IN	ELLE	06/12/25 22:14
Total Recoverable	Prep	3005A			654485	UJL8	ELLE	06/09/25 07:05
Total Recoverable	Analysis	6020B		1	656822	F7JF	ELLE	06/12/25 13:50
Total/NA	Prep	7470A			654515	UAMX	ELLE	06/08/25 23:50
Total/NA	Analysis	7470A		1	655039	IJ3I	ELLE	06/09/25 12:48
Total/NA	Analysis	9040C		1	655613	DI9Q	ELLE	06/10/25 14:43
Total/NA	Analysis	OIA-1677		1	655085	UJE2	ELLE	06/09/25 12:13

Client Sample ID: QM-R-255850-060625

Lab Sample ID: 410-226101-3

Date Collected: 06/06/25 10:30

Matrix: Water

Date Received: 06/06/25 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	655367	DVW2	ELLE	06/10/25 15:22
Total/NA	Prep	3510C			657505	T9CY	ELLE	06/13/25 15:23
Total/NA	Analysis	8270D SIM		1	658311	UJM0	ELLE	06/16/25 19:47
Total/NA	Analysis	8015D		1	655390	P5AM	ELLE	06/10/25 20:50
Total/NA	Prep	8011			655814	UMAD	ELLE	06/11/25 05:38
Total/NA	Analysis	8011		1	656031	URS0	ELLE	06/11/25 17:08
Total/NA	Prep	3510C			657523	T9CY	ELLE	06/13/25 15:40
Total/NA	Analysis	8015D		1	658122	KP5X	ELLE	06/16/25 21:59

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis-QL Frederick

Job ID: 410-226101-1

Client Sample ID: QM-R-255850-060625

Lab Sample ID: 410-226101-3

Date Collected: 06/06/25 10:30

Matrix: Water

Date Received: 06/06/25 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			655271	ZFS6	ELLE	06/10/25 09:00
Total/NA	Analysis	8082A		1	655955	M6UH	ELLE	06/11/25 13:49
Total/NA	Analysis	EPA 300.0 R2.1		1	656110	PYC6	ELLE	06/11/25 14:28
Total Recoverable	Prep	3005A			654485	UJL8	ELLE	06/09/25 07:05
Total Recoverable	Analysis	6020B		1	657058	I9IN	ELLE	06/12/25 22:12
Total Recoverable	Prep	3005A			654485	UJL8	ELLE	06/09/25 07:05
Total Recoverable	Analysis	6020B		1	656822	F7JF	ELLE	06/12/25 13:46
Total/NA	Prep	7470A			654515	UAMX	ELLE	06/08/25 23:50
Total/NA	Analysis	7470A		1	655039	IJ3I	ELLE	06/09/25 13:20
Total/NA	Analysis	9040C		1	655613	DI9Q	ELLE	06/10/25 14:43
Total/NA	Analysis	OIA-1677		1	655085	UJE2	ELLE	06/09/25 12:23

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Tetra Tech Inc

Job ID: 410-226101-1

Project/Site: Soil and Water Analysis-QL Frederick

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-26
A2LA	Dept. of Energy	0001.01	11-30-26
A2LA	ISO/IEC 17025	0001.01	11-30-26
Alabama	State	43200	01-31-26
Alaska	State	PA00009	06-30-25
Alaska (UST)	State	17-027	12-30-26
Arizona	State	AZ0780	03-12-26
Arkansas DEQ	State	88-00660	08-09-25
California	State	2792	01-31-26
Colorado	State	PA00009	06-30-25
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-26
Delaware (DW)	State	N/A	01-31-26
Florida	NELAP	E87997	06-30-25
Georgia (DW)	State	C048	01-31-26
Illinois	NELAP	200027	01-31-26
Iowa	State	361	03-01-26
Kansas	NELAP	E-10151	10-31-25
Kentucky (DW)	State	KY90088	12-31-25
Kentucky (UST)	State	0001.01	11-30-26
Kentucky (WW)	State	KY90088	12-31-25
Louisiana (All)	NELAP	02055	06-30-25
Maine	State	2019012	03-12-27
Maryland	State	100	06-30-25
Massachusetts	State	M-PA009	06-30-26
Michigan	State	9930	01-31-26
Minnesota	NELAP	042-999-487	12-31-25
Mississippi	State	023	01-31-26
Missouri	State	450	01-31-28
Montana (DW)	State	0098	01-01-26
Nebraska	State	NE-OS-32-17	01-31-26
New Hampshire	NELAP	2730	01-10-26
New Jersey	NELAP	PA011	06-30-25
New York	NELAP	10670	04-01-26
North Carolina (DW)	State	42705	07-31-25
North Carolina (WW/SW)	State	521	12-31-25
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-25
Oregon	NELAP	PA200001	09-11-25
Pennsylvania	NELAP	36-00037	01-31-26
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-29
Rhode Island	State	LAO00338	12-30-25
South Carolina	State	89002	01-31-26
Tennessee	State	02838	01-31-26
Texas	NELAP	T104704194-23-46	08-31-25
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-25
Virginia	NELAP	460182	06-14-26
Washington	State	C457	04-11-26

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

Eurofins Lancaster Laboratories Environment Testing, LLC

Accreditation/Certification Summary

Client: Tetra Tech Inc

Job ID: 410-226101-1

Project/Site: Soil and Water Analysis-QL Frederick

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date
West Virginia (DW)	State	9906 C	03-31-26
West Virginia DEP	State	055	07-31-25
Wyoming	State	8TMS-L	01-31-26
Wyoming (UST)	A2LA	0001.01	11-30-26

Method Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis-QL Frederick

Job ID: 410-226101-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	ELLE
8015D	Gasoline Range Organics (GRO) (GC)	SW846	ELLE
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
8015D	Diesel Range Organics (DRO) (GC)	SW846	ELLE
8082A	Polychlorinated Biphenyls (PCBs) (GC)	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6020B	Metals (ICP/MS)	SW846	ELLE
7470A	Mercury (CVAA)	SW846	ELLE
9040C	pH	SW846	ELLE
OIA-1677	Cyanide, Free (Flow Injection)	OI CORP	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
7470A	Preparation, Mercury	SW846	ELLE
8011	Microextraction	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

OI CORP = OI Corporation Instrument Manual.

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

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Tetra Tech Inc

Job ID: 410-226101-1

Project/Site: Soil and Water Analysis-QL Frederick

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-226101-1	TB-060625	Water	06/06/25 07:00	06/06/25 17:55
410-226101-2	QM-R-SV36103L-060625	Water	06/06/25 09:45	06/06/25 17:55
410-226101-3	QM-R-255850-060625	Water	06/06/25 10:30	06/06/25 17:55



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Chain of Custody Record



Environment Testing

410-226101 Chain of Custody

Client Contact: Amy McGivney		Sampler: Walt Paxon		Lab PM: Gordon, Stephen J		Carrier Tracking No(s): Lab		COC No: 410-158804-40814.2					
Company: Tetra Tech Inc		Phone: 301 991-3914		E-Mail: Stephen.Gordon@et.eurofinsus.com		State of Origin: Maryland		Page: Page 2 of 2					
Address: 20251 Century Blvd Suite 200		Due Date Requested:		Analysis Requested						Job #:			
City: Germantown		TAT Requested (days): 5 day TAT								Preservation Codes: A - HCL D - HNO3 N - None B - NaOH			
State, Zip: MD, 20874		Compliance Project: ☐ Yes ☐ No								Other:			
Phone: 301-528-3004(Tel) 301-528-3000(Fax)		PO #: 1219576											
Email: amy.mcgivney@tetratech.com		WO #:											
Project Name: Soil and Water Analysis - QL Frederick		Project #: 41018786		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8260D_LL - TCL VOCs 4.3 8011 - Ethylene Dibromide 6020B, 7470A 8270D_SIM - 16 PAHs 8082A_LL - Standard PCB List 8015D_ORO - Diesel Range Organics (C10-C28) 8015D_GRO - (MOD) Gasoline Range Organics 300_ORGFM_28D - Fluoride 1677_Free - Free Cyanide 9040C - pH, Temperature, Corrosivity						Total Number of containers			
Site: Quantum Maryland		SSOW#:											
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, B=solid, D=wastefail, BT=Tissue, A=Air, DW=Drinking Water)		Preservation Code:		Special Instructions/Note:	
TB-060625		6/6/25		0700		G		Water		X		6	
QM-R-SV36103L-060625		6/6/25		0945		G				X		18	
QM-R-255850-060625		6/6/25		1030		G				X		18	
* 5 day TAT *													
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: Walt Paxon		Date/Time: 6/6/25 1300		Company: IT		Received by: Amy Paxon		Date/Time: 6/6/25 1300		Company: ELLE			
Relinquished by: Amy Paxon		Date/Time: 6/6/25 17:55		Company: ELLE		Received by: Amy Paxon		Date/Time: 6/6/25 1755		Company: ELLE			
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: R:1.7 C:1.6									

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 410-226101-1

Login Number: 226101

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Reynolds, Benjamin

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(<=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (<=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	



ANALYTICAL REPORT

PREPARED FOR

Attn: Josh Mullis
Tetra Tech Inc
20251 Century Blvd
Suite 200
Germantown, Maryland 20874

Generated 6/17/2025 8:08:53 PM

JOB DESCRIPTION

Soil and Water Analysis - QL Frederick

JOB NUMBER

410-226639-1

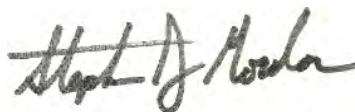
Eurofins Lancaster Laboratories Environment Testing, LLC

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
6/17/2025 8:08:53 PM

Authorized for release by
Stephen Gordon, Senior Project Manager
Stephen.Gordon@et.eurofinsus.com
(412)525-0071

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

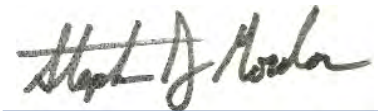


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Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
cn	Refer to Case Narrative for further detail

Metals

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.

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.

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)

Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

Client: Tetra Tech Inc
Project: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Job ID: 410-226639-1

Eurofins Lancaster Laboratories Environment

Job Narrative 410-226639-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 6/10/2025 6:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.0°C, 0.2°C and 0.4°C.

GC/MS VOA

Method 8260D_LL: The continuing calibration verification (CCV) associated with batch 410-657229 recovered above the upper control limit for Dibromochloromethane. Non-detections of the affected analytes are reported. Any detections are considered estimated.

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

GC/MS Semi VOA

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

Gasoline Range Organics

Method 8015D_GRO: The following sample(s) were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: QM-R-SV27454LM-061025 (410-226639-4). The sample(s) were analyzed within 7 days per EPA recommendation.

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

Diesel Range Organics

Method 8015D_DRO: The laboratory control sample (LCS) for preparation batch 410-656505 and analytical batch 410-656613 recovered outside control limits for the following analytes: DRO (C10-C28). This analytes was biased high in the LCS and was 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 Semi VOA

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

PCBs

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

HPLC/IC

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

Metals

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

General Chemistry

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

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Client Sample ID: TB-061025

Lab Sample ID: 410-226639-1

No Detections.

Client Sample ID: QM-R-SV27472LM-061025

Lab Sample ID: 410-226639-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	0.54		0.50	0.070	ug/L	1		8260D	Total/NA
Acetone	2.6	J	5.0	1.5	ug/L	1		8260D	Total/NA
Benzene	0.22	J	0.50	0.10	ug/L	1		8260D	Total/NA
Toluene	0.083	J	0.50	0.080	ug/L	1		8260D	Total/NA
Xylenes, Total	0.10	J	1.0	0.070	ug/L	1		8260D	Total/NA
Fluoride	0.69		0.20	0.10	mg/L	1		EPA 300.0 R2.1	Total/NA
Aluminum	54		25	12	ug/L	1		6020B	Total Recoverable
Antimony	0.40	J	1.0	0.20	ug/L	1		6020B	Total Recoverable
Barium	48		2.0	0.75	ug/L	1		6020B	Total Recoverable
Calcium	93000		120	50	ug/L	1		6020B	Total Recoverable
Cobalt	0.37	J	0.50	0.16	ug/L	1		6020B	Total Recoverable
Iron	84		50	20	ug/L	1		6020B	Total Recoverable
Magnesium	11000		50	16	ug/L	1		6020B	Total Recoverable
Manganese	27	B	2.0	0.95	ug/L	1		6020B	Total Recoverable
Nickel	0.88	J	1.0	0.40	ug/L	1		6020B	Total Recoverable
Potassium	2700		200	65	ug/L	1		6020B	Total Recoverable
Selenium	0.67	J	1.0	0.28	ug/L	1		6020B	Total Recoverable
Sodium	30000		200	90	ug/L	1		6020B	Total Recoverable
Zinc	23		10	4.0	ug/L	1		6020B	Total Recoverable
pH	7.9	HF	0.01	0.01	S.U.	1		9040C	Total/NA
Temperature	21.4	HF	0.01	0.01	Degrees C	1		9040C	Total/NA
Corrosivity	NO	HF	0.01	0.01	NONE	1		9040C	Total/NA
Cyanide, Free	0.022		0.0060	0.0050	mg/L	1		OIA-1677	Total/NA

Client Sample ID: QM-R-SV23192L-061025

Lab Sample ID: 410-226639-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.35	J	0.50	0.10	ug/L	1		8260D	Total/NA
Toluene	0.11	J	0.50	0.080	ug/L	1		8260D	Total/NA
Fluoride	0.82		0.20	0.10	mg/L	1		EPA 300.0 R2.1	Total/NA
Aluminum	78		25	12	ug/L	1		6020B	Total Recoverable
Barium	47		2.0	0.75	ug/L	1		6020B	Total Recoverable
Calcium	93000		120	50	ug/L	1		6020B	Total Recoverable
Cobalt	0.18	J	0.50	0.16	ug/L	1		6020B	Total Recoverable
Iron	120		50	20	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Client Sample ID: QM-R-SV23192L-061025 (Continued)

Lab Sample ID: 410-226639-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	11000		50	16	ug/L	1		6020B	Total Recoverable
Manganese	29		2.0	0.95	ug/L	1		6020B	Total Recoverable
Potassium	2400		200	65	ug/L	1		6020B	Total Recoverable
Selenium	0.30	J	1.0	0.28	ug/L	1		6020B	Total Recoverable
Sodium	21000		200	90	ug/L	1		6020B	Total Recoverable
Zinc	4.6	J	10	4.0	ug/L	1		6020B	Total Recoverable
pH	7.8	HF	0.01	0.01	S.U.	1		9040C	Total/NA
Temperature	21.4	HF	0.01	0.01	Degrees C	1		9040C	Total/NA
Corrosivity	NO	HF	0.01	0.01	NONE	1		9040C	Total/NA

Client Sample ID: QM-R-SV27454LM-061025

Lab Sample ID: 410-226639-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.5		0.50	0.080	ug/L	1		8260D	Total/NA
Fluoride	0.34		0.20	0.10	mg/L	1		EPA 300.0 R2.1	Total/NA
Aluminum	310		25	12	ug/L	1		6020B	Total Recoverable
Barium	45		2.0	0.75	ug/L	1		6020B	Total Recoverable
Calcium	88000		120	50	ug/L	1		6020B	Total Recoverable
Cobalt	0.60		0.50	0.16	ug/L	1		6020B	Total Recoverable
Iron	270		50	20	ug/L	1		6020B	Total Recoverable
Lead	0.25	J	0.50	0.12	ug/L	1		6020B	Total Recoverable
Magnesium	9500		50	16	ug/L	1		6020B	Total Recoverable
Manganese	94	B	2.0	0.95	ug/L	1		6020B	Total Recoverable
Nickel	0.56	J	1.0	0.40	ug/L	1		6020B	Total Recoverable
Potassium	2200		200	65	ug/L	1		6020B	Total Recoverable
Selenium	0.33	J	1.0	0.28	ug/L	1		6020B	Total Recoverable
Sodium	10000		200	90	ug/L	1		6020B	Total Recoverable
Vanadium	0.90	J	4.0	0.79	ug/L	1		6020B	Total Recoverable
pH	7.8	HF	0.01	0.01	S.U.	1		9040C	Total/NA
Temperature	21.3	HF	0.01	0.01	Degrees C	1		9040C	Total/NA
Corrosivity	NO	HF	0.01	0.01	NONE	1		9040C	Total/NA

Client Sample ID: QM-R-260714-061025

Lab Sample ID: 410-226639-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	2.9		1.0	0.50	mg/L	5		EPA 300.0 R2.1	Total/NA
Aluminum	28		25	12	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Client Sample ID: QM-R-260714-061025 (Continued)

Lab Sample ID: 410-226639-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.23	J	1.0	0.20	ug/L	1		6020B	Total
									Recoverable
Barium	24		2.0	0.75	ug/L	1		6020B	Total
									Recoverable
Calcium	100000		120	50	ug/L	1		6020B	Total
									Recoverable
Cobalt	0.79		0.50	0.16	ug/L	1		6020B	Total
									Recoverable
Iron	700		50	20	ug/L	1		6020B	Total
									Recoverable
Magnesium	16000		50	16	ug/L	1		6020B	Total
									Recoverable
Manganese	170		2.0	0.95	ug/L	1		6020B	Total
									Recoverable
Nickel	2.2		1.0	0.40	ug/L	1		6020B	Total
									Recoverable
Potassium	4400		200	65	ug/L	1		6020B	Total
									Recoverable
Selenium	0.63	J	1.0	0.28	ug/L	1		6020B	Total
									Recoverable
Silver	0.23	J	0.50	0.10	ug/L	1		6020B	Total
									Recoverable
Sodium	71000		200	90	ug/L	1		6020B	Total
									Recoverable
pH	8.0	HF	0.01	0.01	S.U.	1		9040C	Total/NA
Temperature	21.3	HF	0.01	0.01	Degrees C	1		9040C	Total/NA
Corrosivity	NO	HF	0.01	0.01	NONE	1		9040C	Total/NA

Client Sample ID: QM-R-265742-061025

Lab Sample ID: 410-226639-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.4	J	5.0	1.5	ug/L	1		8260D	Total/NA
Carbon disulfide	0.19	J	1.0	0.10	ug/L	1		8260D	Total/NA
DRO (C10-C28)	160		110	49	ug/L	1		8015D	Total/NA
Fluoride	2.9		1.0	0.50	mg/L	5		EPA 300.0 R2.1	Total/NA
Aluminum	18	J	25	12	ug/L	1		6020B	Total
									Recoverable
Barium	24		2.0	0.75	ug/L	1		6020B	Total
									Recoverable
Calcium	87000		120	50	ug/L	1		6020B	Total
									Recoverable
Cobalt	0.73		0.50	0.16	ug/L	1		6020B	Total
									Recoverable
Iron	610		50	20	ug/L	1		6020B	Total
									Recoverable
Magnesium	15000		50	16	ug/L	1		6020B	Total
									Recoverable
Manganese	130		2.0	0.95	ug/L	1		6020B	Total
									Recoverable
Nickel	1.2		1.0	0.40	ug/L	1		6020B	Total
									Recoverable
Potassium	4600		200	65	ug/L	1		6020B	Total
									Recoverable
Selenium	0.54	J	1.0	0.28	ug/L	1		6020B	Total
									Recoverable
Sodium	57000		200	90	ug/L	1		6020B	Total
									Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: Tetra Tech Inc

Job ID: 410-226639-1

Project/Site: Soil and Water Analysis - QL Frederick

Client Sample ID: QM-R-265742-061025 (Continued)

Lab Sample ID: 410-226639-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	6.3	J	10	4.0	ug/L	1		6020B	Total
									Recoverable
pH	7.9	HF	0.01	0.01	S.U.	1		9040C	Total/NA
Temperature	21.4	HF	0.01	0.01	Degrees C	1		9040C	Total/NA
Corrosivity	NO	HF	0.01	0.01	NONE	1		9040C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Client Sample ID: TB-061025

Lab Sample ID: 410-226639-1

Date Collected: 06/10/25 07:00

Matrix: Water

Date Received: 06/10/25 18:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.080		0.50	0.080	ug/L			06/13/25 14:46	1
1,1,1,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			06/13/25 14:46	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			06/13/25 14:46	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			06/13/25 14:46	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			06/13/25 14:46	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 14:46	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			06/13/25 14:46	1
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			06/13/25 14:46	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 14:46	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			06/13/25 14:46	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			06/13/25 14:46	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 14:46	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 14:46	1
2-Butanone	<1.0		5.0	1.0	ug/L			06/13/25 14:46	1
2-Hexanone	<2.0		5.0	2.0	ug/L			06/13/25 14:46	1
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			06/13/25 14:46	1
Acetone	<1.5		5.0	1.5	ug/L			06/13/25 14:46	1
Benzene	<0.10		0.50	0.10	ug/L			06/13/25 14:46	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			06/13/25 14:46	1
Bromoform	<0.30		1.0	0.30	ug/L			06/13/25 14:46	1
Bromomethane	<0.10		0.50	0.10	ug/L			06/13/25 14:46	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			06/13/25 14:46	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			06/13/25 14:46	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 14:46	1
Chloroethane	<0.10		0.50	0.10	ug/L			06/13/25 14:46	1
Chloroform	<0.090		0.50	0.090	ug/L			06/13/25 14:46	1
Chloromethane	<0.10		0.50	0.10	ug/L			06/13/25 14:46	1
cis-1,2-Dichloroethene	<0.080		0.50	0.080	ug/L			06/13/25 14:46	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			06/13/25 14:46	1
Cyclohexane	<0.10		0.50	0.10	ug/L			06/13/25 14:46	1
Dibromochloromethane	<0.080	cn	0.50	0.080	ug/L			06/13/25 14:46	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			06/13/25 14:46	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			06/13/25 14:46	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			06/13/25 14:46	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			06/13/25 14:46	1
Methyl acetate	<0.20		1.0	0.20	ug/L			06/13/25 14:46	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			06/13/25 14:46	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			06/13/25 14:46	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			06/13/25 14:46	1
Styrene	<0.070		0.50	0.070	ug/L			06/13/25 14:46	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			06/13/25 14:46	1
Toluene	<0.080		0.50	0.080	ug/L			06/13/25 14:46	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			06/13/25 14:46	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			06/13/25 14:46	1
Trichloroethene	<0.080		0.50	0.080	ug/L			06/13/25 14:46	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			06/13/25 14:46	1
Vinyl chloride	<0.020		0.035	0.020	ug/L			06/13/25 14:46	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			06/13/25 14:46	1

Eurolins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Client Sample ID: TB-061025

Lab Sample ID: 410-226639-1

Date Collected: 06/10/25 07:00

Matrix: Water

Date Received: 06/10/25 18:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		80 - 120		06/13/25 14:46	1
4-Bromofluorobenzene (Surr)	93		80 - 120		06/13/25 14:46	1
Dibromofluoromethane (Surr)	113		80 - 120		06/13/25 14:46	1
Toluene-d8 (Surr)	100		80 - 120		06/13/25 14:46	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			06/12/25 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid) (1C)	96		63 - 135		06/12/25 17:11	1

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	<0.0095		0.019	0.0095	ug/L		06/12/25 09:22	06/13/25 05:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	112		46 - 136	06/12/25 09:22	06/13/25 05:43	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	112		46 - 136	06/12/25 09:22	06/13/25 05:43	1

Client Sample ID: QM-R-SV27472LM-061025

Lab Sample ID: 410-226639-2

Date Collected: 06/10/25 10:25

Matrix: Water

Date Received: 06/10/25 18:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.080		0.50	0.080	ug/L			06/13/25 15:08	1
1,1,2,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			06/13/25 15:08	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			06/13/25 15:08	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			06/13/25 15:08	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			06/13/25 15:08	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 15:08	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			06/13/25 15:08	1
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			06/13/25 15:08	1
1,2-Dichlorobenzene	0.54		0.50	0.070	ug/L			06/13/25 15:08	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			06/13/25 15:08	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			06/13/25 15:08	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 15:08	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 15:08	1
2-Butanone	<1.0		5.0	1.0	ug/L			06/13/25 15:08	1
2-Hexanone	<2.0		5.0	2.0	ug/L			06/13/25 15:08	1
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			06/13/25 15:08	1
Acetone	2.6 J		5.0	1.5	ug/L			06/13/25 15:08	1
Benzene	0.22 J		0.50	0.10	ug/L			06/13/25 15:08	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			06/13/25 15:08	1
Bromoform	<0.30		1.0	0.30	ug/L			06/13/25 15:08	1
Bromomethane	<0.10		0.50	0.10	ug/L			06/13/25 15:08	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			06/13/25 15:08	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			06/13/25 15:08	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 15:08	1
Chloroethane	<0.10		0.50	0.10	ug/L			06/13/25 15:08	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Client Sample ID: QM-R-SV27472LM-061025

Lab Sample ID: 410-226639-2

Date Collected: 06/10/25 10:25

Matrix: Water

Date Received: 06/10/25 18:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.090		0.50	0.090	ug/L			06/13/25 15:08	1
Chloromethane	<0.10		0.50	0.10	ug/L			06/13/25 15:08	1
cis-1,2-Dichloroethene	<0.080		0.50	0.080	ug/L			06/13/25 15:08	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			06/13/25 15:08	1
Cyclohexane	<0.10		0.50	0.10	ug/L			06/13/25 15:08	1
Dibromochloromethane	<0.080	cn	0.50	0.080	ug/L			06/13/25 15:08	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			06/13/25 15:08	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			06/13/25 15:08	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			06/13/25 15:08	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			06/13/25 15:08	1
Methyl acetate	<0.20		1.0	0.20	ug/L			06/13/25 15:08	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			06/13/25 15:08	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			06/13/25 15:08	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			06/13/25 15:08	1
Styrene	<0.070		0.50	0.070	ug/L			06/13/25 15:08	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			06/13/25 15:08	1
Toluene	0.083	J	0.50	0.080	ug/L			06/13/25 15:08	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			06/13/25 15:08	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			06/13/25 15:08	1
Trichloroethene	<0.080		0.50	0.080	ug/L			06/13/25 15:08	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			06/13/25 15:08	1
Vinyl chloride	<0.020		0.035	0.020	ug/L			06/13/25 15:08	1
Xylenes, Total	0.10	J	1.0	0.070	ug/L			06/13/25 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		80 - 120		06/13/25 15:08	1
4-Bromofluorobenzene (Surr)	91		80 - 120		06/13/25 15:08	1
Dibromofluoromethane (Surr)	111		80 - 120		06/13/25 15:08	1
Toluene-d8 (Surr)	100		80 - 120		06/13/25 15:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.010		0.050	0.010	ug/L		06/16/25 07:29	06/16/25 20:08	1
Acenaphthylene	<0.010		0.050	0.010	ug/L		06/16/25 07:29	06/16/25 20:08	1
Anthracene	<0.010		0.050	0.010	ug/L		06/16/25 07:29	06/16/25 20:08	1
Benzo[a]anthracene	<0.010		0.050	0.010	ug/L		06/16/25 07:29	06/16/25 20:08	1
Benzo[a]pyrene	<0.010		0.050	0.010	ug/L		06/16/25 07:29	06/16/25 20:08	1
Benzo[b]fluoranthene	<0.047		0.050	0.047	ug/L		06/16/25 07:29	06/16/25 20:08	1
Benzo[g,h,i]perylene	<0.010		0.050	0.010	ug/L		06/16/25 07:29	06/16/25 20:08	1
Benzo[k]fluoranthene	<0.010		0.050	0.010	ug/L		06/16/25 07:29	06/16/25 20:08	1
Chrysene	<0.025		0.050	0.025	ug/L		06/16/25 07:29	06/16/25 20:08	1
Dibenz(a,h)anthracene	<0.020		0.050	0.020	ug/L		06/16/25 07:29	06/16/25 20:08	1
Fluoranthene	<0.023		0.050	0.023	ug/L		06/16/25 07:29	06/16/25 20:08	1
Fluorene	<0.010		0.050	0.010	ug/L		06/16/25 07:29	06/16/25 20:08	1
Indeno[1,2,3-cd]pyrene	<0.020		0.050	0.020	ug/L		06/16/25 07:29	06/16/25 20:08	1
Naphthalene	<0.069		0.071	0.069	ug/L		06/16/25 07:29	06/16/25 20:08	1
Phenanthrene	<0.030		0.071	0.030	ug/L		06/16/25 07:29	06/16/25 20:08	1
Pyrene	<0.021		0.050	0.021	ug/L		06/16/25 07:29	06/16/25 20:08	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Client Sample ID: QM-R-SV27472LM-061025

Lab Sample ID: 410-226639-2

Date Collected: 06/10/25 10:25

Matrix: Water

Date Received: 06/10/25 18:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	64		10 - 121	06/16/25 07:29	06/16/25 20:08	1
1-Methylnaphthalene-d10 (Surr)	102		30 - 127	06/16/25 07:29	06/16/25 20:08	1
Fluoranthene-d10 (Surr)	79		34 - 130	06/16/25 07:29	06/16/25 20:08	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L	-		06/12/25 21:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid) (1C)	96		63 - 135		06/12/25 21:26	1

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	<0.0096		0.019	0.0096	ug/L	-	06/12/25 09:22	06/13/25 06:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	95		46 - 136	06/12/25 09:22	06/13/25 06:00	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	110		46 - 136	06/12/25 09:22	06/13/25 06:00	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	<45	*+ *1 cn	100	45	ug/L	-	06/12/25 07:27	06/13/25 08:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o- terphenyl (Surr)	87		32 - 125	06/12/25 07:27	06/13/25 08:44	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	<0.0076		0.0095	0.0076	ug/L	-	06/14/25 09:32	06/16/25 10:11	1
PCB-1221 (1C)	<0.0076		0.0095	0.0076	ug/L	-	06/14/25 09:32	06/16/25 10:11	1
PCB-1232 (1C)	<0.0076		0.0095	0.0076	ug/L	-	06/14/25 09:32	06/16/25 10:11	1
PCB-1242 (1C)	<0.0076		0.0095	0.0076	ug/L	-	06/14/25 09:32	06/16/25 10:11	1
PCB-1248 (1C)	<0.0076		0.0095	0.0076	ug/L	-	06/14/25 09:32	06/16/25 10:11	1
PCB-1254 (1C)	<0.0047		0.0095	0.0047	ug/L	-	06/14/25 09:32	06/16/25 10:11	1
PCB-1260 (1C)	<0.0047		0.0095	0.0047	ug/L	-	06/14/25 09:32	06/16/25 10:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	111		46 - 161	06/14/25 09:32	06/16/25 10:11	1
DCB Decachlorobiphenyl (Surr) (2C)	102		46 - 161	06/14/25 09:32	06/16/25 10:11	1
Tetrachloro-m-xylene (1C)	72		41 - 146	06/14/25 09:32	06/16/25 10:11	1
Tetrachloro-m-xylene (2C)	70		41 - 146	06/14/25 09:32	06/16/25 10:11	1

Method: TAL SOP PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0076		0.0095	0.0076	ug/L	-		06/16/25 10:11	1
PCB-1221	<0.0076		0.0095	0.0076	ug/L	-		06/16/25 10:11	1
PCB-1232	<0.0076		0.0095	0.0076	ug/L	-		06/16/25 10:11	1
PCB-1242	<0.0076		0.0095	0.0076	ug/L	-		06/16/25 10:11	1
PCB-1248	<0.0076		0.0095	0.0076	ug/L	-		06/16/25 10:11	1
PCB-1254	<0.0047		0.0095	0.0047	ug/L	-		06/16/25 10:11	1
PCB-1260	<0.0047		0.0095	0.0047	ug/L	-		06/16/25 10:11	1
Polychlorinated biphenyls, Total	<0.0076		0.0095	0.0076	ug/L	-		06/16/25 10:11	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Client Sample ID: QM-R-SV27472LM-061025

Lab Sample ID: 410-226639-2

Date Collected: 06/10/25 10:25

Matrix: Water

Date Received: 06/10/25 18:15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.69		0.20	0.10	mg/L			06/16/25 19:21	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	54		25	12	ug/L		06/13/25 07:25	06/16/25 19:47	1
Antimony	0.40	J	1.0	0.20	ug/L		06/13/25 07:25	06/16/25 19:47	1
Arsenic	<0.68		2.0	0.68	ug/L		06/13/25 07:25	06/16/25 19:47	1
Barium	48		2.0	0.75	ug/L		06/13/25 07:25	06/16/25 19:47	1
Beryllium	<0.12		0.50	0.12	ug/L		06/13/25 07:25	06/16/25 19:47	1
Cadmium	<0.15		0.50	0.15	ug/L		06/13/25 07:25	06/16/25 19:47	1
Calcium	93000		120	50	ug/L		06/13/25 07:25	06/16/25 19:47	1
Chromium	<0.55		2.0	0.55	ug/L		06/13/25 07:25	06/16/25 19:47	1
Cobalt	0.37	J	0.50	0.16	ug/L		06/13/25 07:25	06/16/25 19:47	1
Copper	<0.85		1.0	0.85	ug/L		06/13/25 07:25	06/16/25 19:47	1
Iron	84		50	20	ug/L		06/13/25 07:25	06/16/25 19:47	1
Lead	<0.12		0.50	0.12	ug/L		06/13/25 07:25	06/16/25 19:47	1
Magnesium	11000		50	16	ug/L		06/13/25 07:25	06/16/25 19:47	1
Manganese	27	B	2.0	0.95	ug/L		06/13/25 07:25	06/16/25 19:47	1
Nickel	0.88	J	1.0	0.40	ug/L		06/13/25 07:25	06/16/25 19:47	1
Potassium	2700		200	65	ug/L		06/13/25 07:25	06/16/25 19:47	1
Selenium	0.67	J	1.0	0.28	ug/L		06/13/25 07:25	06/16/25 19:47	1
Silver	<0.10		0.50	0.10	ug/L		06/13/25 07:25	06/16/25 19:47	1
Sodium	30000		200	90	ug/L		06/13/25 07:25	06/16/25 19:47	1
Thallium	<0.13		0.50	0.13	ug/L		06/13/25 07:25	06/16/25 19:47	1
Zinc	23		10	4.0	ug/L		06/13/25 07:25	06/16/25 19:47	1
Vanadium	<0.79		4.0	0.79	ug/L		06/13/25 07:25	06/16/25 19:47	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.087		0.20	0.087	ug/L		06/12/25 07:21	06/12/25 16:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	7.9	HF	0.01	0.01	S.U.			06/12/25 15:56	1
Temperature (SW846 9040C)	21.4	HF	0.01	0.01	Degrees C			06/12/25 15:56	1
Corrosivity (SW846 9040C)	NO	HF	0.01	0.01	NONE			06/12/25 15:56	1
Cyanide, Free (OI CORP OIA-1677)	0.022		0.0060	0.0050	mg/L			06/13/25 12:27	1

Client Sample ID: QM-R-SV23192L-061025

Lab Sample ID: 410-226639-3

Date Collected: 06/10/25 10:45

Matrix: Water

Date Received: 06/10/25 18:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.080		0.50	0.080	ug/L			06/13/25 15:31	1
1,1,2,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			06/13/25 15:31	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			06/13/25 15:31	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			06/13/25 15:31	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			06/13/25 15:31	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 15:31	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			06/13/25 15:31	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Client Sample ID: QM-R-SV23192L-061025

Lab Sample ID: 410-226639-3

Date Collected: 06/10/25 10:45

Matrix: Water

Date Received: 06/10/25 18:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			06/13/25 15:31	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 15:31	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			06/13/25 15:31	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			06/13/25 15:31	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 15:31	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 15:31	1
2-Butanone	<1.0		5.0	1.0	ug/L			06/13/25 15:31	1
2-Hexanone	<2.0		5.0	2.0	ug/L			06/13/25 15:31	1
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			06/13/25 15:31	1
Acetone	<1.5		5.0	1.5	ug/L			06/13/25 15:31	1
Benzene	0.35	J	0.50	0.10	ug/L			06/13/25 15:31	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			06/13/25 15:31	1
Bromoform	<0.30		1.0	0.30	ug/L			06/13/25 15:31	1
Bromomethane	<0.10		0.50	0.10	ug/L			06/13/25 15:31	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			06/13/25 15:31	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			06/13/25 15:31	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 15:31	1
Chloroethane	<0.10		0.50	0.10	ug/L			06/13/25 15:31	1
Chloroform	<0.090		0.50	0.090	ug/L			06/13/25 15:31	1
Chloromethane	<0.10		0.50	0.10	ug/L			06/13/25 15:31	1
cis-1,2-Dichloroethene	<0.080		0.50	0.080	ug/L			06/13/25 15:31	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			06/13/25 15:31	1
Cyclohexane	<0.10		0.50	0.10	ug/L			06/13/25 15:31	1
Dibromochloromethane	<0.080	cn	0.50	0.080	ug/L			06/13/25 15:31	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			06/13/25 15:31	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			06/13/25 15:31	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			06/13/25 15:31	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			06/13/25 15:31	1
Methyl acetate	<0.20		1.0	0.20	ug/L			06/13/25 15:31	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			06/13/25 15:31	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			06/13/25 15:31	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			06/13/25 15:31	1
Styrene	<0.070		0.50	0.070	ug/L			06/13/25 15:31	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			06/13/25 15:31	1
Toluene	0.11	J	0.50	0.080	ug/L			06/13/25 15:31	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			06/13/25 15:31	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			06/13/25 15:31	1
Trichloroethene	<0.080		0.50	0.080	ug/L			06/13/25 15:31	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			06/13/25 15:31	1
Vinyl chloride	<0.020		0.035	0.020	ug/L			06/13/25 15:31	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			06/13/25 15:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		80 - 120		06/13/25 15:31	1
4-Bromofluorobenzene (Surr)	93		80 - 120		06/13/25 15:31	1
Dibromofluoromethane (Surr)	110		80 - 120		06/13/25 15:31	1
Toluene-d8 (Surr)	101		80 - 120		06/13/25 15:31	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Client Sample ID: QM-R-SV23192L-061025

Lab Sample ID: 410-226639-3

Date Collected: 06/10/25 10:45

Matrix: Water

Date Received: 06/10/25 18:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.010		0.051	0.010	ug/L		06/16/25 07:29	06/16/25 20:29	1
Acenaphthylene	<0.010		0.051	0.010	ug/L		06/16/25 07:29	06/16/25 20:29	1
Anthracene	<0.010		0.051	0.010	ug/L		06/16/25 07:29	06/16/25 20:29	1
Benzo[a]anthracene	<0.010		0.051	0.010	ug/L		06/16/25 07:29	06/16/25 20:29	1
Benzo[a]pyrene	<0.010		0.051	0.010	ug/L		06/16/25 07:29	06/16/25 20:29	1
Benzo[b]fluoranthene	<0.048		0.051	0.048	ug/L		06/16/25 07:29	06/16/25 20:29	1
Benzo[g,h,i]perylene	<0.010		0.051	0.010	ug/L		06/16/25 07:29	06/16/25 20:29	1
Benzo[k]fluoranthene	<0.010		0.051	0.010	ug/L		06/16/25 07:29	06/16/25 20:29	1
Chrysene	<0.025		0.051	0.025	ug/L		06/16/25 07:29	06/16/25 20:29	1
Dibenz[a,h]anthracene	<0.020		0.051	0.020	ug/L		06/16/25 07:29	06/16/25 20:29	1
Fluoranthene	<0.023		0.051	0.023	ug/L		06/16/25 07:29	06/16/25 20:29	1
Fluorene	<0.010		0.051	0.010	ug/L		06/16/25 07:29	06/16/25 20:29	1
Indeno[1,2,3-cd]pyrene	<0.020		0.051	0.020	ug/L		06/16/25 07:29	06/16/25 20:29	1
Naphthalene	<0.069		0.071	0.069	ug/L		06/16/25 07:29	06/16/25 20:29	1
Phenanthrene	<0.031		0.071	0.031	ug/L		06/16/25 07:29	06/16/25 20:29	1
Pyrene	<0.021		0.051	0.021	ug/L		06/16/25 07:29	06/16/25 20:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	61		10 - 121	06/16/25 07:29	06/16/25 20:29	1
1-Methylnaphthalene-d10 (Surr)	96		30 - 127	06/16/25 07:29	06/16/25 20:29	1
Fluoranthene-d10 (Surr)	78		34 - 130	06/16/25 07:29	06/16/25 20:29	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			06/12/25 21:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid) (1C)	96		63 - 135		06/12/25 21:51	1

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	<0.0095		0.019	0.0095	ug/L		06/12/25 09:22	06/13/25 06:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	125		46 - 136	06/12/25 09:22	06/13/25 06:17	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	109		46 - 136	06/12/25 09:22	06/13/25 06:17	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	<46	*+ *1 cn	100	46	ug/L		06/12/25 07:27	06/13/25 09:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-terphenyl (Surr)	88		32 - 125	06/12/25 07:27	06/13/25 09:07	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	<0.0075		0.0094	0.0075	ug/L		06/14/25 09:32	06/16/25 10:24	1
PCB-1221 (1C)	<0.0075		0.0094	0.0075	ug/L		06/14/25 09:32	06/16/25 10:24	1
PCB-1232 (1C)	<0.0075		0.0094	0.0075	ug/L		06/14/25 09:32	06/16/25 10:24	1
PCB-1242 (1C)	<0.0075		0.0094	0.0075	ug/L		06/14/25 09:32	06/16/25 10:24	1
PCB-1248 (1C)	<0.0075		0.0094	0.0075	ug/L		06/14/25 09:32	06/16/25 10:24	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Client Sample ID: QM-R-SV23192L-061025

Lab Sample ID: 410-226639-3

Date Collected: 06/10/25 10:45

Matrix: Water

Date Received: 06/10/25 18:15

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254 (1C)	<0.0047		0.0094	0.0047	ug/L		06/14/25 09:32	06/16/25 10:24	1
PCB-1260 (1C)	<0.0047		0.0094	0.0047	ug/L		06/14/25 09:32	06/16/25 10:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	112		46 - 161				06/14/25 09:32	06/16/25 10:24	1
DCB Decachlorobiphenyl (Surr) (2C)	104		46 - 161				06/14/25 09:32	06/16/25 10:24	1
Tetrachloro-m-xylene (1C)	77		41 - 146				06/14/25 09:32	06/16/25 10:24	1
Tetrachloro-m-xylene (2C)	72		41 - 146				06/14/25 09:32	06/16/25 10:24	1

Method: TAL SOP PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0075		0.0094	0.0075	ug/L			06/16/25 10:24	1
PCB-1221	<0.0075		0.0094	0.0075	ug/L			06/16/25 10:24	1
PCB-1232	<0.0075		0.0094	0.0075	ug/L			06/16/25 10:24	1
PCB-1242	<0.0075		0.0094	0.0075	ug/L			06/16/25 10:24	1
PCB-1248	<0.0075		0.0094	0.0075	ug/L			06/16/25 10:24	1
PCB-1254	<0.0047		0.0094	0.0047	ug/L			06/16/25 10:24	1
PCB-1260	<0.0047		0.0094	0.0047	ug/L			06/16/25 10:24	1
Polychlorinated biphenyls, Total	<0.0075		0.0094	0.0075	ug/L			06/16/25 10:24	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.82		0.20	0.10	mg/L			06/17/25 02:26	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	78		25	12	ug/L		06/13/25 21:45	06/16/25 15:32	1
Antimony	<0.20		1.0	0.20	ug/L		06/13/25 21:45	06/14/25 09:15	1
Arsenic	<0.68		2.0	0.68	ug/L		06/13/25 21:45	06/14/25 09:15	1
Barium	47		2.0	0.75	ug/L		06/13/25 21:45	06/14/25 09:15	1
Beryllium	<0.12		0.50	0.12	ug/L		06/13/25 21:45	06/14/25 09:15	1
Cadmium	<0.15		0.50	0.15	ug/L		06/13/25 21:45	06/14/25 09:15	1
Calcium	93000		120	50	ug/L		06/13/25 21:45	06/16/25 15:32	1
Chromium	<0.55		2.0	0.55	ug/L		06/13/25 21:45	06/14/25 09:15	1
Cobalt	0.18 J		0.50	0.16	ug/L		06/13/25 21:45	06/16/25 15:32	1
Copper	<0.85		1.0	0.85	ug/L		06/13/25 21:45	06/14/25 09:15	1
Iron	120		50	20	ug/L		06/13/25 21:45	06/14/25 09:15	1
Lead	<0.12		0.50	0.12	ug/L		06/13/25 21:45	06/14/25 09:15	1
Magnesium	11000		50	16	ug/L		06/13/25 21:45	06/14/25 09:15	1
Manganese	29		2.0	0.95	ug/L		06/13/25 21:45	06/14/25 09:15	1
Nickel	<0.40		1.0	0.40	ug/L		06/13/25 21:45	06/16/25 15:32	1
Potassium	2400		200	65	ug/L		06/13/25 21:45	06/14/25 09:15	1
Selenium	0.30 J		1.0	0.28	ug/L		06/13/25 21:45	06/14/25 09:15	1
Silver	<0.10		0.50	0.10	ug/L		06/13/25 21:45	06/14/25 09:15	1
Sodium	21000		200	90	ug/L		06/13/25 21:45	06/14/25 09:15	1
Thallium	<0.13		0.50	0.13	ug/L		06/13/25 21:45	06/14/25 09:15	1
Zinc	4.6 J		10	4.0	ug/L		06/13/25 21:45	06/14/25 09:15	1
Vanadium	<0.79		4.0	0.79	ug/L		06/13/25 21:45	06/14/25 09:15	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Client Sample ID: QM-R-SV23192L-061025

Lab Sample ID: 410-226639-3

Date Collected: 06/10/25 10:45

Matrix: Water

Date Received: 06/10/25 18:15

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.087		0.20	0.087	ug/L		06/12/25 07:21	06/12/25 16:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	7.8	HF	0.01	0.01	S.U.			06/12/25 15:56	1
Temperature (SW846 9040C)	21.4	HF	0.01	0.01	Degrees C			06/12/25 15:56	1
Corrosivity (SW846 9040C)	NO	HF	0.01	0.01	NONE			06/12/25 15:56	1
Cyanide, Free (OI CORP OIA-1677)	<0.0050		0.0060	0.0050	mg/L			06/13/25 12:22	1

Client Sample ID: QM-R-SV27454LM-061025

Lab Sample ID: 410-226639-4

Date Collected: 06/10/25 11:10

Matrix: Water

Date Received: 06/10/25 18:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.080		0.50	0.080	ug/L			06/13/25 15:55	1
1,1,2,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			06/13/25 15:55	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			06/13/25 15:55	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			06/13/25 15:55	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			06/13/25 15:55	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 15:55	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			06/13/25 15:55	1
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			06/13/25 15:55	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 15:55	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			06/13/25 15:55	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			06/13/25 15:55	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 15:55	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 15:55	1
2-Butanone	<1.0		5.0	1.0	ug/L			06/13/25 15:55	1
2-Hexanone	<2.0		5.0	2.0	ug/L			06/13/25 15:55	1
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			06/13/25 15:55	1
Acetone	<1.5		5.0	1.5	ug/L			06/13/25 15:55	1
Benzene	<0.10		0.50	0.10	ug/L			06/13/25 15:55	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			06/13/25 15:55	1
Bromoform	<0.30		1.0	0.30	ug/L			06/13/25 15:55	1
Bromomethane	<0.10		0.50	0.10	ug/L			06/13/25 15:55	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			06/13/25 15:55	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			06/13/25 15:55	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 15:55	1
Chloroethane	<0.10		0.50	0.10	ug/L			06/13/25 15:55	1
Chloroform	<0.090		0.50	0.090	ug/L			06/13/25 15:55	1
Chloromethane	<0.10		0.50	0.10	ug/L			06/13/25 15:55	1
cis-1,2-Dichloroethene	<0.080		0.50	0.080	ug/L			06/13/25 15:55	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			06/13/25 15:55	1
Cyclohexane	<0.10		0.50	0.10	ug/L			06/13/25 15:55	1
Dibromochloromethane	<0.080	cn	0.50	0.080	ug/L			06/13/25 15:55	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			06/13/25 15:55	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			06/13/25 15:55	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			06/13/25 15:55	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			06/13/25 15:55	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Client Sample ID: QM-R-SV27454LM-061025

Lab Sample ID: 410-226639-4

Date Collected: 06/10/25 11:10

Matrix: Water

Date Received: 06/10/25 18:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	<0.20		1.0	0.20	ug/L			06/13/25 15:55	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			06/13/25 15:55	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			06/13/25 15:55	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			06/13/25 15:55	1
Styrene	<0.070		0.50	0.070	ug/L			06/13/25 15:55	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			06/13/25 15:55	1
Toluene	1.5		0.50	0.080	ug/L			06/13/25 15:55	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			06/13/25 15:55	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			06/13/25 15:55	1
Trichloroethene	<0.080		0.50	0.080	ug/L			06/13/25 15:55	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			06/13/25 15:55	1
Vinyl chloride	<0.020		0.035	0.020	ug/L			06/13/25 15:55	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			06/13/25 15:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		80 - 120		06/13/25 15:55	1
4-Bromofluorobenzene (Surr)	91		80 - 120		06/13/25 15:55	1
Dibromofluoromethane (Surr)	111		80 - 120		06/13/25 15:55	1
Toluene-d8 (Surr)	100		80 - 120		06/13/25 15:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.010		0.051	0.010	ug/L		06/16/25 07:29	06/16/25 20:50	1
Acenaphthylene	<0.010		0.051	0.010	ug/L		06/16/25 07:29	06/16/25 20:50	1
Anthracene	<0.010		0.051	0.010	ug/L		06/16/25 07:29	06/16/25 20:50	1
Benzo[a]anthracene	<0.010		0.051	0.010	ug/L		06/16/25 07:29	06/16/25 20:50	1
Benzo[a]pyrene	<0.010		0.051	0.010	ug/L		06/16/25 07:29	06/16/25 20:50	1
Benzo[b]fluoranthene	<0.048		0.051	0.048	ug/L		06/16/25 07:29	06/16/25 20:50	1
Benzo[g,h,i]perylene	<0.010		0.051	0.010	ug/L		06/16/25 07:29	06/16/25 20:50	1
Benzo[k]fluoranthene	<0.010		0.051	0.010	ug/L		06/16/25 07:29	06/16/25 20:50	1
Chrysene	<0.026		0.051	0.026	ug/L		06/16/25 07:29	06/16/25 20:50	1
Dibenz(a,h)anthracene	<0.020		0.051	0.020	ug/L		06/16/25 07:29	06/16/25 20:50	1
Fluoranthene	<0.024		0.051	0.024	ug/L		06/16/25 07:29	06/16/25 20:50	1
Fluorene	<0.010		0.051	0.010	ug/L		06/16/25 07:29	06/16/25 20:50	1
Indeno[1,2,3-cd]pyrene	<0.020		0.051	0.020	ug/L		06/16/25 07:29	06/16/25 20:50	1
Naphthalene	<0.070		0.072	0.070	ug/L		06/16/25 07:29	06/16/25 20:50	1
Phenanthrene	<0.031		0.072	0.031	ug/L		06/16/25 07:29	06/16/25 20:50	1
Pyrene	<0.022		0.051	0.022	ug/L		06/16/25 07:29	06/16/25 20:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	48		10 - 121	06/16/25 07:29	06/16/25 20:50	1
1-Methylnaphthalene-d10 (Surr)	95		30 - 127	06/16/25 07:29	06/16/25 20:50	1
Fluoranthene-d10 (Surr)	84		34 - 130	06/16/25 07:29	06/16/25 20:50	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23	cn	50	23	ug/L			06/12/25 22:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid) (1C)	94	cn	63 - 135		06/12/25 22:16	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Client Sample ID: QM-R-SV27454LM-061025

Lab Sample ID: 410-226639-4

Date Collected: 06/10/25 11:10

Matrix: Water

Date Received: 06/10/25 18:15

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	<0.0095		0.019	0.0095	ug/L		06/12/25 09:22	06/13/25 06:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	116		46 - 136				06/12/25 09:22	06/13/25 06:34	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	115		46 - 136				06/12/25 09:22	06/13/25 06:34	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	<46	*+ *1 cn	100	46	ug/L		06/12/25 07:27	06/13/25 09:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-terphenyl (Surr)	85		32 - 125				06/12/25 07:27	06/13/25 09:30	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	<0.0076		0.0094	0.0076	ug/L		06/14/25 09:32	06/16/25 10:37	1
PCB-1221 (1C)	<0.0076		0.0094	0.0076	ug/L		06/14/25 09:32	06/16/25 10:37	1
PCB-1232 (1C)	<0.0076		0.0094	0.0076	ug/L		06/14/25 09:32	06/16/25 10:37	1
PCB-1242 (1C)	<0.0076		0.0094	0.0076	ug/L		06/14/25 09:32	06/16/25 10:37	1
PCB-1248 (1C)	<0.0076		0.0094	0.0076	ug/L		06/14/25 09:32	06/16/25 10:37	1
PCB-1254 (1C)	<0.0047		0.0094	0.0047	ug/L		06/14/25 09:32	06/16/25 10:37	1
PCB-1260 (1C)	<0.0047		0.0094	0.0047	ug/L		06/14/25 09:32	06/16/25 10:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	115		46 - 161				06/14/25 09:32	06/16/25 10:37	1
DCB Decachlorobiphenyl (Surr) (2C)	106		46 - 161				06/14/25 09:32	06/16/25 10:37	1
Tetrachloro-m-xylene (1C)	80		41 - 146				06/14/25 09:32	06/16/25 10:37	1
Tetrachloro-m-xylene (2C)	75		41 - 146				06/14/25 09:32	06/16/25 10:37	1

Method: TAL SOP PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0076		0.0094	0.0076	ug/L			06/16/25 10:37	1
PCB-1221	<0.0076		0.0094	0.0076	ug/L			06/16/25 10:37	1
PCB-1232	<0.0076		0.0094	0.0076	ug/L			06/16/25 10:37	1
PCB-1242	<0.0076		0.0094	0.0076	ug/L			06/16/25 10:37	1
PCB-1248	<0.0076		0.0094	0.0076	ug/L			06/16/25 10:37	1
PCB-1254	<0.0047		0.0094	0.0047	ug/L			06/16/25 10:37	1
PCB-1260	<0.0047		0.0094	0.0047	ug/L			06/16/25 10:37	1
Polychlorinated biphenyls, Total	<0.0076		0.0094	0.0076	ug/L			06/16/25 10:37	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.34		0.20	0.10	mg/L			06/16/25 19:12	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	310		25	12	ug/L		06/13/25 07:25	06/16/25 19:49	1
Antimony	<0.20		1.0	0.20	ug/L		06/13/25 07:25	06/16/25 19:49	1
Arsenic	<0.68		2.0	0.68	ug/L		06/13/25 07:25	06/16/25 19:49	1
Barium	45		2.0	0.75	ug/L		06/13/25 07:25	06/16/25 19:49	1
Beryllium	<0.12		0.50	0.12	ug/L		06/13/25 07:25	06/16/25 19:49	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Client Sample ID: QM-R-SV27454LM-061025

Lab Sample ID: 410-226639-4

Date Collected: 06/10/25 11:10

Matrix: Water

Date Received: 06/10/25 18:15

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.15		0.50	0.15	ug/L		06/13/25 07:25	06/16/25 19:49	1
Calcium	88000		120	50	ug/L		06/13/25 07:25	06/16/25 19:49	1
Chromium	<0.55		2.0	0.55	ug/L		06/13/25 07:25	06/16/25 19:49	1
Cobalt	0.60		0.50	0.16	ug/L		06/13/25 07:25	06/16/25 19:49	1
Copper	<0.85		1.0	0.85	ug/L		06/13/25 07:25	06/16/25 19:49	1
Iron	270		50	20	ug/L		06/13/25 07:25	06/16/25 19:49	1
Lead	0.25	J	0.50	0.12	ug/L		06/13/25 07:25	06/16/25 19:49	1
Magnesium	9500		50	16	ug/L		06/13/25 07:25	06/16/25 19:49	1
Manganese	94	B	2.0	0.95	ug/L		06/13/25 07:25	06/16/25 19:49	1
Nickel	0.56	J	1.0	0.40	ug/L		06/13/25 07:25	06/16/25 19:49	1
Potassium	2200		200	65	ug/L		06/13/25 07:25	06/16/25 19:49	1
Selenium	0.33	J	1.0	0.28	ug/L		06/13/25 07:25	06/16/25 19:49	1
Silver	<0.10		0.50	0.10	ug/L		06/13/25 07:25	06/16/25 19:49	1
Sodium	10000		200	90	ug/L		06/13/25 07:25	06/16/25 19:49	1
Thallium	<0.13		0.50	0.13	ug/L		06/13/25 07:25	06/16/25 19:49	1
Zinc	<4.0		10	4.0	ug/L		06/13/25 07:25	06/16/25 19:49	1
Vanadium	0.90	J	4.0	0.79	ug/L		06/13/25 07:25	06/16/25 19:49	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.087		0.20	0.087	ug/L		06/12/25 07:21	06/12/25 16:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	7.8	HF	0.01	0.01	S.U.			06/12/25 15:56	1
Temperature (SW846 9040C)	21.3	HF	0.01	0.01	Degrees C			06/12/25 15:56	1
Corrosivity (SW846 9040C)	NO	HF	0.01	0.01	NONE			06/12/25 15:56	1
Cyanide, Free (OI CORP OIA-1677)	<0.0050		0.0060	0.0050	mg/L			06/13/25 12:20	1

Client Sample ID: QM-R-260714-061025

Lab Sample ID: 410-226639-5

Date Collected: 06/10/25 10:45

Matrix: Water

Date Received: 06/10/25 18:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.080		0.50	0.080	ug/L			06/13/25 16:16	1
1,1,2,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			06/13/25 16:16	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			06/13/25 16:16	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			06/13/25 16:16	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			06/13/25 16:16	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 16:16	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			06/13/25 16:16	1
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			06/13/25 16:16	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 16:16	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			06/13/25 16:16	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			06/13/25 16:16	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 16:16	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 16:16	1
2-Butanone	<1.0		5.0	1.0	ug/L			06/13/25 16:16	1
2-Hexanone	<2.0		5.0	2.0	ug/L			06/13/25 16:16	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Client Sample ID: QM-R-260714-061025

Lab Sample ID: 410-226639-5

Date Collected: 06/10/25 10:45

Matrix: Water

Date Received: 06/10/25 18:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			06/13/25 16:16	1
Acetone	<1.5		5.0	1.5	ug/L			06/13/25 16:16	1
Benzene	<0.10		0.50	0.10	ug/L			06/13/25 16:16	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			06/13/25 16:16	1
Bromoform	<0.30		1.0	0.30	ug/L			06/13/25 16:16	1
Bromomethane	<0.10		0.50	0.10	ug/L			06/13/25 16:16	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			06/13/25 16:16	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			06/13/25 16:16	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 16:16	1
Chloroethane	<0.10		0.50	0.10	ug/L			06/13/25 16:16	1
Chloroform	<0.090		0.50	0.090	ug/L			06/13/25 16:16	1
Chloromethane	<0.10		0.50	0.10	ug/L			06/13/25 16:16	1
cis-1,2-Dichloroethene	<0.080		0.50	0.080	ug/L			06/13/25 16:16	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			06/13/25 16:16	1
Cyclohexane	<0.10		0.50	0.10	ug/L			06/13/25 16:16	1
Dibromochloromethane	<0.080	cn	0.50	0.080	ug/L			06/13/25 16:16	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			06/13/25 16:16	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			06/13/25 16:16	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			06/13/25 16:16	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			06/13/25 16:16	1
Methyl acetate	<0.20		1.0	0.20	ug/L			06/13/25 16:16	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			06/13/25 16:16	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			06/13/25 16:16	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			06/13/25 16:16	1
Styrene	<0.070		0.50	0.070	ug/L			06/13/25 16:16	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			06/13/25 16:16	1
Toluene	<0.080		0.50	0.080	ug/L			06/13/25 16:16	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			06/13/25 16:16	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			06/13/25 16:16	1
Trichloroethene	<0.080		0.50	0.080	ug/L			06/13/25 16:16	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			06/13/25 16:16	1
Vinyl chloride	<0.020		0.035	0.020	ug/L			06/13/25 16:16	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			06/13/25 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		06/13/25 16:16	1
4-Bromofluorobenzene (Surr)	91		80 - 120		06/13/25 16:16	1
Dibromofluoromethane (Surr)	113		80 - 120		06/13/25 16:16	1
Toluene-d8 (Surr)	100		80 - 120		06/13/25 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.011		0.054	0.011	ug/L		06/16/25 07:29	06/16/25 21:11	1
Acenaphthylene	<0.011		0.054	0.011	ug/L		06/16/25 07:29	06/16/25 21:11	1
Anthracene	<0.011		0.054	0.011	ug/L		06/16/25 07:29	06/16/25 21:11	1
Benzo[a]anthracene	<0.011		0.054	0.011	ug/L		06/16/25 07:29	06/16/25 21:11	1
Benzo[a]pyrene	<0.011		0.054	0.011	ug/L		06/16/25 07:29	06/16/25 21:11	1
Benzo[b]fluoranthene	<0.051		0.054	0.051	ug/L		06/16/25 07:29	06/16/25 21:11	1
Benzo[g,h,i]perylene	<0.011		0.054	0.011	ug/L		06/16/25 07:29	06/16/25 21:11	1
Benzo[k]fluoranthene	<0.011		0.054	0.011	ug/L		06/16/25 07:29	06/16/25 21:11	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Client Sample ID: QM-R-260714-061025

Lab Sample ID: 410-226639-5

Date Collected: 06/10/25 10:45

Matrix: Water

Date Received: 06/10/25 18:15

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.027		0.054	0.027	ug/L		06/16/25 07:29	06/16/25 21:11	1
Dibenz(a,h)anthracene	<0.022		0.054	0.022	ug/L		06/16/25 07:29	06/16/25 21:11	1
Fluoranthene	<0.025		0.054	0.025	ug/L		06/16/25 07:29	06/16/25 21:11	1
Fluorene	<0.011		0.054	0.011	ug/L		06/16/25 07:29	06/16/25 21:11	1
Indeno[1,2,3-cd]pyrene	<0.022		0.054	0.022	ug/L		06/16/25 07:29	06/16/25 21:11	1
Naphthalene	<0.074		0.076	0.074	ug/L		06/16/25 07:29	06/16/25 21:11	1
Phenanthrene	<0.033		0.076	0.033	ug/L		06/16/25 07:29	06/16/25 21:11	1
Pyrene	<0.023		0.054	0.023	ug/L		06/16/25 07:29	06/16/25 21:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	42		10 - 121	06/16/25 07:29	06/16/25 21:11	1
1-Methylnaphthalene-d10 (Surr)	98		30 - 127	06/16/25 07:29	06/16/25 21:11	1
Fluoranthene-d10 (Surr)	85		34 - 130	06/16/25 07:29	06/16/25 21:11	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			06/12/25 22:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid) (1C)	96		63 - 135					06/12/25 22:42	1

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	<0.0096		0.019	0.0096	ug/L		06/12/25 09:22	06/13/25 06:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	119		46 - 136				06/12/25 09:22	06/13/25 06:51	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	114		46 - 136				06/12/25 09:22	06/13/25 06:51	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	<47	*+ *1 cn	100	47	ug/L		06/12/25 07:27	06/13/25 09:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o- terphenyl (Surr)	87		32 - 125				06/12/25 07:27	06/13/25 09:52	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	<0.0080		0.010	0.0080	ug/L		06/14/25 09:32	06/16/25 10:50	1
PCB-1221 (1C)	<0.0080		0.010	0.0080	ug/L		06/14/25 09:32	06/16/25 10:50	1
PCB-1232 (1C)	<0.0080		0.010	0.0080	ug/L		06/14/25 09:32	06/16/25 10:50	1
PCB-1242 (1C)	<0.0080		0.010	0.0080	ug/L		06/14/25 09:32	06/16/25 10:50	1
PCB-1248 (1C)	<0.0080		0.010	0.0080	ug/L		06/14/25 09:32	06/16/25 10:50	1
PCB-1254 (1C)	<0.0050		0.010	0.0050	ug/L		06/14/25 09:32	06/16/25 10:50	1
PCB-1260 (1C)	<0.0050		0.010	0.0050	ug/L		06/14/25 09:32	06/16/25 10:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	108		46 - 161				06/14/25 09:32	06/16/25 10:50	1
DCB Decachlorobiphenyl (Surr) (2C)	103		46 - 161				06/14/25 09:32	06/16/25 10:50	1
Tetrachloro-m-xylene (1C)	56		41 - 146				06/14/25 09:32	06/16/25 10:50	1
Tetrachloro-m-xylene (2C)	67		41 - 146				06/14/25 09:32	06/16/25 10:50	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Client Sample ID: QM-R-260714-061025

Lab Sample ID: 410-226639-5

Date Collected: 06/10/25 10:45

Matrix: Water

Date Received: 06/10/25 18:15

Method: TAL SOP PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0080		0.010	0.0080	ug/L			06/16/25 10:50	1
PCB-1221	<0.0080		0.010	0.0080	ug/L			06/16/25 10:50	1
PCB-1232	<0.0080		0.010	0.0080	ug/L			06/16/25 10:50	1
PCB-1242	<0.0080		0.010	0.0080	ug/L			06/16/25 10:50	1
PCB-1248	<0.0080		0.010	0.0080	ug/L			06/16/25 10:50	1
PCB-1254	<0.0050		0.010	0.0050	ug/L			06/16/25 10:50	1
PCB-1260	<0.0050		0.010	0.0050	ug/L			06/16/25 10:50	1
Polychlorinated biphenyls, Total	<0.0080		0.010	0.0080	ug/L			06/16/25 10:50	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.9		1.0	0.50	mg/L			06/16/25 20:42	5

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	28		25	12	ug/L		06/13/25 21:45	06/16/25 15:35	1
Antimony	0.23	J	1.0	0.20	ug/L		06/13/25 21:45	06/14/25 09:18	1
Arsenic	<0.68		2.0	0.68	ug/L		06/13/25 21:45	06/14/25 09:18	1
Barium	24		2.0	0.75	ug/L		06/13/25 21:45	06/14/25 09:18	1
Beryllium	<0.12		0.50	0.12	ug/L		06/13/25 21:45	06/14/25 09:18	1
Cadmium	<0.15		0.50	0.15	ug/L		06/13/25 21:45	06/14/25 09:18	1
Calcium	100000		120	50	ug/L		06/13/25 21:45	06/16/25 15:35	1
Chromium	<0.55		2.0	0.55	ug/L		06/13/25 21:45	06/14/25 09:18	1
Cobalt	0.79		0.50	0.16	ug/L		06/13/25 21:45	06/16/25 15:35	1
Copper	<0.85		1.0	0.85	ug/L		06/13/25 21:45	06/14/25 09:18	1
Iron	700		50	20	ug/L		06/13/25 21:45	06/14/25 09:18	1
Lead	<0.12		0.50	0.12	ug/L		06/13/25 21:45	06/14/25 09:18	1
Magnesium	16000		50	16	ug/L		06/13/25 21:45	06/14/25 09:18	1
Manganese	170		2.0	0.95	ug/L		06/13/25 21:45	06/14/25 09:18	1
Nickel	2.2		1.0	0.40	ug/L		06/13/25 21:45	06/16/25 15:35	1
Potassium	4400		200	65	ug/L		06/13/25 21:45	06/14/25 09:18	1
Selenium	0.63	J	1.0	0.28	ug/L		06/13/25 21:45	06/14/25 09:18	1
Silver	0.23	J	0.50	0.10	ug/L		06/13/25 21:45	06/14/25 09:18	1
Sodium	71000		200	90	ug/L		06/13/25 21:45	06/14/25 09:18	1
Thallium	<0.13		0.50	0.13	ug/L		06/13/25 21:45	06/14/25 09:18	1
Zinc	<4.0		10	4.0	ug/L		06/13/25 21:45	06/14/25 09:18	1
Vanadium	<0.79		4.0	0.79	ug/L		06/13/25 21:45	06/14/25 09:18	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.087		0.20	0.087	ug/L		06/12/25 07:21	06/12/25 16:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	8.0	HF	0.01	0.01	S.U.			06/12/25 15:56	1
Temperature (SW846 9040C)	21.3	HF	0.01	0.01	Degrees C			06/12/25 15:56	1
Corrosivity (SW846 9040C)	NO	HF	0.01	0.01	NONE			06/12/25 15:56	1
Cyanide, Free (OI CORP OIA-1677)	<0.0050		0.0060	0.0050	mg/L			06/13/25 12:25	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Client Sample ID: QM-R-265742-061025

Lab Sample ID: 410-226639-6

Date Collected: 06/10/25 11:30

Matrix: Water

Date Received: 06/10/25 18:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.080		0.50	0.080	ug/L			06/13/25 16:38	1
1,1,1,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			06/13/25 16:38	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			06/13/25 16:38	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			06/13/25 16:38	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			06/13/25 16:38	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 16:38	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			06/13/25 16:38	1
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			06/13/25 16:38	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 16:38	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			06/13/25 16:38	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			06/13/25 16:38	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 16:38	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 16:38	1
2-Butanone	<1.0		5.0	1.0	ug/L			06/13/25 16:38	1
2-Hexanone	<2.0		5.0	2.0	ug/L			06/13/25 16:38	1
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			06/13/25 16:38	1
Acetone	3.4	J	5.0	1.5	ug/L			06/13/25 16:38	1
Benzene	<0.10		0.50	0.10	ug/L			06/13/25 16:38	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			06/13/25 16:38	1
Bromoform	<0.30		1.0	0.30	ug/L			06/13/25 16:38	1
Bromomethane	<0.10		0.50	0.10	ug/L			06/13/25 16:38	1
Carbon disulfide	0.19	J	1.0	0.10	ug/L			06/13/25 16:38	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			06/13/25 16:38	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 16:38	1
Chloroethane	<0.10		0.50	0.10	ug/L			06/13/25 16:38	1
Chloroform	<0.090		0.50	0.090	ug/L			06/13/25 16:38	1
Chloromethane	<0.10		0.50	0.10	ug/L			06/13/25 16:38	1
cis-1,2-Dichloroethene	<0.080		0.50	0.080	ug/L			06/13/25 16:38	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			06/13/25 16:38	1
Cyclohexane	<0.10		0.50	0.10	ug/L			06/13/25 16:38	1
Dibromochloromethane	<0.080	cn	0.50	0.080	ug/L			06/13/25 16:38	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			06/13/25 16:38	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			06/13/25 16:38	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			06/13/25 16:38	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			06/13/25 16:38	1
Methyl acetate	<0.20		1.0	0.20	ug/L			06/13/25 16:38	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			06/13/25 16:38	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			06/13/25 16:38	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			06/13/25 16:38	1
Styrene	<0.070		0.50	0.070	ug/L			06/13/25 16:38	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			06/13/25 16:38	1
Toluene	<0.080		0.50	0.080	ug/L			06/13/25 16:38	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			06/13/25 16:38	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			06/13/25 16:38	1
Trichloroethene	<0.080		0.50	0.080	ug/L			06/13/25 16:38	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			06/13/25 16:38	1
Vinyl chloride	<0.020		0.035	0.020	ug/L			06/13/25 16:38	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			06/13/25 16:38	1

Eurolins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Client Sample ID: QM-R-265742-061025

Lab Sample ID: 410-226639-6

Date Collected: 06/10/25 11:30

Matrix: Water

Date Received: 06/10/25 18:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		80 - 120		06/13/25 16:38	1
4-Bromofluorobenzene (Surr)	93		80 - 120		06/13/25 16:38	1
Dibromofluoromethane (Surr)	112		80 - 120		06/13/25 16:38	1
Toluene-d8 (Surr)	100		80 - 120		06/13/25 16:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.011		0.054	0.011	ug/L		06/16/25 07:29	06/16/25 21:33	1
Acenaphthylene	<0.011		0.054	0.011	ug/L		06/16/25 07:29	06/16/25 21:33	1
Anthracene	<0.011		0.054	0.011	ug/L		06/16/25 07:29	06/16/25 21:33	1
Benzo[a]anthracene	<0.011		0.054	0.011	ug/L		06/16/25 07:29	06/16/25 21:33	1
Benzo[a]pyrene	<0.011		0.054	0.011	ug/L		06/16/25 07:29	06/16/25 21:33	1
Benzo[b]fluoranthene	<0.050		0.054	0.050	ug/L		06/16/25 07:29	06/16/25 21:33	1
Benzo[g,h,i]perylene	<0.011		0.054	0.011	ug/L		06/16/25 07:29	06/16/25 21:33	1
Benzo[k]fluoranthene	<0.011		0.054	0.011	ug/L		06/16/25 07:29	06/16/25 21:33	1
Chrysene	<0.027		0.054	0.027	ug/L		06/16/25 07:29	06/16/25 21:33	1
Dibenz(a,h)anthracene	<0.021		0.054	0.021	ug/L		06/16/25 07:29	06/16/25 21:33	1
Fluoranthene	<0.025		0.054	0.025	ug/L		06/16/25 07:29	06/16/25 21:33	1
Fluorene	<0.011		0.054	0.011	ug/L		06/16/25 07:29	06/16/25 21:33	1
Indeno[1,2,3-cd]pyrene	<0.021		0.054	0.021	ug/L		06/16/25 07:29	06/16/25 21:33	1
Naphthalene	<0.073		0.075	0.073	ug/L		06/16/25 07:29	06/16/25 21:33	1
Phenanthrene	<0.032		0.075	0.032	ug/L		06/16/25 07:29	06/16/25 21:33	1
Pyrene	<0.023		0.054	0.023	ug/L		06/16/25 07:29	06/16/25 21:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	62		10 - 121	06/16/25 07:29	06/16/25 21:33	1
1-Methylnaphthalene-d10 (Surr)	93		30 - 127	06/16/25 07:29	06/16/25 21:33	1
Fluoranthene-d10 (Surr)	86		34 - 130	06/16/25 07:29	06/16/25 21:33	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			06/12/25 23:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid) (1C)	92		63 - 135		06/12/25 23:07	1

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	<0.0096		0.019	0.0096	ug/L		06/12/25 09:22	06/13/25 07:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	118		46 - 136	06/12/25 09:22	06/13/25 07:08	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	113		46 - 136	06/12/25 09:22	06/13/25 07:08	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	160		110	49	ug/L		06/14/25 16:25	06/16/25 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-terphenyl (Surr)	64		32 - 125	06/14/25 16:25	06/16/25 18:29	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Client Sample ID: QM-R-265742-061025

Lab Sample ID: 410-226639-6

Date Collected: 06/10/25 11:30

Matrix: Water

Date Received: 06/10/25 18:15

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	<0.0080		0.010	0.0080	ug/L		06/14/25 09:32	06/16/25 11:03	1
PCB-1221 (1C)	<0.0080		0.010	0.0080	ug/L		06/14/25 09:32	06/16/25 11:03	1
PCB-1232 (1C)	<0.0080		0.010	0.0080	ug/L		06/14/25 09:32	06/16/25 11:03	1
PCB-1242 (1C)	<0.0080		0.010	0.0080	ug/L		06/14/25 09:32	06/16/25 11:03	1
PCB-1248 (1C)	<0.0080		0.010	0.0080	ug/L		06/14/25 09:32	06/16/25 11:03	1
PCB-1254 (1C)	<0.0050		0.010	0.0050	ug/L		06/14/25 09:32	06/16/25 11:03	1
PCB-1260 (1C)	<0.0050		0.010	0.0050	ug/L		06/14/25 09:32	06/16/25 11:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	127		46 - 161	06/14/25 09:32	06/16/25 11:03	1
DCB Decachlorobiphenyl (Surr) (2C)	122		46 - 161	06/14/25 09:32	06/16/25 11:03	1
Tetrachloro-m-xylene (1C)	65		41 - 146	06/14/25 09:32	06/16/25 11:03	1
Tetrachloro-m-xylene (2C)	64		41 - 146	06/14/25 09:32	06/16/25 11:03	1

Method: TAL SOP PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0080		0.010	0.0080	ug/L			06/16/25 11:03	1
PCB-1221	<0.0080		0.010	0.0080	ug/L			06/16/25 11:03	1
PCB-1232	<0.0080		0.010	0.0080	ug/L			06/16/25 11:03	1
PCB-1242	<0.0080		0.010	0.0080	ug/L			06/16/25 11:03	1
PCB-1248	<0.0080		0.010	0.0080	ug/L			06/16/25 11:03	1
PCB-1254	<0.0050		0.010	0.0050	ug/L			06/16/25 11:03	1
PCB-1260	<0.0050		0.010	0.0050	ug/L			06/16/25 11:03	1
Polychlorinated biphenyls, Total	<0.0080		0.010	0.0080	ug/L			06/16/25 11:03	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.9		1.0	0.50	mg/L			06/17/25 13:04	5

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	18 J		25	12	ug/L		06/13/25 21:45	06/16/25 15:37	1
Antimony	<0.20		1.0	0.20	ug/L		06/13/25 21:45	06/14/25 09:20	1
Arsenic	<0.68		2.0	0.68	ug/L		06/13/25 21:45	06/14/25 09:20	1
Barium	24		2.0	0.75	ug/L		06/13/25 21:45	06/14/25 09:20	1
Beryllium	<0.12		0.50	0.12	ug/L		06/13/25 21:45	06/14/25 09:20	1
Cadmium	<0.15		0.50	0.15	ug/L		06/13/25 21:45	06/14/25 09:20	1
Calcium	87000		120	50	ug/L		06/13/25 21:45	06/16/25 15:37	1
Chromium	<0.55		2.0	0.55	ug/L		06/13/25 21:45	06/14/25 09:20	1
Cobalt	0.73		0.50	0.16	ug/L		06/13/25 21:45	06/16/25 15:37	1
Copper	<0.85		1.0	0.85	ug/L		06/13/25 21:45	06/14/25 09:20	1
Iron	610		50	20	ug/L		06/13/25 21:45	06/14/25 09:20	1
Lead	<0.12		0.50	0.12	ug/L		06/13/25 21:45	06/14/25 09:20	1
Magnesium	15000		50	16	ug/L		06/13/25 21:45	06/14/25 09:20	1
Manganese	130		2.0	0.95	ug/L		06/13/25 21:45	06/14/25 09:20	1
Nickel	1.2		1.0	0.40	ug/L		06/13/25 21:45	06/16/25 15:37	1
Potassium	4600		200	65	ug/L		06/13/25 21:45	06/14/25 09:20	1
Selenium	0.54 J		1.0	0.28	ug/L		06/13/25 21:45	06/14/25 09:20	1
Silver	<0.10		0.50	0.10	ug/L		06/13/25 21:45	06/14/25 09:20	1
Sodium	57000		200	90	ug/L		06/13/25 21:45	06/14/25 09:20	1

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Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Client Sample ID: QM-R-265742-061025

Lab Sample ID: 410-226639-6

Date Collected: 06/10/25 11:30

Matrix: Water

Date Received: 06/10/25 18:15

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.13		0.50	0.13	ug/L		06/13/25 21:45	06/14/25 09:20	1
Zinc	6.3	J	10	4.0	ug/L		06/13/25 21:45	06/14/25 09:20	1
Vanadium	<0.79		4.0	0.79	ug/L		06/13/25 21:45	06/14/25 09:20	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.087		0.20	0.087	ug/L		06/12/25 07:21	06/12/25 17:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	7.9	HF	0.01	0.01	S.U.			06/12/25 15:56	1
Temperature (SW846 9040C)	21.4	HF	0.01	0.01	Degrees C			06/12/25 15:56	1
Corrosivity (SW846 9040C)	NO	HF	0.01	0.01	NONE			06/12/25 15:56	1
Cyanide, Free (OI CORP OIA-1677)	<0.0050		0.0060	0.0050	mg/L			06/13/25 12:50	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (80-120)	BFB (80-120)	DBFM (80-120)	TOL (80-120)
410-226639-1	TB-061025	106	93	113	100
410-226639-2	QM-R-SV27472LM-061025	106	91	111	100
410-226639-3	QM-R-SV23192L-061025	106	93	110	101
410-226639-4	QM-R-SV27454LM-061025	107	91	111	100
410-226639-5	QM-R-260714-061025	105	91	113	100
410-226639-6	QM-R-265742-061025	108	93	112	100
LCS 410-657229/6	Lab Control Sample	104	95	107	103
MB 410-657229/8	Method Blank	107	93	111	101
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
TOL = Toluene-d8 (Surr)					

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BAPd12 (10-121)	MNPd10 (30-127)	FLN10 (34-130)
410-226639-2	QM-R-SV27472LM-061025	64	102	79
410-226639-3	QM-R-SV23192L-061025	61	96	78
410-226639-4	QM-R-SV27454LM-061025	48	95	84
410-226639-5	QM-R-260714-061025	42	98	85
410-226639-6	QM-R-265742-061025	62	93	86
LCS 410-657932/2-A	Lab Control Sample	83	88	84
MB 410-657932/1-A	Method Blank	71	89	75
Surrogate Legend				
BAPd12 = Benzo(a)pyrene-d12 (Surr)				
MNPd10 = 1-Methylnaphthalene-d10 (Surr)				
FLN10 = Fluoranthene-d10 (Surr)				

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TFT-F1 (63-135)	
410-226639-1	TB-061025	96	
410-226639-2	QM-R-SV27472LM-061025	96	
410-226639-3	QM-R-SV23192L-061025	96	
410-226639-4	QM-R-SV27454LM-061025	94 cn	
410-226639-5	QM-R-260714-061025	96	
410-226639-6	QM-R-265742-061025	92	
LCS 410-656648/6	Lab Control Sample	86	
LCSD 410-656648/7	Lab Control Sample Dup	86	
MB 410-656648/5	Method Blank	94	
Surrogate Legend			
TFT-F = a,a,a-Trifluorotoluene (fid)			

Eurofins Lancaster Laboratories Environment Testing, LLC

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1122TCA1 (46-136)	1122TCA2 (46-136)
410-226639-1	TB-061025	112	112
410-226639-2	QM-R-SV27472LM-061025	95	110
410-226639-3	QM-R-SV23192L-061025	125	109
410-226639-4	QM-R-SV27454LM-061025	116	115
410-226639-5	QM-R-260714-061025	119	114
410-226639-6	QM-R-265742-061025	118	113
LCS 410-656628/2-A	Lab Control Sample	109	108
LCSD 410-656628/3-A	Lab Control Sample Dup	109	107
MB 410-656628/1-A	Method Blank	103	103
Surrogate Legend			
1122TCA = 1,1,2,2-Tetrachloroethane (Surr)			

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	OTP (32-125)	
410-226639-2	QM-R-SV27472LM-061025	87	
410-226639-3	QM-R-SV23192L-061025	88	
410-226639-4	QM-R-SV27454LM-061025	85	
410-226639-5	QM-R-260714-061025	87	
410-226639-6	QM-R-265742-061025	64	
LCS 410-656505/2-A	Lab Control Sample	78	
LCS 410-657759/2-A	Lab Control Sample	66	
LCSD 410-656505/3-A	Lab Control Sample Dup	79	
LCSD 410-657759/3-A	Lab Control Sample Dup	66	
MB 410-656505/1-A	Method Blank	86	
MB 410-657759/1-A	Method Blank	77	
Surrogate Legend			
OTP = o- terphenyl (Surr)			

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCB1 (46-161)	DCB2 (46-161)	TCX1 (41-146)	TCX2 (41-146)
410-226639-2	QM-R-SV27472LM-061025	111	102	72	70
410-226639-3	QM-R-SV23192L-061025	112	104	77	72
410-226639-4	QM-R-SV27454LM-061025	115	106	80	75
410-226639-5	QM-R-260714-061025	108	103	56	67
410-226639-6	QM-R-265742-061025	127	122	65	64
LCS 410-657739/2-A	Lab Control Sample	125	120	71	67
LCSD 410-657739/3-A	Lab Control Sample Dup	127	118	72	66
MB 410-657739/1-A	Method Blank	115	113	74	70
Surrogate Legend					
DCB = DCB Decachlorobiphenyl (Surr)					
TCX = Tetrachloro-m-xylene					

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

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

Lab Sample ID: MB 410-657229/8

Matrix: Water

Analysis Batch: 657229

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	<0.080		0.50	0.080	ug/L			06/13/25 13:04	1
1,1,1,2,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			06/13/25 13:04	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			06/13/25 13:04	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			06/13/25 13:04	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			06/13/25 13:04	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 13:04	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			06/13/25 13:04	1
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			06/13/25 13:04	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 13:04	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			06/13/25 13:04	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			06/13/25 13:04	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 13:04	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 13:04	1
2-Butanone	<1.0		5.0	1.0	ug/L			06/13/25 13:04	1
2-Hexanone	<2.0		5.0	2.0	ug/L			06/13/25 13:04	1
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			06/13/25 13:04	1
Acetone	<1.5		5.0	1.5	ug/L			06/13/25 13:04	1
Benzene	<0.10		0.50	0.10	ug/L			06/13/25 13:04	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			06/13/25 13:04	1
Bromoform	<0.30		1.0	0.30	ug/L			06/13/25 13:04	1
Bromomethane	<0.10		0.50	0.10	ug/L			06/13/25 13:04	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			06/13/25 13:04	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			06/13/25 13:04	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			06/13/25 13:04	1
Chloroethane	<0.10		0.50	0.10	ug/L			06/13/25 13:04	1
Chloroform	<0.090		0.50	0.090	ug/L			06/13/25 13:04	1
Chloromethane	<0.10		0.50	0.10	ug/L			06/13/25 13:04	1
cis-1,2-Dichloroethene	<0.080		0.50	0.080	ug/L			06/13/25 13:04	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			06/13/25 13:04	1
Cyclohexane	<0.10		0.50	0.10	ug/L			06/13/25 13:04	1
Dibromochloromethane	<0.080		0.50	0.080	ug/L			06/13/25 13:04	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			06/13/25 13:04	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			06/13/25 13:04	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			06/13/25 13:04	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			06/13/25 13:04	1
Methyl acetate	<0.20		1.0	0.20	ug/L			06/13/25 13:04	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			06/13/25 13:04	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			06/13/25 13:04	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			06/13/25 13:04	1
Styrene	<0.070		0.50	0.070	ug/L			06/13/25 13:04	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			06/13/25 13:04	1
Toluene	<0.080		0.50	0.080	ug/L			06/13/25 13:04	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			06/13/25 13:04	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			06/13/25 13:04	1
Trichloroethene	<0.080		0.50	0.080	ug/L			06/13/25 13:04	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			06/13/25 13:04	1
Vinyl chloride	<0.020		0.035	0.020	ug/L			06/13/25 13:04	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			06/13/25 13:04	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

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

Lab Sample ID: MB 410-657229/8

Matrix: Water

Analysis Batch: 657229

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		80 - 120		06/13/25 13:04	1
4-Bromofluorobenzene (Surr)	93		80 - 120		06/13/25 13:04	1
Dibromofluoromethane (Surr)	111		80 - 120		06/13/25 13:04	1
Toluene-d8 (Surr)	101		80 - 120		06/13/25 13:04	1

Lab Sample ID: LCS 410-657229/6

Matrix: Water

Analysis Batch: 657229

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	5.00	4.82		ug/L		96	78 - 126
1,1,1,2,2-Tetrachloroethane	5.00	4.41		ug/L		88	75 - 123
1,1,1,2-Trichloroethane	5.00	4.54		ug/L		91	80 - 120
1,1-Dichloroethane	5.00	4.59		ug/L		92	74 - 120
1,1-Dichloroethene	5.00	4.79		ug/L		96	80 - 131
1,2,4-Trichlorobenzene	5.00	4.63		ug/L		93	68 - 122
1,2-Dibromo-3-Chloropropane	5.00	4.20		ug/L		84	75 - 124
1,2-Dibromoethane	5.00	4.60		ug/L		92	80 - 120
1,2-Dichlorobenzene	5.00	4.47		ug/L		89	80 - 120
1,2-Dichloroethane	5.00	4.15		ug/L		83	69 - 122
1,2-Dichloropropane	5.00	4.56		ug/L		91	80 - 120
1,3-Dichlorobenzene	5.00	4.52		ug/L		90	80 - 120
1,4-Dichlorobenzene	5.00	4.49		ug/L		90	80 - 120
2-Butanone	62.5	54.1		ug/L		87	59 - 141
2-Hexanone	62.5	49.5		ug/L		79	52 - 140
4-Methyl-2-pentanone	62.5	49.9		ug/L		80	55 - 140
Acetone	62.5	49.2		ug/L		79	60 - 146
Benzene	5.00	4.35		ug/L		87	80 - 120
Bromodichloromethane	5.00	4.80		ug/L		96	80 - 123
Bromoform	5.00	5.07		ug/L		101	75 - 126
Bromomethane	5.00	3.59		ug/L		72	63 - 120
Carbon disulfide	5.00	4.39		ug/L		88	67 - 130
Carbon tetrachloride	5.00	5.12		ug/L		102	64 - 141
Chlorobenzene	5.00	4.54		ug/L		91	80 - 120
Chloroethane	5.00	3.44		ug/L		69	63 - 120
Chloroform	5.00	4.65		ug/L		93	80 - 120
Chloromethane	5.00	4.21		ug/L		84	56 - 124
cis-1,2-Dichloroethene	5.00	4.47		ug/L		89	80 - 122
cis-1,3-Dichloropropene	5.00	4.35		ug/L		87	67 - 121
Cyclohexane	5.00	3.97		ug/L		79	69 - 120
Dibromochloromethane	5.00	5.18		ug/L		104	80 - 123
Dichlorodifluoromethane	5.00	3.60		ug/L		72	43 - 123
Ethylbenzene	5.00	4.39		ug/L		88	80 - 120
1,1,2-Trichlorotrifluoroethane	5.00	4.20		ug/L		84	67 - 124
Isopropylbenzene	5.00	4.95		ug/L		99	80 - 120
Methyl acetate	5.00	3.40		ug/L		68	59 - 143
Methyl tertiary butyl ether	5.00	4.16		ug/L		83	69 - 120
Methylcyclohexane	5.00	4.00		ug/L		80	80 - 120

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

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

Lab Sample ID: LCS 410-657229/6

Matrix: Water

Analysis Batch: 657229

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	5.00	4.51		ug/L		90	80 - 120
Styrene	5.00	4.47		ug/L		89	80 - 120
Tetrachloroethene	5.00	4.77		ug/L		95	80 - 120
Toluene	5.00	4.42		ug/L		88	80 - 120
trans-1,2-Dichloroethene	5.00	4.62		ug/L		92	80 - 122
trans-1,3-Dichloropropene	5.00	4.47		ug/L		89	61 - 129
Trichloroethene	5.00	4.43		ug/L		89	80 - 120
Trichlorofluoromethane	5.00	3.82		ug/L		76	53 - 136
Vinyl chloride	5.00	4.23		ug/L		85	60 - 125
Xylenes, Total	15.0	13.1		ug/L		87	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		80 - 120
4-Bromofluorobenzene (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	107		80 - 120
Toluene-d8 (Surr)	103		80 - 120

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

Lab Sample ID: MB 410-657932/1-A

Matrix: Water

Analysis Batch: 658311

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 657932

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.010		0.050	0.010	ug/L		06/16/25 07:29	06/16/25 18:43	1
Acenaphthylene	<0.010		0.050	0.010	ug/L		06/16/25 07:29	06/16/25 18:43	1
Anthracene	<0.010		0.050	0.010	ug/L		06/16/25 07:29	06/16/25 18:43	1
Benzo[a]anthracene	<0.010		0.050	0.010	ug/L		06/16/25 07:29	06/16/25 18:43	1
Benzo[a]pyrene	<0.010		0.050	0.010	ug/L		06/16/25 07:29	06/16/25 18:43	1
Benzo[b]fluoranthene	<0.047		0.050	0.047	ug/L		06/16/25 07:29	06/16/25 18:43	1
Benzo[g,h,i]perylene	<0.010		0.050	0.010	ug/L		06/16/25 07:29	06/16/25 18:43	1
Benzo[k]fluoranthene	<0.010		0.050	0.010	ug/L		06/16/25 07:29	06/16/25 18:43	1
Chrysene	<0.025		0.050	0.025	ug/L		06/16/25 07:29	06/16/25 18:43	1
Dibenz(a,h)anthracene	<0.020		0.050	0.020	ug/L		06/16/25 07:29	06/16/25 18:43	1
Fluoranthene	<0.023		0.050	0.023	ug/L		06/16/25 07:29	06/16/25 18:43	1
Fluorene	<0.010		0.050	0.010	ug/L		06/16/25 07:29	06/16/25 18:43	1
Indeno[1,2,3-cd]pyrene	<0.020		0.050	0.020	ug/L		06/16/25 07:29	06/16/25 18:43	1
Naphthalene	<0.068		0.070	0.068	ug/L		06/16/25 07:29	06/16/25 18:43	1
Phenanthrene	<0.030		0.070	0.030	ug/L		06/16/25 07:29	06/16/25 18:43	1
Pyrene	<0.021		0.050	0.021	ug/L		06/16/25 07:29	06/16/25 18:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	71		10 - 121	06/16/25 07:29	06/16/25 18:43	1
1-Methylnaphthalene-d10 (Surr)	89		30 - 127	06/16/25 07:29	06/16/25 18:43	1
Fluoranthene-d10 (Surr)	75		34 - 130	06/16/25 07:29	06/16/25 18:43	1

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

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

Lab Sample ID: LCS 410-657932/2-A

Matrix: Water

Analysis Batch: 658311

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 657932

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	1.00	0.821		ug/L		82	33 - 122
Acenaphthylene	1.00	0.935		ug/L		94	35 - 123
Anthracene	1.00	0.919		ug/L		92	40 - 127
Benzo[a]anthracene	1.00	0.876		ug/L		88	34 - 128
Benzo[a]pyrene	1.00	0.984		ug/L		98	38 - 134
Benzo[b]fluoranthene	1.00	0.893		ug/L		89	35 - 131
Benzo[g,h,i]perylene	1.00	1.07		ug/L		107	31 - 139
Benzo[k]fluoranthene	1.00	1.04		ug/L		104	42 - 146
Chrysene	1.00	0.937		ug/L		94	34 - 134
Dibenz(a,h)anthracene	1.00	1.05		ug/L		105	29 - 136
Fluoranthene	1.00	0.884		ug/L		88	36 - 129
Fluorene	1.00	0.867		ug/L		87	35 - 124
Indeno[1,2,3-cd]pyrene	1.00	1.02		ug/L		102	28 - 137
Naphthalene	1.00	0.763		ug/L		76	26 - 120
Phenanthrene	1.00	0.896		ug/L		90	37 - 125
Pyrene	1.00	0.917		ug/L		92	34 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Benzo(a)pyrene-d12 (Surr)	83		10 - 121
1-Methylnaphthalene-d10 (Surr)	88		30 - 127
Fluoranthene-d10 (Surr)	84		34 - 130

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 410-656648/5

Matrix: Water

Analysis Batch: 656648

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
GRO (1C)	<23		50	23	ug/L			06/12/25 11:39	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
a,a,a-Trifluorotoluene (fid) (1C)	94		63 - 135		06/12/25 11:39	1			

Lab Sample ID: LCS 410-656648/6

Matrix: Water

Analysis Batch: 656648

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline (Unleaded) (1C)			1100	1040		ug/L		95	66 - 120		
			LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits								
a,a,a-Trifluorotoluene (fid) (1C)	86		63 - 135								

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: LCSD 410-656648/7

Matrix: Water

Analysis Batch: 656648

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
Gasoline (Unleaded) (1C)	1100	1060		ug/L		96	66 - 120	1	30
Surrogate	%Recovery	LCSD Qualifier	Limits						
a,a,a-Trifluorotoluene (fid) (1C)	86		63 - 135						

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-656628/1-A

Matrix: Water

Analysis Batch: 656883

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 656628

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	<0.010		0.020	0.010	ug/L		06/12/25 09:22	06/13/25 00:54	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	103		46 - 136				06/12/25 09:22	06/13/25 00:54	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	103		46 - 136				06/12/25 09:22	06/13/25 00:54	1

Lab Sample ID: LCS 410-656628/2-A

Matrix: Water

Analysis Batch: 656883

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 656628

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethylene Dibromide (1C)	0.129	0.148		ug/L		115	60 - 140		
Surrogate	%Recovery	LCS Qualifier	Limits						
1,1,2,2-Tetrachloroethane (Surr) (1C)	109		46 - 136						
1,1,2,2-Tetrachloroethane (Surr) (2C)	108		46 - 136						

Lab Sample ID: LCSD 410-656628/3-A

Matrix: Water

Analysis Batch: 656883

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 656628

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.129	0.139		ug/L		108	60 - 140	6	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1,1,2,2-Tetrachloroethane (Surr) (1C)	109		46 - 136						
1,1,2,2-Tetrachloroethane (Surr) (2C)	107		46 - 136						

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 410-656505/1-A

Matrix: Water

Analysis Batch: 656613

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 656505

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	<45		100	45	ug/L		06/12/25 07:27	06/13/25 04:12	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o- terphenyl (Surr)	86		32 - 125				06/12/25 07:27	06/13/25 04:12	1

Lab Sample ID: LCS 410-656505/2-A

Matrix: Water

Analysis Batch: 656613

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 656505

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
DRO (C10-C28)	603	1130	*+	ug/L		188	20 - 115	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
o- terphenyl (Surr)	78		32 - 125					

Lab Sample ID: LCSD 410-656505/3-A

Matrix: Water

Analysis Batch: 656613

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 656505

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
DRO (C10-C28)	603	645	*1	ug/L		107	20 - 115	55	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
o- terphenyl (Surr)	79		32 - 125						

Lab Sample ID: MB 410-657759/1-A

Matrix: Water

Analysis Batch: 658144

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 657759

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	<45		100	45	ug/L		06/14/25 16:25	06/16/25 15:03	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o- terphenyl (Surr)	77		32 - 125				06/14/25 16:25	06/16/25 15:03	1

Lab Sample ID: LCS 410-657759/2-A

Matrix: Water

Analysis Batch: 658144

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 657759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
DRO (C10-C28)	603	479		ug/L		79	20 - 115	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
o- terphenyl (Surr)	66		32 - 125					

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 410-657759/3-A

Matrix: Water

Analysis Batch: 658144

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 657759

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
DRO (C10-C28)	603	558		ug/L		93	20 - 115	15	20
Surrogate	%Recovery	LCSD Qualifier	LCSD Limits						
<i>o</i> -terphenyl (Surr)	66		32 - 125						

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 410-657739/1-A

Matrix: Water

Analysis Batch: 657987

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 657739

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	<0.0080		0.010	0.0080	ug/L		06/14/25 09:32	06/16/25 09:32	1
PCB-1221 (1C)	<0.0080		0.010	0.0080	ug/L		06/14/25 09:32	06/16/25 09:32	1
PCB-1232 (1C)	<0.0080		0.010	0.0080	ug/L		06/14/25 09:32	06/16/25 09:32	1
PCB-1242 (1C)	<0.0080		0.010	0.0080	ug/L		06/14/25 09:32	06/16/25 09:32	1
PCB-1248 (1C)	<0.0080		0.010	0.0080	ug/L		06/14/25 09:32	06/16/25 09:32	1
PCB-1254 (1C)	<0.0050		0.010	0.0050	ug/L		06/14/25 09:32	06/16/25 09:32	1
PCB-1260 (1C)	<0.0050		0.010	0.0050	ug/L		06/14/25 09:32	06/16/25 09:32	1
Surrogate	%Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	115		46 - 161				06/14/25 09:32	06/16/25 09:32	1
DCB Decachlorobiphenyl (Surr) (2C)	113		46 - 161				06/14/25 09:32	06/16/25 09:32	1
Tetrachloro- <i>m</i> -xylene (1C)	74		41 - 146				06/14/25 09:32	06/16/25 09:32	1
Tetrachloro- <i>m</i> -xylene (2C)	70		41 - 146				06/14/25 09:32	06/16/25 09:32	1

Lab Sample ID: LCS 410-657739/2-A

Matrix: Water

Analysis Batch: 657987

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 657739

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016 (1C)	0.500	0.421		ug/L		84	60 - 117		
PCB-1260 (1C)	0.500	0.515		ug/L		103	81 - 130		
Surrogate	%Recovery	LCS Qualifier	LCS Limits						
DCB Decachlorobiphenyl (Surr) (1C)	125		46 - 161						
DCB Decachlorobiphenyl (Surr) (2C)	120		46 - 161						
Tetrachloro- <i>m</i> -xylene (1C)	71		41 - 146						
Tetrachloro- <i>m</i> -xylene (2C)	67		41 - 146						

Lab Sample ID: LCSD 410-657739/3-A

Matrix: Water

Analysis Batch: 657987

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 657739

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016 (1C)	0.500	0.443		ug/L		88	60 - 117	5	30

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QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: LCSD 410-657739/3-A

Matrix: Water

Analysis Batch: 657987

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 657739

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1260 (1C)	0.500	0.533		ug/L		107	81 - 130	3	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
DCB Decachlorobiphenyl (Surr) (1C)	127		46 - 161						
DCB Decachlorobiphenyl (Surr) (2C)	118		46 - 161						
Tetrachloro-m-xylene (1C)	72		41 - 146						
Tetrachloro-m-xylene (2C)	66		41 - 146						

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-658571/5

Matrix: Water

Analysis Batch: 658571

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.20	0.10	mg/L			06/16/25 18:27	1

Lab Sample ID: LCS 410-658571/3

Matrix: Water

Analysis Batch: 658571

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride	0.750	0.747		mg/L		100	90 - 110		

Lab Sample ID: LCSD 410-658571/4

Matrix: Water

Analysis Batch: 658571

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
Fluoride	0.750	0.747		mg/L		100	90 - 110	0	20

Lab Sample ID: MB 410-658574/5

Matrix: Water

Analysis Batch: 658574

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.20	0.10	mg/L			06/17/25 01:59	1

Lab Sample ID: LCS 410-658574/3

Matrix: Water

Analysis Batch: 658574

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride	0.750	0.741		mg/L		99	90 - 110		

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 410-658574/4

Matrix: Water

Analysis Batch: 658574

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
Fluoride	0.750	0.743		mg/L		99	90 - 110	0	20

Lab Sample ID: 410-226639-3 MS

Matrix: Water

Analysis Batch: 658574

Client Sample ID: QM-R-SV23192L-061025

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.82		0.500	1.28		mg/L		93	90 - 110

Lab Sample ID: 410-226639-3 DU

Matrix: Water

Analysis Batch: 658574

Client Sample ID: QM-R-SV23192L-061025

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.82		0.837		mg/L		2	15

Lab Sample ID: MB 410-658869/5

Matrix: Water

Analysis Batch: 658869

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.20	0.10	mg/L			06/17/25 08:05	1

Lab Sample ID: LCS 410-658869/3

Matrix: Water

Analysis Batch: 658869

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.750	0.803		mg/L		107	90 - 110

Lab Sample ID: LCSD 410-658869/4

Matrix: Water

Analysis Batch: 658869

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
Fluoride	0.750	0.759		mg/L		101	90 - 110	6	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-657100/1-A

Matrix: Water

Analysis Batch: 658478

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 657100

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<12		25	12	ug/L		06/13/25 07:25	06/16/25 19:35	1
Antimony	<0.20		1.0	0.20	ug/L		06/13/25 07:25	06/16/25 19:35	1
Arsenic	<0.68		2.0	0.68	ug/L		06/13/25 07:25	06/16/25 19:35	1
Barium	<0.75		2.0	0.75	ug/L		06/13/25 07:25	06/16/25 19:35	1
Beryllium	<0.12		0.50	0.12	ug/L		06/13/25 07:25	06/16/25 19:35	1
Cadmium	<0.15		0.50	0.15	ug/L		06/13/25 07:25	06/16/25 19:35	1

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QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 410-657100/1-A

Matrix: Water

Analysis Batch: 658478

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 657100

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<50		120	50	ug/L		06/13/25 07:25	06/16/25 19:35	1
Chromium	<0.55		2.0	0.55	ug/L		06/13/25 07:25	06/16/25 19:35	1
Cobalt	<0.16		0.50	0.16	ug/L		06/13/25 07:25	06/16/25 19:35	1
Copper	<0.85		1.0	0.85	ug/L		06/13/25 07:25	06/16/25 19:35	1
Iron	<20		50	20	ug/L		06/13/25 07:25	06/16/25 19:35	1
Lead	<0.12		0.50	0.12	ug/L		06/13/25 07:25	06/16/25 19:35	1
Magnesium	<16		50	16	ug/L		06/13/25 07:25	06/16/25 19:35	1
Manganese	0.972	J	2.0	0.95	ug/L		06/13/25 07:25	06/16/25 19:35	1
Nickel	<0.40		1.0	0.40	ug/L		06/13/25 07:25	06/16/25 19:35	1
Potassium	<65		200	65	ug/L		06/13/25 07:25	06/16/25 19:35	1
Selenium	<0.28		1.0	0.28	ug/L		06/13/25 07:25	06/16/25 19:35	1
Silver	<0.10		0.50	0.10	ug/L		06/13/25 07:25	06/16/25 19:35	1
Sodium	<90		200	90	ug/L		06/13/25 07:25	06/16/25 19:35	1
Thallium	<0.13		0.50	0.13	ug/L		06/13/25 07:25	06/16/25 19:35	1
Zinc	<4.0		10	4.0	ug/L		06/13/25 07:25	06/16/25 19:35	1
Vanadium	<0.79		4.0	0.79	ug/L		06/13/25 07:25	06/16/25 19:35	1

Lab Sample ID: LCS 410-657100/2-A

Matrix: Water

Analysis Batch: 658478

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 657100

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5000	4750		ug/L		95	83 - 114
Antimony	100	94.4		ug/L		94	85 - 115
Arsenic	500	473		ug/L		95	86 - 111
Barium	500	483		ug/L		97	86 - 114
Beryllium	50.0	46.5		ug/L		93	80 - 120
Cadmium	50.0	48.3		ug/L		97	86 - 114
Calcium	5000	4710		ug/L		94	84 - 113
Chromium	500	470		ug/L		94	84 - 113
Cobalt	500	478		ug/L		96	85 - 112
Copper	500	481		ug/L		96	86 - 111
Iron	5000	4670		ug/L		93	84 - 114
Lead	50.0	47.6		ug/L		95	86 - 114
Magnesium	5000	4730		ug/L		95	84 - 113
Manganese	500	464		ug/L		93	84 - 113
Nickel	500	464		ug/L		93	85 - 113
Potassium	5000	4710		ug/L		94	87 - 111
Selenium	100	92.0		ug/L		92	86 - 111
Silver	50.0	49.7		ug/L		99	88 - 116
Sodium	5000	4770		ug/L		95	84 - 114
Thallium	100	91.6		ug/L		92	86 - 113
Zinc	500	477		ug/L		95	86 - 112
Vanadium	500	468		ug/L		94	84 - 112

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 410-657669/1-A

Matrix: Water

Analysis Batch: 657743

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 657669

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.20		1.0	0.20	ug/L		06/13/25 21:45	06/14/25 08:47	1
Arsenic	<0.68		2.0	0.68	ug/L		06/13/25 21:45	06/14/25 08:47	1
Barium	<0.75		2.0	0.75	ug/L		06/13/25 21:45	06/14/25 08:47	1
Beryllium	<0.12		0.50	0.12	ug/L		06/13/25 21:45	06/14/25 08:47	1
Cadmium	<0.15		0.50	0.15	ug/L		06/13/25 21:45	06/14/25 08:47	1
Chromium	<0.55		2.0	0.55	ug/L		06/13/25 21:45	06/14/25 08:47	1
Copper	<0.85		1.0	0.85	ug/L		06/13/25 21:45	06/14/25 08:47	1
Iron	<20		50	20	ug/L		06/13/25 21:45	06/14/25 08:47	1
Lead	<0.12		0.50	0.12	ug/L		06/13/25 21:45	06/14/25 08:47	1
Magnesium	<16		50	16	ug/L		06/13/25 21:45	06/14/25 08:47	1
Manganese	<0.95		2.0	0.95	ug/L		06/13/25 21:45	06/14/25 08:47	1
Potassium	<65		200	65	ug/L		06/13/25 21:45	06/14/25 08:47	1
Selenium	<0.28		1.0	0.28	ug/L		06/13/25 21:45	06/14/25 08:47	1
Silver	<0.10		0.50	0.10	ug/L		06/13/25 21:45	06/14/25 08:47	1
Sodium	<90		200	90	ug/L		06/13/25 21:45	06/14/25 08:47	1
Thallium	<0.13		0.50	0.13	ug/L		06/13/25 21:45	06/14/25 08:47	1
Zinc	<4.0		10	4.0	ug/L		06/13/25 21:45	06/14/25 08:47	1
Vanadium	<0.79		4.0	0.79	ug/L		06/13/25 21:45	06/14/25 08:47	1

Lab Sample ID: MB 410-657669/1-A

Matrix: Water

Analysis Batch: 658478

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 657669

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<12		25	12	ug/L		06/13/25 21:45	06/16/25 15:28	1
Calcium	<50		120	50	ug/L		06/13/25 21:45	06/16/25 15:28	1
Cobalt	<0.16		0.50	0.16	ug/L		06/13/25 21:45	06/16/25 15:28	1
Nickel	<0.40		1.0	0.40	ug/L		06/13/25 21:45	06/16/25 15:28	1

Lab Sample ID: LCS 410-657669/2-A

Matrix: Water

Analysis Batch: 657743

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 657669

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	100	95.1		ug/L		95	85 - 115
Arsenic	500	466		ug/L		93	86 - 111
Barium	500	479		ug/L		96	86 - 114
Beryllium	50.0	52.8		ug/L		106	80 - 120
Cadmium	50.0	46.8		ug/L		94	86 - 114
Chromium	500	469		ug/L		94	84 - 113
Copper	500	474		ug/L		95	86 - 111
Iron	5000	4710		ug/L		94	84 - 114
Lead	50.0	48.0		ug/L		96	86 - 114
Magnesium	5000	4730		ug/L		95	84 - 113
Manganese	500	472		ug/L		94	84 - 113
Potassium	5000	4860		ug/L		97	87 - 111
Selenium	100	94.4		ug/L		94	86 - 111
Silver	50.0	47.6		ug/L		95	88 - 116
Sodium	5000	4740		ug/L		95	84 - 114

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-657669/2-A

Matrix: Water

Analysis Batch: 657743

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 657669

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	100	94.2		ug/L		94	86 - 113
Zinc	500	478		ug/L		96	86 - 112
Vanadium	500	469		ug/L		94	84 - 112

Lab Sample ID: LCS 410-657669/2-A

Matrix: Water

Analysis Batch: 658478

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 657669

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5000	4880		ug/L		98	83 - 114
Calcium	5000	5040		ug/L		101	84 - 113
Cobalt	500	496		ug/L		99	85 - 112
Nickel	500	482		ug/L		96	85 - 113

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-656488/1-A

Matrix: Water

Analysis Batch: 656995

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 656488

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.087		0.20	0.087	ug/L		06/12/25 07:21	06/12/25 16:36	1

Lab Sample ID: LCS 410-656488/2-A

Matrix: Water

Analysis Batch: 656995

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 656488

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	1.05		ug/L		105	80 - 120

Method: 9040C - pH

Lab Sample ID: LCS 410-656901/1

Matrix: Water

Analysis Batch: 656901

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.1		S.U.		101	95 - 105

Lab Sample ID: 410-226639-6 DU

Matrix: Water

Analysis Batch: 656901

Client Sample ID: QM-R-265742-061025

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.9	HF	7.8		S.U.		0.8	4
Temperature	21.4	HF	21.3		Degrees C		0.5	4
Corrosivity	NO	HF	NO		NONE		NaN	

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Method: OIA-1677 - Cyanide, Free (Flow Injection)

Lab Sample ID: MB 410-657541/17

Matrix: Water

Analysis Batch: 657541

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	<0.0050		0.0060	0.0050	mg/L			06/13/25 12:07	1

Lab Sample ID: MB 410-657541/33

Matrix: Water

Analysis Batch: 657541

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	<0.0050		0.0060	0.0050	mg/L			06/13/25 12:47	1

Lab Sample ID: LCS 410-657541/16

Matrix: Water

Analysis Batch: 657541

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Free	0.0500	0.0493		mg/L		99	82 - 132

Lab Sample ID: LCS 410-657541/32

Matrix: Water

Analysis Batch: 657541

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Free	0.0500	0.0484		mg/L		97	82 - 132

Lab Sample ID: 410-226639-6 MS

Matrix: Water

Analysis Batch: 657541

Client Sample ID: QM-R-265742-061025

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Free	<0.0050		0.0500	0.0492		mg/L		98	82 - 130

Lab Sample ID: 410-226639-6 MSD

Matrix: Water

Analysis Batch: 657541

Client Sample ID: QM-R-265742-061025

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Free	<0.0050		0.0500	0.0489		mg/L		98	82 - 130	1	11

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

GC/MS VOA

Analysis Batch: 657229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226639-1	TB-061025	Total/NA	Water	8260D	
410-226639-2	QM-R-SV27472LM-061025	Total/NA	Water	8260D	
410-226639-3	QM-R-SV23192L-061025	Total/NA	Water	8260D	
410-226639-4	QM-R-SV27454LM-061025	Total/NA	Water	8260D	
410-226639-5	QM-R-260714-061025	Total/NA	Water	8260D	
410-226639-6	QM-R-265742-061025	Total/NA	Water	8260D	
MB 410-657229/8	Method Blank	Total/NA	Water	8260D	
LCS 410-657229/6	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 657932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226639-2	QM-R-SV27472LM-061025	Total/NA	Water	3510C	
410-226639-3	QM-R-SV23192L-061025	Total/NA	Water	3510C	
410-226639-4	QM-R-SV27454LM-061025	Total/NA	Water	3510C	
410-226639-5	QM-R-260714-061025	Total/NA	Water	3510C	
410-226639-6	QM-R-265742-061025	Total/NA	Water	3510C	
MB 410-657932/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-657932/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 658311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226639-2	QM-R-SV27472LM-061025	Total/NA	Water	8270D SIM	657932
410-226639-3	QM-R-SV23192L-061025	Total/NA	Water	8270D SIM	657932
410-226639-4	QM-R-SV27454LM-061025	Total/NA	Water	8270D SIM	657932
410-226639-5	QM-R-260714-061025	Total/NA	Water	8270D SIM	657932
410-226639-6	QM-R-265742-061025	Total/NA	Water	8270D SIM	657932
MB 410-657932/1-A	Method Blank	Total/NA	Water	8270D SIM	657932
LCS 410-657932/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	657932

GC VOA

Analysis Batch: 656648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226639-1	TB-061025	Total/NA	Water	8015D	
410-226639-2	QM-R-SV27472LM-061025	Total/NA	Water	8015D	
410-226639-3	QM-R-SV23192L-061025	Total/NA	Water	8015D	
410-226639-4	QM-R-SV27454LM-061025	Total/NA	Water	8015D	
410-226639-5	QM-R-260714-061025	Total/NA	Water	8015D	
410-226639-6	QM-R-265742-061025	Total/NA	Water	8015D	
MB 410-656648/5	Method Blank	Total/NA	Water	8015D	
LCS 410-656648/6	Lab Control Sample	Total/NA	Water	8015D	
LCSD 410-656648/7	Lab Control Sample Dup	Total/NA	Water	8015D	

GC Semi VOA

Prep Batch: 656505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226639-2	QM-R-SV27472LM-061025	Total/NA	Water	3510C	
410-226639-3	QM-R-SV23192L-061025	Total/NA	Water	3510C	
410-226639-4	QM-R-SV27454LM-061025	Total/NA	Water	3510C	

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

GC Semi VOA (Continued)

Prep Batch: 656505 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226639-5	QM-R-260714-061025	Total/NA	Water	3510C	
MB 410-656505/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-656505/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-656505/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 656613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226639-2	QM-R-SV27472LM-061025	Total/NA	Water	8015D	656505
410-226639-3	QM-R-SV23192L-061025	Total/NA	Water	8015D	656505
410-226639-4	QM-R-SV27454LM-061025	Total/NA	Water	8015D	656505
410-226639-5	QM-R-260714-061025	Total/NA	Water	8015D	656505
MB 410-656505/1-A	Method Blank	Total/NA	Water	8015D	656505
LCS 410-656505/2-A	Lab Control Sample	Total/NA	Water	8015D	656505
LCSD 410-656505/3-A	Lab Control Sample Dup	Total/NA	Water	8015D	656505

Prep Batch: 656628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226639-1	TB-061025	Total/NA	Water	8011	
410-226639-2	QM-R-SV27472LM-061025	Total/NA	Water	8011	
410-226639-3	QM-R-SV23192L-061025	Total/NA	Water	8011	
410-226639-4	QM-R-SV27454LM-061025	Total/NA	Water	8011	
410-226639-5	QM-R-260714-061025	Total/NA	Water	8011	
410-226639-6	QM-R-265742-061025	Total/NA	Water	8011	
MB 410-656628/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-656628/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-656628/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 656883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226639-1	TB-061025	Total/NA	Water	8011	656628
410-226639-2	QM-R-SV27472LM-061025	Total/NA	Water	8011	656628
410-226639-3	QM-R-SV23192L-061025	Total/NA	Water	8011	656628
410-226639-4	QM-R-SV27454LM-061025	Total/NA	Water	8011	656628
410-226639-5	QM-R-260714-061025	Total/NA	Water	8011	656628
410-226639-6	QM-R-265742-061025	Total/NA	Water	8011	656628
MB 410-656628/1-A	Method Blank	Total/NA	Water	8011	656628
LCS 410-656628/2-A	Lab Control Sample	Total/NA	Water	8011	656628
LCSD 410-656628/3-A	Lab Control Sample Dup	Total/NA	Water	8011	656628

Prep Batch: 657739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226639-2	QM-R-SV27472LM-061025	Total/NA	Water	3510C	
410-226639-3	QM-R-SV23192L-061025	Total/NA	Water	3510C	
410-226639-4	QM-R-SV27454LM-061025	Total/NA	Water	3510C	
410-226639-5	QM-R-260714-061025	Total/NA	Water	3510C	
410-226639-6	QM-R-265742-061025	Total/NA	Water	3510C	
MB 410-657739/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-657739/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-657739/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

GC Semi VOA

Prep Batch: 657759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226639-6	QM-R-265742-061025	Total/NA	Water	3510C	
MB 410-657759/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-657759/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-657759/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 657987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226639-2	QM-R-SV27472LM-061025	Total/NA	Water	8082A	657739
410-226639-3	QM-R-SV23192L-061025	Total/NA	Water	8082A	657739
410-226639-4	QM-R-SV27454LM-061025	Total/NA	Water	8082A	657739
410-226639-5	QM-R-260714-061025	Total/NA	Water	8082A	657739
410-226639-6	QM-R-265742-061025	Total/NA	Water	8082A	657739
MB 410-657739/1-A	Method Blank	Total/NA	Water	8082A	657739
LCS 410-657739/2-A	Lab Control Sample	Total/NA	Water	8082A	657739
LCSD 410-657739/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	657739

Analysis Batch: 658144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226639-6	QM-R-265742-061025	Total/NA	Water	8015D	657759
MB 410-657759/1-A	Method Blank	Total/NA	Water	8015D	657759
LCS 410-657759/2-A	Lab Control Sample	Total/NA	Water	8015D	657759
LCSD 410-657759/3-A	Lab Control Sample Dup	Total/NA	Water	8015D	657759

Analysis Batch: 658205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226639-2	QM-R-SV27472LM-061025	Total/NA	Water	PCB	
410-226639-3	QM-R-SV23192L-061025	Total/NA	Water	PCB	
410-226639-4	QM-R-SV27454LM-061025	Total/NA	Water	PCB	
410-226639-5	QM-R-260714-061025	Total/NA	Water	PCB	
410-226639-6	QM-R-265742-061025	Total/NA	Water	PCB	

HPLC/IC

Analysis Batch: 658571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226639-2	QM-R-SV27472LM-061025	Total/NA	Water	EPA 300.0 R2.1	
410-226639-4	QM-R-SV27454LM-061025	Total/NA	Water	EPA 300.0 R2.1	
410-226639-5	QM-R-260714-061025	Total/NA	Water	EPA 300.0 R2.1	
MB 410-658571/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-658571/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-658571/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 658574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226639-3	QM-R-SV23192L-061025	Total/NA	Water	EPA 300.0 R2.1	
MB 410-658574/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-658574/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-658574/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	
410-226639-3 MS	QM-R-SV23192L-061025	Total/NA	Water	EPA 300.0 R2.1	
410-226639-3 DU	QM-R-SV23192L-061025	Total/NA	Water	EPA 300.0 R2.1	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

HPLC/IC

Analysis Batch: 658869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226639-6	QM-R-265742-061025	Total/NA	Water	EPA 300.0 R2.1	
MB 410-658869/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-658869/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-658869/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 656488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226639-2	QM-R-SV27472LM-061025	Total/NA	Water	7470A	
410-226639-3	QM-R-SV23192L-061025	Total/NA	Water	7470A	
410-226639-4	QM-R-SV27454LM-061025	Total/NA	Water	7470A	
410-226639-5	QM-R-260714-061025	Total/NA	Water	7470A	
410-226639-6	QM-R-265742-061025	Total/NA	Water	7470A	
MB 410-656488/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-656488/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 656995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226639-2	QM-R-SV27472LM-061025	Total/NA	Water	7470A	656488
410-226639-3	QM-R-SV23192L-061025	Total/NA	Water	7470A	656488
410-226639-4	QM-R-SV27454LM-061025	Total/NA	Water	7470A	656488
410-226639-5	QM-R-260714-061025	Total/NA	Water	7470A	656488
410-226639-6	QM-R-265742-061025	Total/NA	Water	7470A	656488
MB 410-656488/1-A	Method Blank	Total/NA	Water	7470A	656488
LCS 410-656488/2-A	Lab Control Sample	Total/NA	Water	7470A	656488

Prep Batch: 657100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226639-2	QM-R-SV27472LM-061025	Total Recoverable	Water	3005A	
410-226639-4	QM-R-SV27454LM-061025	Total Recoverable	Water	3005A	
MB 410-657100/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-657100/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 657669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226639-3	QM-R-SV23192L-061025	Total Recoverable	Water	3005A	
410-226639-5	QM-R-260714-061025	Total Recoverable	Water	3005A	
410-226639-6	QM-R-265742-061025	Total Recoverable	Water	3005A	
MB 410-657669/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-657669/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 657743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226639-3	QM-R-SV23192L-061025	Total Recoverable	Water	6020B	657669
410-226639-5	QM-R-260714-061025	Total Recoverable	Water	6020B	657669
410-226639-6	QM-R-265742-061025	Total Recoverable	Water	6020B	657669
MB 410-657669/1-A	Method Blank	Total Recoverable	Water	6020B	657669
LCS 410-657669/2-A	Lab Control Sample	Total Recoverable	Water	6020B	657669

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Metals

Analysis Batch: 658478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226639-2	QM-R-SV27472LM-061025	Total Recoverable	Water	6020B	657100
410-226639-3	QM-R-SV23192L-061025	Total Recoverable	Water	6020B	657669
410-226639-4	QM-R-SV27454LM-061025	Total Recoverable	Water	6020B	657100
410-226639-5	QM-R-260714-061025	Total Recoverable	Water	6020B	657669
410-226639-6	QM-R-265742-061025	Total Recoverable	Water	6020B	657669
MB 410-657100/1-A	Method Blank	Total Recoverable	Water	6020B	657100
MB 410-657669/1-A	Method Blank	Total Recoverable	Water	6020B	657669
LCS 410-657100/2-A	Lab Control Sample	Total Recoverable	Water	6020B	657100
LCS 410-657669/2-A	Lab Control Sample	Total Recoverable	Water	6020B	657669

General Chemistry

Analysis Batch: 656901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226639-2	QM-R-SV27472LM-061025	Total/NA	Water	9040C	
410-226639-3	QM-R-SV23192L-061025	Total/NA	Water	9040C	
410-226639-4	QM-R-SV27454LM-061025	Total/NA	Water	9040C	
410-226639-5	QM-R-260714-061025	Total/NA	Water	9040C	
410-226639-6	QM-R-265742-061025	Total/NA	Water	9040C	
LCS 410-656901/1	Lab Control Sample	Total/NA	Water	9040C	
410-226639-6 DU	QM-R-265742-061025	Total/NA	Water	9040C	

Analysis Batch: 657541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-226639-2	QM-R-SV27472LM-061025	Total/NA	Water	OIA-1677	
410-226639-3	QM-R-SV23192L-061025	Total/NA	Water	OIA-1677	
410-226639-4	QM-R-SV27454LM-061025	Total/NA	Water	OIA-1677	
410-226639-5	QM-R-260714-061025	Total/NA	Water	OIA-1677	
410-226639-6	QM-R-265742-061025	Total/NA	Water	OIA-1677	
MB 410-657541/17	Method Blank	Total/NA	Water	OIA-1677	
MB 410-657541/33	Method Blank	Total/NA	Water	OIA-1677	
LCS 410-657541/16	Lab Control Sample	Total/NA	Water	OIA-1677	
LCS 410-657541/32	Lab Control Sample	Total/NA	Water	OIA-1677	
410-226639-6 MS	QM-R-265742-061025	Total/NA	Water	OIA-1677	
410-226639-6 MSD	QM-R-265742-061025	Total/NA	Water	OIA-1677	

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Client Sample ID: TB-061025

Lab Sample ID: 410-226639-1

Date Collected: 06/10/25 07:00

Matrix: Water

Date Received: 06/10/25 18:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	657229	N7YK	ELLE	06/13/25 14:46
Total/NA	Analysis	8015D		1	656648	P5AM	ELLE	06/12/25 17:11
Total/NA	Prep	8011			656628	K2IL	ELLE	06/12/25 09:22
Total/NA	Analysis	8011		1	656883	M6UH	ELLE	06/13/25 05:43

Client Sample ID: QM-R-SV27472LM-061025

Lab Sample ID: 410-226639-2

Date Collected: 06/10/25 10:25

Matrix: Water

Date Received: 06/10/25 18:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	657229	N7YK	ELLE	06/13/25 15:08
Total/NA	Prep	3510C			657932	XU9L	ELLE	06/16/25 07:29
Total/NA	Analysis	8270D SIM		1	658311	UJM0	ELLE	06/16/25 20:08
Total/NA	Analysis	8015D		1	656648	P5AM	ELLE	06/12/25 21:26
Total/NA	Prep	8011			656628	K2IL	ELLE	06/12/25 09:22
Total/NA	Analysis	8011		1	656883	M6UH	ELLE	06/13/25 06:00
Total/NA	Prep	3510C			656505	QKX3	ELLE	06/12/25 07:27
Total/NA	Analysis	8015D		1	656613	KP5X	ELLE	06/13/25 08:44
Total/NA	Prep	3510C			657739	ZFS6	ELLE	06/14/25 09:32
Total/NA	Analysis	8082A		1	657987	M6UH	ELLE	06/16/25 10:11
Total/NA	Analysis	PCB		1	658205	M6UH	ELLE	06/16/25 10:11
Total/NA	Analysis	EPA 300.0 R2.1		1	658571	PYC6	ELLE	06/16/25 19:21
Total Recoverable	Prep	3005A			657100	X3ZX	ELLE	06/13/25 07:25
Total Recoverable	Analysis	6020B		1	658478	LHF4	ELLE	06/16/25 19:47
Total/NA	Prep	7470A			656488	UJL8	ELLE	06/12/25 07:21
Total/NA	Analysis	7470A		1	656995	IJ3I	ELLE	06/12/25 16:53
Total/NA	Analysis	9040C		1	656901	DI9Q	ELLE	06/12/25 15:56
Total/NA	Analysis	OIA-1677		1	657541	UJE2	ELLE	06/13/25 12:27

Client Sample ID: QM-R-SV23192L-061025

Lab Sample ID: 410-226639-3

Date Collected: 06/10/25 10:45

Matrix: Water

Date Received: 06/10/25 18:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	657229	N7YK	ELLE	06/13/25 15:31
Total/NA	Prep	3510C			657932	XU9L	ELLE	06/16/25 07:29
Total/NA	Analysis	8270D SIM		1	658311	UJM0	ELLE	06/16/25 20:29
Total/NA	Analysis	8015D		1	656648	P5AM	ELLE	06/12/25 21:51
Total/NA	Prep	8011			656628	K2IL	ELLE	06/12/25 09:22
Total/NA	Analysis	8011		1	656883	M6UH	ELLE	06/13/25 06:17
Total/NA	Prep	3510C			656505	QKX3	ELLE	06/12/25 07:27
Total/NA	Analysis	8015D		1	656613	KP5X	ELLE	06/13/25 09:07
Total/NA	Prep	3510C			657739	ZFS6	ELLE	06/14/25 09:32
Total/NA	Analysis	8082A		1	657987	M6UH	ELLE	06/16/25 10:24

Eurofins Lancaster Laboratories Environment Testing, LLC

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Client Sample ID: QM-R-SV23192L-061025

Lab Sample ID: 410-226639-3

Date Collected: 06/10/25 10:45

Matrix: Water

Date Received: 06/10/25 18:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	PCB		1	658205	M6UH	ELLE	06/16/25 10:24
Total/NA	Analysis	EPA 300.0 R2.1		1	658574	L4QM	ELLE	06/17/25 02:26
Total Recoverable	Prep	3005A			657669	UAMX	ELLE	06/13/25 21:45
Total Recoverable	Analysis	6020B		1	657743	F7JF	ELLE	06/14/25 09:15
Total Recoverable	Prep	3005A			657669	UAMX	ELLE	06/13/25 21:45
Total Recoverable	Analysis	6020B		1	658478	LHF4	ELLE	06/16/25 15:32
Total/NA	Prep	7470A			656488	UJL8	ELLE	06/12/25 07:21
Total/NA	Analysis	7470A		1	656995	IJ3I	ELLE	06/12/25 16:55
Total/NA	Analysis	9040C		1	656901	DI9Q	ELLE	06/12/25 15:56
Total/NA	Analysis	OIA-1677		1	657541	UJE2	ELLE	06/13/25 12:22

Client Sample ID: QM-R-SV27454LM-061025

Lab Sample ID: 410-226639-4

Date Collected: 06/10/25 11:10

Matrix: Water

Date Received: 06/10/25 18:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	657229	N7YK	ELLE	06/13/25 15:55
Total/NA	Prep	3510C			657932	XU9L	ELLE	06/16/25 07:29
Total/NA	Analysis	8270D SIM		1	658311	UJM0	ELLE	06/16/25 20:50
Total/NA	Analysis	8015D		1	656648	P5AM	ELLE	06/12/25 22:16
Total/NA	Prep	8011			656628	K2IL	ELLE	06/12/25 09:22
Total/NA	Analysis	8011		1	656883	M6UH	ELLE	06/13/25 06:34
Total/NA	Prep	3510C			656505	QKX3	ELLE	06/12/25 07:27
Total/NA	Analysis	8015D		1	656613	KP5X	ELLE	06/13/25 09:30
Total/NA	Prep	3510C			657739	ZFS6	ELLE	06/14/25 09:32
Total/NA	Analysis	8082A		1	657987	M6UH	ELLE	06/16/25 10:37
Total/NA	Analysis	PCB		1	658205	M6UH	ELLE	06/16/25 10:37
Total/NA	Analysis	EPA 300.0 R2.1		1	658571	PYC6	ELLE	06/16/25 19:12
Total Recoverable	Prep	3005A			657100	X3ZX	ELLE	06/13/25 07:25
Total Recoverable	Analysis	6020B		1	658478	LHF4	ELLE	06/16/25 19:49
Total/NA	Prep	7470A			656488	UJL8	ELLE	06/12/25 07:21
Total/NA	Analysis	7470A		1	656995	IJ3I	ELLE	06/12/25 16:57
Total/NA	Analysis	9040C		1	656901	DI9Q	ELLE	06/12/25 15:56
Total/NA	Analysis	OIA-1677		1	657541	UJE2	ELLE	06/13/25 12:20

Client Sample ID: QM-R-260714-061025

Lab Sample ID: 410-226639-5

Date Collected: 06/10/25 10:45

Matrix: Water

Date Received: 06/10/25 18:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	657229	N7YK	ELLE	06/13/25 16:16
Total/NA	Prep	3510C			657932	XU9L	ELLE	06/16/25 07:29
Total/NA	Analysis	8270D SIM		1	658311	UJM0	ELLE	06/16/25 21:11
Total/NA	Analysis	8015D		1	656648	P5AM	ELLE	06/12/25 22:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Client Sample ID: QM-R-260714-061025

Lab Sample ID: 410-226639-5

Date Collected: 06/10/25 10:45

Matrix: Water

Date Received: 06/10/25 18:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	8011			656628	K2IL	ELLE	06/12/25 09:22
Total/NA	Analysis	8011		1	656883	M6UH	ELLE	06/13/25 06:51
Total/NA	Prep	3510C			656505	QKX3	ELLE	06/12/25 07:27
Total/NA	Analysis	8015D		1	656613	KP5X	ELLE	06/13/25 09:52
Total/NA	Prep	3510C			657739	ZFS6	ELLE	06/14/25 09:32
Total/NA	Analysis	8082A		1	657987	M6UH	ELLE	06/16/25 10:50
Total/NA	Analysis	PCB		1	658205	M6UH	ELLE	06/16/25 10:50
Total/NA	Analysis	EPA 300.0 R2.1		5	658571	PYC6	ELLE	06/16/25 20:42
Total Recoverable	Prep	3005A			657669	UAMX	ELLE	06/13/25 21:45
Total Recoverable	Analysis	6020B		1	657743	F7JF	ELLE	06/14/25 09:18
Total Recoverable	Prep	3005A			657669	UAMX	ELLE	06/13/25 21:45
Total Recoverable	Analysis	6020B		1	658478	LHF4	ELLE	06/16/25 15:35
Total/NA	Prep	7470A			656488	UJL8	ELLE	06/12/25 07:21
Total/NA	Analysis	7470A		1	656995	IJ3I	ELLE	06/12/25 16:59
Total/NA	Analysis	9040C		1	656901	DI9Q	ELLE	06/12/25 15:56
Total/NA	Analysis	OIA-1677		1	657541	UJE2	ELLE	06/13/25 12:25

Client Sample ID: QM-R-265742-061025

Lab Sample ID: 410-226639-6

Date Collected: 06/10/25 11:30

Matrix: Water

Date Received: 06/10/25 18:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	657229	N7YK	ELLE	06/13/25 16:38
Total/NA	Prep	3510C			657932	XU9L	ELLE	06/16/25 07:29
Total/NA	Analysis	8270D SIM		1	658311	UJM0	ELLE	06/16/25 21:33
Total/NA	Analysis	8015D		1	656648	P5AM	ELLE	06/12/25 23:07
Total/NA	Prep	8011			656628	K2IL	ELLE	06/12/25 09:22
Total/NA	Analysis	8011		1	656883	M6UH	ELLE	06/13/25 07:08
Total/NA	Prep	3510C			657759	T9CY	ELLE	06/14/25 16:25
Total/NA	Analysis	8015D		1	658144	KP5X	ELLE	06/16/25 18:29
Total/NA	Prep	3510C			657739	ZFS6	ELLE	06/14/25 09:32
Total/NA	Analysis	8082A		1	657987	M6UH	ELLE	06/16/25 11:03
Total/NA	Analysis	PCB		1	658205	M6UH	ELLE	06/16/25 11:03
Total/NA	Analysis	EPA 300.0 R2.1		5	658869	PYC6	ELLE	06/17/25 13:04
Total Recoverable	Prep	3005A			657669	UAMX	ELLE	06/13/25 21:45
Total Recoverable	Analysis	6020B		1	657743	F7JF	ELLE	06/14/25 09:20
Total Recoverable	Prep	3005A			657669	UAMX	ELLE	06/13/25 21:45
Total Recoverable	Analysis	6020B		1	658478	LHF4	ELLE	06/16/25 15:37
Total/NA	Prep	7470A			656488	UJL8	ELLE	06/12/25 07:21
Total/NA	Analysis	7470A		1	656995	IJ3I	ELLE	06/12/25 17:01
Total/NA	Analysis	9040C		1	656901	DI9Q	ELLE	06/12/25 15:56
Total/NA	Analysis	OIA-1677		1	657541	UJE2	ELLE	06/13/25 12:50

Eurofins Lancaster Laboratories Environment Testing, LLC

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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Accreditation/Certification Summary

Client: Tetra Tech Inc

Job ID: 410-226639-1

Project/Site: Soil and Water Analysis - QL Frederick

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-26
A2LA	Dept. of Energy	0001.01	11-30-26
A2LA	ISO/IEC 17025	0001.01	11-30-26
Alabama	State	43200	01-31-26
Alaska	State	PA00009	06-30-25
Alaska (UST)	State	17-027	12-30-26
Arizona	State	AZ0780	03-12-26
Arkansas DEQ	State	88-00660	08-09-25
California	State	2792	01-31-26
Colorado	State	PA00009	06-30-25
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-26
Delaware (DW)	State	N/A	01-31-26
Florida	NELAP	E87997	06-30-25
Georgia (DW)	State	C048	01-31-26
Illinois	NELAP	200027	01-31-26
Iowa	State	361	03-01-26
Kansas	NELAP	E-10151	10-31-25
Kentucky (DW)	State	KY90088	12-31-25
Kentucky (UST)	State	0001.01	11-30-26
Kentucky (WW)	State	KY90088	12-31-25
Louisiana (All)	NELAP	02055	06-30-25
Maine	State	2019012	03-12-27
Maryland	State	100	06-30-25
Massachusetts	State	M-PA009	06-30-26
Michigan	State	9930	01-31-26
Minnesota	NELAP	042-999-487	12-31-25
Mississippi	State	023	01-31-26
Missouri	State	450	01-31-28
Montana (DW)	State	0098	01-01-26
Nebraska	State	NE-OS-32-17	01-31-26
New Hampshire	NELAP	2730	01-10-26
New Jersey	NELAP	PA011	06-30-25
New York	NELAP	10670	04-01-26
North Carolina (DW)	State	42705	07-31-25
North Carolina (WW/SW)	State	521	12-31-25
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-25
Oregon	NELAP	PA200001	09-11-25
Pennsylvania	NELAP	36-00037	01-31-26
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-29
Rhode Island	State	LAO00338	12-30-25
South Carolina	State	89002	01-31-26
Tennessee	State	02838	01-31-26
Texas	NELAP	T104704194-23-46	08-31-25
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-25
Virginia	NELAP	460182	06-14-26
Washington	State	C457	04-11-26

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

Eurofins Lancaster Laboratories Environment Testing, LLC

Accreditation/Certification Summary

Client: Tetra Tech Inc

Job ID: 410-226639-1

Project/Site: Soil and Water Analysis - QL Frederick

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date
West Virginia (DW)	State	9906 C	03-31-26
West Virginia DEP	State	055	07-31-25
Wyoming	State	8TMS-L	01-31-26
Wyoming (UST)	A2LA	0001.01	11-30-26

Method Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-226639-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	ELLE
8015D	Gasoline Range Organics (GRO) (GC)	SW846	ELLE
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
8015D	Diesel Range Organics (DRO) (GC)	SW846	ELLE
8082A	Polychlorinated Biphenyls (PCBs) (GC)	SW846	ELLE
PCB	Total PCB Calculation	TAL SOP	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6020B	Metals (ICP/MS)	SW846	ELLE
7470A	Mercury (CVAA)	SW846	ELLE
9040C	pH	SW846	ELLE
OIA-1677	Cyanide, Free (Flow Injection)	OI CORP	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
7470A	Preparation, Mercury	SW846	ELLE
8011	Microextraction	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

OI CORP = OI Corporation Instrument Manual.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Tetra Tech Inc

Job ID: 410-226639-1

Project/Site: Soil and Water Analysis - QL Frederick

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-226639-1	TB-061025	Water	06/10/25 07:00	06/10/25 18:15
410-226639-2	QM-R-SV27472LM-061025	Water	06/10/25 10:25	06/10/25 18:15
410-226639-3	QM-R-SV23192L-061025	Water	06/10/25 10:45	06/10/25 18:15
410-226639-4	QM-R-SV27454LM-061025	Water	06/10/25 11:10	06/10/25 18:15
410-226639-5	QM-R-260714-061025	Water	06/10/25 10:45	06/10/25 18:15
410-226639-6	QM-R-265742-061025	Water	06/10/25 11:30	06/10/25 18:15



Chain of Custody Record



Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 410-226639-1

Login Number: 226639

List Number: 1

Creator: Reiff, Nicole L

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(<=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (<=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	



ANALYTICAL REPORT

PREPARED FOR

Attn: Josh Mullis
Tetra Tech Inc
20251 Century Blvd
Suite 200
Germantown, Maryland 20874

Generated 6/20/2025 5:13:42 AM

JOB DESCRIPTION

Soil and Water Analysis - QL Frederick

JOB NUMBER

410-227023-1

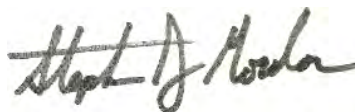
Eurofins Lancaster Laboratories Environment Testing, LLC

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
6/20/2025 5:13:42 AM

Authorized for release by
Stephen Gordon, Senior Project Manager
Stephen.Gordon@et.eurofinsus.com
(412)525-0071

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
 - Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
 - Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

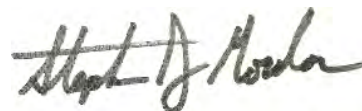


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Definitions/Glossary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-227023-1

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.

Metals

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.

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.

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 Inc
Project: Soil and Water Analysis - QL Frederick

Job ID: 410-227023-1

Job ID: 410-227023-1

Eurofins Lancaster Laboratories Environment

Job Narrative 410-227023-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 6/12/2025 5:55 PM. 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 time was 2.0°C.

GC/MS VOA

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

GC/MS Semi VOA

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

Gasoline Range Organics

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

Diesel Range Organics

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

GC Semi VOA

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

PCBs

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

HPLC/IC

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

Metals

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

General Chemistry

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

Detection Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-227023-1

Client Sample ID: TB-061225

Lab Sample ID: 410-227023-1

No Detections.

Client Sample ID: QM-R-251186-061225

Lab Sample ID: 410-227023-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloromethane	0.22	J	0.50	0.10	ug/L			1	8260D	Total/NA
Tetrachloroethene	0.30	J	0.50	0.20	ug/L			1	8260D	Total/NA
Trichloroethene	0.13	J	0.50	0.080	ug/L			1	8260D	Total/NA
Naphthalene	0.097		0.072	0.070	ug/L			1	8270D SIM	Total/NA
Fluoride	2.9		0.20	0.10	mg/L			1	EPA 300.0 R2.1	Total/NA
Aluminum	44		25	12	ug/L			1	6020B	Total Recoverable
Antimony	0.25	J	1.0	0.20	ug/L			1	6020B	Total Recoverable
Arsenic	0.91	J	2.0	0.68	ug/L			1	6020B	Total Recoverable
Barium	30		2.0	0.75	ug/L			1	6020B	Total Recoverable
Calcium	100000		120	50	ug/L			1	6020B	Total Recoverable
Cobalt	0.56		0.50	0.16	ug/L			1	6020B	Total Recoverable
Iron	160		50	20	ug/L			1	6020B	Total Recoverable
Magnesium	16000		50	16	ug/L			1	6020B	Total Recoverable
Manganese	88		2.0	0.95	ug/L			1	6020B	Total Recoverable
Nickel	1.6		1.0	0.40	ug/L			1	6020B	Total Recoverable
Potassium	3000	B	200	65	ug/L			1	6020B	Total Recoverable
Selenium	1.3		1.0	0.28	ug/L			1	6020B	Total Recoverable
Sodium	78000		200	90	ug/L			1	6020B	Total Recoverable
Zinc	240		10	4.0	ug/L			1	6020B	Total Recoverable
pH	7.9	HF	0.01	0.01	S.U.			1	9040C	Total/NA
Temperature	18.8	HF	0.01	0.01	Degrees C			1	9040C	Total/NA
Corrosivity	NO	HF	0.01	0.01	NONE			1	9040C	Total/NA

Client Sample ID: QM-R-252069-061225

Lab Sample ID: 410-227023-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloromethane	0.10	J	0.50	0.10	ug/L			1	8260D	Total/NA
Pyrene	0.027	J	0.053	0.022	ug/L			1	8270D SIM	Total/NA
PCB-1248 (2C)	0.018		0.0099	0.0080	ug/L			1	8082A	Total/NA
PCB-1254 (1C)	0.056		0.0099	0.0050	ug/L			1	8082A	Total/NA
PCB-1260 (1C)	0.11		0.0099	0.0050	ug/L			1	8082A	Total/NA
PCB-1248	0.018		0.0099	0.0080	ug/L			1	PCB	Total/NA
PCB-1254	0.056		0.0099	0.0050	ug/L			1	PCB	Total/NA
PCB-1260	0.11		0.0099	0.0050	ug/L			1	PCB	Total/NA
Polychlorinated biphenyls, Total	0.18		0.0099	0.0080	ug/L			1	PCB	Total/NA
Fluoride	4.5		2.0	1.0	mg/L			10	EPA 300.0 R2.1	Total/NA
Aluminum	48		25	12	ug/L			1	6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-227023-1

Client Sample ID: QM-R-252069-061225 (Continued)

Lab Sample ID: 410-227023-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.2	J	2.0	0.68	ug/L	1		6020B	Total
									Recoverable
Barium	34		2.0	0.75	ug/L	1		6020B	Total
									Recoverable
Calcium	84000		120	50	ug/L	1		6020B	Total
									Recoverable
Chromium	1.6	J	2.0	0.55	ug/L	1		6020B	Total
									Recoverable
Cobalt	0.33	J	0.50	0.16	ug/L	1		6020B	Total
									Recoverable
Iron	55		50	20	ug/L	1		6020B	Total
									Recoverable
Lead	0.12	J	0.50	0.12	ug/L	1		6020B	Total
									Recoverable
Magnesium	15000		50	16	ug/L	1		6020B	Total
									Recoverable
Manganese	18		2.0	0.95	ug/L	1		6020B	Total
									Recoverable
Nickel	0.75	J	1.0	0.40	ug/L	1		6020B	Total
									Recoverable
Potassium	4200	B	200	65	ug/L	1		6020B	Total
									Recoverable
Selenium	0.70	J	1.0	0.28	ug/L	1		6020B	Total
									Recoverable
Sodium	48000		200	90	ug/L	1		6020B	Total
									Recoverable
pH	7.9	HF	0.01	0.01	S.U.	1		9040C	Total/NA
Temperature	19.4	HF	0.01	0.01	Degrees C	1		9040C	Total/NA
Corrosivity	NO	HF	0.01	0.01	NONE	1		9040C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-227023-1

Client Sample ID: TB-061225

Lab Sample ID: 410-227023-1

Date Collected: 06/12/25 07:00

Matrix: Water

Date Received: 06/12/25 17:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.080		0.50	0.080	ug/L			06/18/25 12:06	1
1,1,1,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			06/18/25 12:06	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			06/18/25 12:06	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			06/18/25 12:06	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			06/18/25 12:06	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			06/18/25 12:06	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			06/18/25 12:06	1
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			06/18/25 12:06	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/18/25 12:06	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			06/18/25 12:06	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			06/18/25 12:06	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/18/25 12:06	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/18/25 12:06	1
2-Butanone	<1.0		5.0	1.0	ug/L			06/18/25 12:06	1
2-Hexanone	<2.0		5.0	2.0	ug/L			06/18/25 12:06	1
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			06/18/25 12:06	1
Acetone	<1.5		5.0	1.5	ug/L			06/18/25 12:06	1
Benzene	<0.10		0.50	0.10	ug/L			06/18/25 12:06	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			06/18/25 12:06	1
Bromoform	<0.30		1.0	0.30	ug/L			06/18/25 12:06	1
Bromomethane	<0.10		0.50	0.10	ug/L			06/18/25 12:06	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			06/18/25 12:06	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			06/18/25 12:06	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			06/18/25 12:06	1
Chloroethane	<0.10		0.50	0.10	ug/L			06/18/25 12:06	1
Chloroform	<0.090		0.50	0.090	ug/L			06/18/25 12:06	1
Chloromethane	<0.10		0.50	0.10	ug/L			06/18/25 12:06	1
cis-1,2-Dichloroethene	<0.080		0.50	0.080	ug/L			06/18/25 12:06	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			06/18/25 12:06	1
Cyclohexane	<0.10		0.50	0.10	ug/L			06/18/25 12:06	1
Dibromochloromethane	<0.080		0.50	0.080	ug/L			06/18/25 12:06	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			06/18/25 12:06	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			06/18/25 12:06	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			06/18/25 12:06	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			06/18/25 12:06	1
Methyl acetate	<0.20		1.0	0.20	ug/L			06/18/25 12:06	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			06/18/25 12:06	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			06/18/25 12:06	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			06/18/25 12:06	1
Styrene	<0.070		0.50	0.070	ug/L			06/18/25 12:06	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			06/18/25 12:06	1
Toluene	<0.080		0.50	0.080	ug/L			06/18/25 12:06	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			06/18/25 12:06	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			06/18/25 12:06	1
Trichloroethene	<0.080		0.50	0.080	ug/L			06/18/25 12:06	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			06/18/25 12:06	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			06/18/25 12:06	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			06/18/25 12:06	1

Eurolins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-227023-1

Client Sample ID: TB-061225

Lab Sample ID: 410-227023-1

Date Collected: 06/12/25 07:00

Matrix: Water

Date Received: 06/12/25 17:55

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		80 - 120		06/18/25 12:06	1
4-Bromofluorobenzene (Surr)	92		80 - 120		06/18/25 12:06	1
Dibromofluoromethane (Surr)	111		80 - 120		06/18/25 12:06	1
Toluene-d8 (Surr)	104		80 - 120		06/18/25 12:06	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			06/16/25 15:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid) (1C)	93		63 - 135		06/16/25 15:38	1

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	<0.0094		0.019	0.0094	ug/L		06/16/25 09:48	06/17/25 15:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	111		46 - 136	06/16/25 09:48	06/17/25 15:53	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	108		46 - 136	06/16/25 09:48	06/17/25 15:53	1

Client Sample ID: QM-R-251186-061225

Lab Sample ID: 410-227023-2

Date Collected: 06/12/25 11:45

Matrix: Water

Date Received: 06/12/25 17:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.080		0.50	0.080	ug/L			06/18/25 13:13	1
1,1,2,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			06/18/25 13:13	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			06/18/25 13:13	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			06/18/25 13:13	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			06/18/25 13:13	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			06/18/25 13:13	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			06/18/25 13:13	1
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			06/18/25 13:13	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/18/25 13:13	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			06/18/25 13:13	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			06/18/25 13:13	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/18/25 13:13	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/18/25 13:13	1
2-Butanone	<1.0		5.0	1.0	ug/L			06/18/25 13:13	1
2-Hexanone	<2.0		5.0	2.0	ug/L			06/18/25 13:13	1
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			06/18/25 13:13	1
Acetone	<1.5		5.0	1.5	ug/L			06/18/25 13:13	1
Benzene	<0.10		0.50	0.10	ug/L			06/18/25 13:13	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			06/18/25 13:13	1
Bromoform	<0.30		1.0	0.30	ug/L			06/18/25 13:13	1
Bromomethane	<0.10		0.50	0.10	ug/L			06/18/25 13:13	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			06/18/25 13:13	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			06/18/25 13:13	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			06/18/25 13:13	1
Chloroethane	<0.10		0.50	0.10	ug/L			06/18/25 13:13	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-227023-1

Client Sample ID: QM-R-251186-061225

Lab Sample ID: 410-227023-2

Date Collected: 06/12/25 11:45

Matrix: Water

Date Received: 06/12/25 17:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.090		0.50	0.090	ug/L			06/18/25 13:13	1
Chloromethane	0.22	J	0.50	0.10	ug/L			06/18/25 13:13	1
cis-1,2-Dichloroethene	<0.080		0.50	0.080	ug/L			06/18/25 13:13	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			06/18/25 13:13	1
Cyclohexane	<0.10		0.50	0.10	ug/L			06/18/25 13:13	1
Dibromochloromethane	<0.080		0.50	0.080	ug/L			06/18/25 13:13	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			06/18/25 13:13	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			06/18/25 13:13	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			06/18/25 13:13	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			06/18/25 13:13	1
Methyl acetate	<0.20		1.0	0.20	ug/L			06/18/25 13:13	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			06/18/25 13:13	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			06/18/25 13:13	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			06/18/25 13:13	1
Styrene	<0.070		0.50	0.070	ug/L			06/18/25 13:13	1
Tetrachloroethene	0.30	J	0.50	0.20	ug/L			06/18/25 13:13	1
Toluene	<0.080		0.50	0.080	ug/L			06/18/25 13:13	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			06/18/25 13:13	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			06/18/25 13:13	1
Trichloroethene	0.13	J	0.50	0.080	ug/L			06/18/25 13:13	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			06/18/25 13:13	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			06/18/25 13:13	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			06/18/25 13:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		80 - 120		06/18/25 13:13	1
4-Bromofluorobenzene (Surr)	93		80 - 120		06/18/25 13:13	1
Dibromofluoromethane (Surr)	111		80 - 120		06/18/25 13:13	1
Toluene-d8 (Surr)	105		80 - 120		06/18/25 13:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.010		0.051	0.010	ug/L		06/18/25 15:25	06/19/25 20:46	1
Acenaphthylene	<0.010		0.051	0.010	ug/L		06/18/25 15:25	06/19/25 20:46	1
Anthracene	<0.010		0.051	0.010	ug/L		06/18/25 15:25	06/19/25 20:46	1
Benzo[a]anthracene	<0.010		0.051	0.010	ug/L		06/18/25 15:25	06/19/25 20:46	1
Benzo[a]pyrene	<0.010		0.051	0.010	ug/L		06/18/25 15:25	06/19/25 20:46	1
Benzo[b]fluoranthene	<0.048		0.051	0.048	ug/L		06/18/25 15:25	06/19/25 20:46	1
Benzo[g,h,i]perylene	<0.010		0.051	0.010	ug/L		06/18/25 15:25	06/19/25 20:46	1
Benzo[k]fluoranthene	<0.010		0.051	0.010	ug/L		06/18/25 15:25	06/19/25 20:46	1
Chrysene	<0.026		0.051	0.026	ug/L		06/18/25 15:25	06/19/25 20:46	1
Dibenz(a,h)anthracene	<0.021		0.051	0.021	ug/L		06/18/25 15:25	06/19/25 20:46	1
Fluoranthene	<0.024		0.051	0.024	ug/L		06/18/25 15:25	06/19/25 20:46	1
Fluorene	<0.010		0.051	0.010	ug/L		06/18/25 15:25	06/19/25 20:46	1
Indeno[1,2,3-cd]pyrene	<0.021		0.051	0.021	ug/L		06/18/25 15:25	06/19/25 20:46	1
Naphthalene	0.097		0.072	0.070	ug/L		06/18/25 15:25	06/19/25 20:46	1
Phenanthrene	<0.031		0.072	0.031	ug/L		06/18/25 15:25	06/19/25 20:46	1
Pyrene	<0.022		0.051	0.022	ug/L		06/18/25 15:25	06/19/25 20:46	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-227023-1

Client Sample ID: QM-R-251186-061225

Lab Sample ID: 410-227023-2

Date Collected: 06/12/25 11:45

Matrix: Water

Date Received: 06/12/25 17:55

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	44		10 - 121	06/18/25 15:25	06/19/25 20:46	1
1-Methylnaphthalene-d10 (Surr)	67		30 - 127	06/18/25 15:25	06/19/25 20:46	1
Fluoranthene-d10 (Surr)	77		34 - 130	06/18/25 15:25	06/19/25 20:46	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			06/16/25 22:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid) (1C)	97		63 - 135		06/16/25 22:53	1

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	<0.0094		0.019	0.0094	ug/L		06/16/25 09:48	06/17/25 16:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	117		46 - 136	06/16/25 09:48	06/17/25 16:10	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	105		46 - 136	06/16/25 09:48	06/17/25 16:10	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	<49		110	49	ug/L		06/18/25 16:09	06/19/25 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-terphenyl (Surr)	83		32 - 125	06/18/25 16:09	06/19/25 14:18	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	<0.0082		0.010	0.0082	ug/L		06/14/25 09:32	06/16/25 11:16	1
PCB-1221 (1C)	<0.0082		0.010	0.0082	ug/L		06/14/25 09:32	06/16/25 11:16	1
PCB-1232 (1C)	<0.0082		0.010	0.0082	ug/L		06/14/25 09:32	06/16/25 11:16	1
PCB-1242 (1C)	<0.0082		0.010	0.0082	ug/L		06/14/25 09:32	06/16/25 11:16	1
PCB-1248 (1C)	<0.0082		0.010	0.0082	ug/L		06/14/25 09:32	06/16/25 11:16	1
PCB-1254 (1C)	<0.0051		0.010	0.0051	ug/L		06/14/25 09:32	06/16/25 11:16	1
PCB-1260 (1C)	<0.0051		0.010	0.0051	ug/L		06/14/25 09:32	06/16/25 11:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	108		46 - 161	06/14/25 09:32	06/16/25 11:16	1
DCB Decachlorobiphenyl (Surr) (2C)	99		46 - 161	06/14/25 09:32	06/16/25 11:16	1
Tetrachloro-m-xylene (1C)	75		41 - 146	06/14/25 09:32	06/16/25 11:16	1
Tetrachloro-m-xylene (2C)	70		41 - 146	06/14/25 09:32	06/16/25 11:16	1

Method: TAL SOP PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0082		0.010	0.0082	ug/L			06/16/25 11:16	1
PCB-1221	<0.0082		0.010	0.0082	ug/L			06/16/25 11:16	1
PCB-1232	<0.0082		0.010	0.0082	ug/L			06/16/25 11:16	1
PCB-1242	<0.0082		0.010	0.0082	ug/L			06/16/25 11:16	1
PCB-1248	<0.0082		0.010	0.0082	ug/L			06/16/25 11:16	1
PCB-1254	<0.0051		0.010	0.0051	ug/L			06/16/25 11:16	1
PCB-1260	<0.0051		0.010	0.0051	ug/L			06/16/25 11:16	1
Polychlorinated biphenyls, Total	<0.0082		0.010	0.0082	ug/L			06/16/25 11:16	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-227023-1

Client Sample ID: QM-R-251186-061225

Lab Sample ID: 410-227023-2

Date Collected: 06/12/25 11:45

Matrix: Water

Date Received: 06/12/25 17:55

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.9		0.20	0.10	mg/L			06/19/25 01:03	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	44		25	12	ug/L		06/15/25 21:30	06/18/25 10:47	1
Antimony	0.25	J	1.0	0.20	ug/L		06/15/25 21:30	06/18/25 10:47	1
Arsenic	0.91	J	2.0	0.68	ug/L		06/15/25 21:30	06/18/25 10:47	1
Barium	30		2.0	0.75	ug/L		06/15/25 21:30	06/18/25 10:47	1
Beryllium	<0.12		0.50	0.12	ug/L		06/15/25 21:30	06/18/25 10:47	1
Cadmium	<0.15		0.50	0.15	ug/L		06/15/25 21:30	06/18/25 10:47	1
Calcium	100000		120	50	ug/L		06/15/25 21:30	06/18/25 10:47	1
Chromium	<0.55		2.0	0.55	ug/L		06/15/25 21:30	06/18/25 10:47	1
Cobalt	0.56		0.50	0.16	ug/L		06/15/25 21:30	06/18/25 10:47	1
Copper	<0.85		1.0	0.85	ug/L		06/15/25 21:30	06/18/25 10:47	1
Iron	160		50	20	ug/L		06/15/25 21:30	06/18/25 10:47	1
Lead	<0.12		0.50	0.12	ug/L		06/15/25 21:30	06/18/25 10:47	1
Magnesium	16000		50	16	ug/L		06/15/25 21:30	06/18/25 10:47	1
Manganese	88		2.0	0.95	ug/L		06/15/25 21:30	06/18/25 10:47	1
Nickel	1.6		1.0	0.40	ug/L		06/15/25 21:30	06/18/25 10:47	1
Potassium	3000	B	200	65	ug/L		06/15/25 21:30	06/18/25 10:47	1
Selenium	1.3		1.0	0.28	ug/L		06/15/25 21:30	06/18/25 10:47	1
Silver	<0.10		0.50	0.10	ug/L		06/15/25 21:30	06/18/25 10:47	1
Sodium	78000		200	90	ug/L		06/15/25 21:30	06/18/25 10:47	1
Thallium	<0.13		0.50	0.13	ug/L		06/15/25 21:30	06/18/25 10:47	1
Zinc	240		10	4.0	ug/L		06/15/25 21:30	06/18/25 10:47	1
Vanadium	<0.79		4.0	0.79	ug/L		06/15/25 21:30	06/18/25 10:47	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.087		0.20	0.087	ug/L		06/15/25 23:55	06/16/25 19:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	7.9	HF	0.01	0.01	S.U.			06/13/25 14:06	1
Temperature (SW846 9040C)	18.8	HF	0.01	0.01	Degrees C			06/13/25 14:06	1
Corrosivity (SW846 9040C)	NO	HF	0.01	0.01	NONE			06/13/25 14:06	1
Cyanide, Free (OI CORP OIA-1677)	<0.0050		0.0060	0.0050	mg/L			06/19/25 13:42	1

Client Sample ID: QM-R-252069-061225

Lab Sample ID: 410-227023-3

Date Collected: 06/12/25 13:45

Matrix: Water

Date Received: 06/12/25 17:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.080		0.50	0.080	ug/L			06/18/25 13:35	1
1,1,1,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			06/18/25 13:35	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			06/18/25 13:35	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			06/18/25 13:35	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			06/18/25 13:35	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			06/18/25 13:35	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			06/18/25 13:35	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-227023-1

Client Sample ID: QM-R-252069-061225

Lab Sample ID: 410-227023-3

Date Collected: 06/12/25 13:45

Matrix: Water

Date Received: 06/12/25 17:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			06/18/25 13:35	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/18/25 13:35	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			06/18/25 13:35	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			06/18/25 13:35	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/18/25 13:35	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/18/25 13:35	1
2-Butanone	<1.0		5.0	1.0	ug/L			06/18/25 13:35	1
2-Hexanone	<2.0		5.0	2.0	ug/L			06/18/25 13:35	1
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			06/18/25 13:35	1
Acetone	<1.5		5.0	1.5	ug/L			06/18/25 13:35	1
Benzene	<0.10		0.50	0.10	ug/L			06/18/25 13:35	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			06/18/25 13:35	1
Bromoform	<0.30		1.0	0.30	ug/L			06/18/25 13:35	1
Bromomethane	<0.10		0.50	0.10	ug/L			06/18/25 13:35	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			06/18/25 13:35	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			06/18/25 13:35	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			06/18/25 13:35	1
Chloroethane	<0.10		0.50	0.10	ug/L			06/18/25 13:35	1
Chloroform	<0.090		0.50	0.090	ug/L			06/18/25 13:35	1
Chloromethane	0.10	J	0.50	0.10	ug/L			06/18/25 13:35	1
cis-1,2-Dichloroethene	<0.080		0.50	0.080	ug/L			06/18/25 13:35	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			06/18/25 13:35	1
Cyclohexane	<0.10		0.50	0.10	ug/L			06/18/25 13:35	1
Dibromochloromethane	<0.080		0.50	0.080	ug/L			06/18/25 13:35	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			06/18/25 13:35	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			06/18/25 13:35	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			06/18/25 13:35	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			06/18/25 13:35	1
Methyl acetate	<0.20		1.0	0.20	ug/L			06/18/25 13:35	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			06/18/25 13:35	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			06/18/25 13:35	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			06/18/25 13:35	1
Styrene	<0.070		0.50	0.070	ug/L			06/18/25 13:35	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			06/18/25 13:35	1
Toluene	<0.080		0.50	0.080	ug/L			06/18/25 13:35	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			06/18/25 13:35	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			06/18/25 13:35	1
Trichloroethene	<0.080		0.50	0.080	ug/L			06/18/25 13:35	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			06/18/25 13:35	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			06/18/25 13:35	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			06/18/25 13:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		06/18/25 13:35	1
4-Bromofluorobenzene (Surr)	93		80 - 120		06/18/25 13:35	1
Dibromofluoromethane (Surr)	111		80 - 120		06/18/25 13:35	1
Toluene-d8 (Surr)	105		80 - 120		06/18/25 13:35	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-227023-1

Client Sample ID: QM-R-252069-061225

Lab Sample ID: 410-227023-3

Date Collected: 06/12/25 13:45

Matrix: Water

Date Received: 06/12/25 17:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.011		0.053	0.011	ug/L		06/18/25 15:25	06/19/25 21:07	1
Acenaphthylene	<0.011		0.053	0.011	ug/L		06/18/25 15:25	06/19/25 21:07	1
Anthracene	<0.011		0.053	0.011	ug/L		06/18/25 15:25	06/19/25 21:07	1
Benzo[a]anthracene	<0.011		0.053	0.011	ug/L		06/18/25 15:25	06/19/25 21:07	1
Benzo[a]pyrene	<0.011		0.053	0.011	ug/L		06/18/25 15:25	06/19/25 21:07	1
Benzo[b]fluoranthene	<0.050		0.053	0.050	ug/L		06/18/25 15:25	06/19/25 21:07	1
Benzo[g,h,i]perylene	<0.011		0.053	0.011	ug/L		06/18/25 15:25	06/19/25 21:07	1
Benzo[k]fluoranthene	<0.011		0.053	0.011	ug/L		06/18/25 15:25	06/19/25 21:07	1
Chrysene	<0.027		0.053	0.027	ug/L		06/18/25 15:25	06/19/25 21:07	1
Dibenz[a,h]anthracene	<0.021		0.053	0.021	ug/L		06/18/25 15:25	06/19/25 21:07	1
Fluoranthene	<0.024		0.053	0.024	ug/L		06/18/25 15:25	06/19/25 21:07	1
Fluorene	<0.011		0.053	0.011	ug/L		06/18/25 15:25	06/19/25 21:07	1
Indeno[1,2,3-cd]pyrene	<0.021		0.053	0.021	ug/L		06/18/25 15:25	06/19/25 21:07	1
Naphthalene	<0.072		0.074	0.072	ug/L		06/18/25 15:25	06/19/25 21:07	1
Phenanthrene	<0.032		0.074	0.032	ug/L		06/18/25 15:25	06/19/25 21:07	1
Pyrene	0.027	J	0.053	0.022	ug/L		06/18/25 15:25	06/19/25 21:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	82		10 - 121	06/18/25 15:25	06/19/25 21:07	1
1-Methylnaphthalene-d10 (Surr)	79		30 - 127	06/18/25 15:25	06/19/25 21:07	1
Fluoranthene-d10 (Surr)	91		34 - 130	06/18/25 15:25	06/19/25 21:07	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			06/16/25 23:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid) (1C)	96		63 - 135					06/16/25 23:18	1

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	<0.0095		0.019	0.0095	ug/L		06/16/25 09:48	06/17/25 16:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr) (1C)	110		46 - 136				06/16/25 09:48	06/17/25 16:27	1
1,1,2,2-Tetrachloroethane (Surr) (2C)	103		46 - 136				06/16/25 09:48	06/17/25 16:27	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	<50		110	50	ug/L		06/18/25 16:09	06/19/25 14:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o- terphenyl (Surr)	79		32 - 125				06/18/25 16:09	06/19/25 14:40	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	<0.0080		0.0099	0.0080	ug/L		06/14/25 09:32	06/16/25 11:29	1
PCB-1221 (1C)	<0.0080		0.0099	0.0080	ug/L		06/14/25 09:32	06/16/25 11:29	1
PCB-1232 (1C)	<0.0080		0.0099	0.0080	ug/L		06/14/25 09:32	06/16/25 11:29	1
PCB-1242 (1C)	<0.0080		0.0099	0.0080	ug/L		06/14/25 09:32	06/16/25 11:29	1
PCB-1248 (2C)	0.018		0.0099	0.0080	ug/L		06/14/25 09:32	06/16/25 11:29	1

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Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-227023-1

Client Sample ID: QM-R-252069-061225

Lab Sample ID: 410-227023-3

Date Collected: 06/12/25 13:45

Matrix: Water

Date Received: 06/12/25 17:55

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254 (1C)	0.056		0.0099	0.0050	ug/L		06/14/25 09:32	06/16/25 11:29	1
PCB-1260 (1C)	0.11		0.0099	0.0050	ug/L		06/14/25 09:32	06/16/25 11:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	100		46 - 161				06/14/25 09:32	06/16/25 11:29	1
DCB Decachlorobiphenyl (Surr) (2C)	96		46 - 161				06/14/25 09:32	06/16/25 11:29	1
Tetrachloro-m-xylene (1C)	75		41 - 146				06/14/25 09:32	06/16/25 11:29	1
Tetrachloro-m-xylene (2C)	72		41 - 146				06/14/25 09:32	06/16/25 11:29	1

Method: TAL SOP PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0080		0.0099	0.0080	ug/L			06/16/25 11:29	1
PCB-1221	<0.0080		0.0099	0.0080	ug/L			06/16/25 11:29	1
PCB-1232	<0.0080		0.0099	0.0080	ug/L			06/16/25 11:29	1
PCB-1242	<0.0080		0.0099	0.0080	ug/L			06/16/25 11:29	1
PCB-1248	0.018		0.0099	0.0080	ug/L			06/16/25 11:29	1
PCB-1254	0.056		0.0099	0.0050	ug/L			06/16/25 11:29	1
PCB-1260	0.11		0.0099	0.0050	ug/L			06/16/25 11:29	1
Polychlorinated biphenyls, Total	0.18		0.0099	0.0080	ug/L			06/16/25 11:29	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	4.5		2.0	1.0	mg/L			06/19/25 00:18	10

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	48		25	12	ug/L		06/15/25 21:30	06/18/25 10:49	1
Antimony	<0.20		1.0	0.20	ug/L		06/15/25 21:30	06/18/25 10:49	1
Arsenic	1.2 J		2.0	0.68	ug/L		06/15/25 21:30	06/18/25 10:49	1
Barium	34		2.0	0.75	ug/L		06/15/25 21:30	06/18/25 10:49	1
Beryllium	<0.12		0.50	0.12	ug/L		06/15/25 21:30	06/18/25 10:49	1
Cadmium	<0.15		0.50	0.15	ug/L		06/15/25 21:30	06/18/25 10:49	1
Calcium	84000		120	50	ug/L		06/15/25 21:30	06/18/25 10:49	1
Chromium	1.6 J		2.0	0.55	ug/L		06/15/25 21:30	06/18/25 10:49	1
Cobalt	0.33 J		0.50	0.16	ug/L		06/15/25 21:30	06/18/25 10:49	1
Copper	<0.85		1.0	0.85	ug/L		06/15/25 21:30	06/18/25 10:49	1
Iron	55		50	20	ug/L		06/15/25 21:30	06/18/25 10:49	1
Lead	0.12 J		0.50	0.12	ug/L		06/15/25 21:30	06/18/25 10:49	1
Magnesium	15000		50	16	ug/L		06/15/25 21:30	06/18/25 10:49	1
Manganese	18		2.0	0.95	ug/L		06/15/25 21:30	06/18/25 10:49	1
Nickel	0.75 J		1.0	0.40	ug/L		06/15/25 21:30	06/18/25 10:49	1
Potassium	4200 B		200	65	ug/L		06/15/25 21:30	06/18/25 10:49	1
Selenium	0.70 J		1.0	0.28	ug/L		06/15/25 21:30	06/18/25 10:49	1
Silver	<0.10		0.50	0.10	ug/L		06/15/25 21:30	06/18/25 10:49	1
Sodium	48000		200	90	ug/L		06/15/25 21:30	06/18/25 10:49	1
Thallium	<0.13		0.50	0.13	ug/L		06/15/25 21:30	06/18/25 10:49	1
Zinc	<4.0		10	4.0	ug/L		06/15/25 21:30	06/18/25 10:49	1
Vanadium	<0.79		4.0	0.79	ug/L		06/15/25 21:30	06/18/25 10:49	1

Client Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-227023-1

Client Sample ID: QM-R-252069-061225

Lab Sample ID: 410-227023-3

Date Collected: 06/12/25 13:45

Matrix: Water

Date Received: 06/12/25 17:55

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.087		0.20	0.087	ug/L		06/15/25 23:55	06/16/25 19:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	7.9	HF	0.01	0.01	S.U.			06/13/25 14:06	1
Temperature (SW846 9040C)	19.4	HF	0.01	0.01	Degrees C			06/13/25 14:06	1
Corrosivity (SW846 9040C)	NO	HF	0.01	0.01	NONE			06/13/25 14:06	1
Cyanide, Free (OI CORP OIA-1677)	<0.0050		0.0060	0.0050	mg/L			06/19/25 14:27	1

Surrogate Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-227023-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (80-120)	BFB (80-120)	DBFM (80-120)	TOL (80-120)
410-227023-1	TB-061225	106	92	111	104
410-227023-2	QM-R-251186-061225	107	93	111	105
410-227023-3	QM-R-252069-061225	105	93	111	105
LCS 410-659312/5	Lab Control Sample	105	100	108	108
MB 410-659312/7	Method Blank	106	95	109	104

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BAPd12 (10-121)	MNPd10 (30-127)	FLN10 (34-130)
410-227023-2	QM-R-251186-061225	44	67	77
410-227023-3	QM-R-252069-061225	82	79	91
LCS 410-659552/2-A	Lab Control Sample	81	64	85
MB 410-659552/1-A	Method Blank	74	74	86

Surrogate Legend

BAPd12 = Benzo(a)pyrene-d12 (Surr)
MNPd10 = 1-Methylnaphthalene-d10 (Surr)
FLN10 = Fluoranthene-d10 (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		TFT-F1							
Lab Sample ID	Client Sample ID	(63-135)							
410-227023-1	TB-061225	93							
410-227023-2	QM-R-251186-061225	97							
410-227023-3	QM-R-252069-061225	96							
LCS 410-657959/6	Lab Control Sample	85							
LCSD 410-657959/7	Lab Control Sample Dup	83							
MB 410-657959/5	Method Blank	96							

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1122TCA1 (46-136)	1122TCA2 (46-136)
410-227023-1	TB-061225	111	108
410-227023-2	QM-R-251186-061225	117	105

Eurofins Lancaster Laboratories Environment Testing, LLC

Surrogate Summary

Client: Tetra Tech Inc

Job ID: 410-227023-1

Project/Site: Soil and Water Analysis - QL Frederick

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1122TCA1 (46-136)	1122TCA2 (46-136)
410-227023-3	QM-R-252069-061225	110	103
LCS 410-658082/2-A	Lab Control Sample	102	104
LCSD 410-658082/3-A	Lab Control Sample Dup	101	105
MB 410-658082/1-A	Method Blank	103	107
Surrogate Legend			
1122TCA = 1,1,2,2-Tetrachloroethane (Surr)			

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	OTP (32-125)	
410-227023-2	QM-R-251186-061225	83	
410-227023-3	QM-R-252069-061225	79	
LCS 410-659573/2-A	Lab Control Sample	73	
MB 410-659573/1-A	Method Blank	83	
Surrogate Legend			
OTP = o- terphenyl (Surr)			

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCB1 (46-161)	DCB2 (46-161)	TCX1 (41-146)	TCX2 (41-146)
410-227023-2	QM-R-251186-061225	108	99	75	70
410-227023-3	QM-R-252069-061225	100	96	75	72
LCS 410-657739/2-A	Lab Control Sample	125	120	71	67
LCSD 410-657739/3-A	Lab Control Sample Dup	127	118	72	66
MB 410-657739/1-A	Method Blank	115	113	74	70
Surrogate Legend					
DCB = DCB Decachlorobiphenyl (Surr)					
TCX = Tetrachloro-m-xylene					

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-227023-1

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

Lab Sample ID: MB 410-659312/7

Matrix: Water

Analysis Batch: 659312

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	<0.080		0.50	0.080	ug/L			06/18/25 11:46	1
1,1,1,2,2-Tetrachloroethane	<0.10		0.50	0.10	ug/L			06/18/25 11:46	1
1,1,2-Trichloroethane	<0.080		0.50	0.080	ug/L			06/18/25 11:46	1
1,1-Dichloroethane	<0.10		0.50	0.10	ug/L			06/18/25 11:46	1
1,1-Dichloroethene	<0.10		0.50	0.10	ug/L			06/18/25 11:46	1
1,2,4-Trichlorobenzene	<0.070		0.50	0.070	ug/L			06/18/25 11:46	1
1,2-Dibromo-3-Chloropropane	<0.10		0.50	0.10	ug/L			06/18/25 11:46	1
1,2-Dibromoethane	<0.080		0.50	0.080	ug/L			06/18/25 11:46	1
1,2-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/18/25 11:46	1
1,2-Dichloroethane	<0.070		0.50	0.070	ug/L			06/18/25 11:46	1
1,2-Dichloropropane	<0.10		0.50	0.10	ug/L			06/18/25 11:46	1
1,3-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/18/25 11:46	1
1,4-Dichlorobenzene	<0.070		0.50	0.070	ug/L			06/18/25 11:46	1
2-Butanone	<1.0		5.0	1.0	ug/L			06/18/25 11:46	1
2-Hexanone	<2.0		5.0	2.0	ug/L			06/18/25 11:46	1
4-Methyl-2-pentanone	<1.0		5.0	1.0	ug/L			06/18/25 11:46	1
Acetone	<1.5		5.0	1.5	ug/L			06/18/25 11:46	1
Benzene	<0.10		0.50	0.10	ug/L			06/18/25 11:46	1
Bromodichloromethane	<0.080		0.50	0.080	ug/L			06/18/25 11:46	1
Bromoform	<0.30		1.0	0.30	ug/L			06/18/25 11:46	1
Bromomethane	<0.10		0.50	0.10	ug/L			06/18/25 11:46	1
Carbon disulfide	<0.10		1.0	0.10	ug/L			06/18/25 11:46	1
Carbon tetrachloride	<0.10		0.50	0.10	ug/L			06/18/25 11:46	1
Chlorobenzene	<0.070		0.50	0.070	ug/L			06/18/25 11:46	1
Chloroethane	<0.10		0.50	0.10	ug/L			06/18/25 11:46	1
Chloroform	<0.090		0.50	0.090	ug/L			06/18/25 11:46	1
Chloromethane	<0.10		0.50	0.10	ug/L			06/18/25 11:46	1
cis-1,2-Dichloroethene	<0.080		0.50	0.080	ug/L			06/18/25 11:46	1
cis-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			06/18/25 11:46	1
Cyclohexane	<0.10		0.50	0.10	ug/L			06/18/25 11:46	1
Dibromochloromethane	<0.080		0.50	0.080	ug/L			06/18/25 11:46	1
Dichlorodifluoromethane	<0.10		0.50	0.10	ug/L			06/18/25 11:46	1
Ethylbenzene	<0.080		0.50	0.080	ug/L			06/18/25 11:46	1
1,1,2-Trichlorotrifluoroethane	<0.080		0.50	0.080	ug/L			06/18/25 11:46	1
Isopropylbenzene	<0.080		0.50	0.080	ug/L			06/18/25 11:46	1
Methyl acetate	<0.20		1.0	0.20	ug/L			06/18/25 11:46	1
Methyl tertiary butyl ether	<0.080		0.50	0.080	ug/L			06/18/25 11:46	1
Methylcyclohexane	<0.10		0.50	0.10	ug/L			06/18/25 11:46	1
Methylene Chloride	<0.20		0.50	0.20	ug/L			06/18/25 11:46	1
Styrene	<0.070		0.50	0.070	ug/L			06/18/25 11:46	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			06/18/25 11:46	1
Toluene	<0.080		0.50	0.080	ug/L			06/18/25 11:46	1
trans-1,2-Dichloroethene	<0.10		0.50	0.10	ug/L			06/18/25 11:46	1
trans-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			06/18/25 11:46	1
Trichloroethene	<0.080		0.50	0.080	ug/L			06/18/25 11:46	1
Trichlorofluoromethane	<0.10		0.50	0.10	ug/L			06/18/25 11:46	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			06/18/25 11:46	1
Xylenes, Total	<0.070		1.0	0.070	ug/L			06/18/25 11:46	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-227023-1

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

Lab Sample ID: MB 410-659312/7

Matrix: Water

Analysis Batch: 659312

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		80 - 120		06/18/25 11:46	1
4-Bromofluorobenzene (Surr)	95		80 - 120		06/18/25 11:46	1
Dibromofluoromethane (Surr)	109		80 - 120		06/18/25 11:46	1
Toluene-d8 (Surr)	104		80 - 120		06/18/25 11:46	1

Lab Sample ID: LCS 410-659312/5

Matrix: Water

Analysis Batch: 659312

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	5.00	5.12		ug/L		102	78 - 126
1,1,1,2,2-Tetrachloroethane	5.00	5.16		ug/L		103	75 - 123
1,1,1,2-Trichloroethane	5.00	4.97		ug/L		99	80 - 120
1,1-Dichloroethane	5.00	5.15		ug/L		103	74 - 120
1,1-Dichloroethene	5.00	5.19		ug/L		104	80 - 131
1,2,4-Trichlorobenzene	5.00	4.48		ug/L		90	68 - 122
1,2-Dibromo-3-Chloropropane	5.00	3.73		ug/L		75	75 - 124
1,2-Dibromoethane	5.00	5.01		ug/L		100	80 - 120
1,2-Dichlorobenzene	5.00	4.67		ug/L		93	80 - 120
1,2-Dichloroethane	5.00	4.68		ug/L		94	69 - 122
1,2-Dichloropropane	5.00	5.05		ug/L		101	80 - 120
1,3-Dichlorobenzene	5.00	4.64		ug/L		93	80 - 120
1,4-Dichlorobenzene	5.00	4.60		ug/L		92	80 - 120
2-Butanone	62.5	56.7		ug/L		91	59 - 141
2-Hexanone	62.5	54.5		ug/L		87	52 - 140
4-Methyl-2-pentanone	62.5	52.9		ug/L		85	55 - 140
Acetone	62.5	51.6		ug/L		83	60 - 146
Benzene	5.00	4.83		ug/L		97	80 - 120
Bromodichloromethane	5.00	5.27		ug/L		105	80 - 123
Bromoform	5.00	4.90		ug/L		98	75 - 126
Bromomethane	5.00	4.39		ug/L		88	63 - 120
Carbon disulfide	5.00	5.21		ug/L		104	67 - 130
Carbon tetrachloride	5.00	5.24		ug/L		105	64 - 141
Chlorobenzene	5.00	4.81		ug/L		96	80 - 120
Chloroethane	5.00	4.43		ug/L		89	63 - 120
Chloroform	5.00	5.00		ug/L		100	80 - 120
Chloromethane	5.00	4.51		ug/L		90	56 - 124
cis-1,2-Dichloroethene	5.00	4.80		ug/L		96	80 - 122
cis-1,3-Dichloropropene	5.00	4.77		ug/L		95	67 - 121
Cyclohexane	5.00	4.65		ug/L		93	69 - 120
Dibromochloromethane	5.00	5.48		ug/L		110	80 - 123
Dichlorodifluoromethane	5.00	5.24		ug/L		105	43 - 123
Ethylbenzene	5.00	4.77		ug/L		95	80 - 120
1,1,2-Trichlorotrifluoroethane	5.00	4.94		ug/L		99	67 - 124
Isopropylbenzene	5.00	5.17		ug/L		103	80 - 120
Methyl acetate	5.00	4.03		ug/L		81	59 - 143
Methyl tertiary butyl ether	5.00	4.49		ug/L		90	69 - 120
Methylcyclohexane	5.00	4.58		ug/L		92	80 - 120

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QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-227023-1

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

Lab Sample ID: LCS 410-659312/5

Matrix: Water

Analysis Batch: 659312

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	5.00	4.99		ug/L		100	80 - 120
Styrene	5.00	4.76		ug/L		95	80 - 120
Tetrachloroethene	5.00	4.74		ug/L		95	80 - 120
Toluene	5.00	4.74		ug/L		95	80 - 120
trans-1,2-Dichloroethene	5.00	4.96		ug/L		99	80 - 122
trans-1,3-Dichloropropene	5.00	5.10		ug/L		102	61 - 129
Trichloroethene	5.00	4.71		ug/L		94	80 - 120
Trichlorofluoromethane	5.00	4.52		ug/L		90	53 - 136
Vinyl chloride	5.00	4.45		ug/L		89	60 - 125
Xylenes, Total	15.0	14.1		ug/L		94	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	108		80 - 120
Toluene-d8 (Surr)	108		80 - 120

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

Lab Sample ID: MB 410-659552/1-A

Matrix: Water

Analysis Batch: 659761

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 659552

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.010		0.050	0.010	ug/L		06/18/25 15:25	06/19/25 04:17	1
Acenaphthylene	<0.010		0.050	0.010	ug/L		06/18/25 15:25	06/19/25 04:17	1
Anthracene	<0.010		0.050	0.010	ug/L		06/18/25 15:25	06/19/25 04:17	1
Benzo[a]anthracene	<0.010		0.050	0.010	ug/L		06/18/25 15:25	06/19/25 04:17	1
Benzo[a]pyrene	<0.010		0.050	0.010	ug/L		06/18/25 15:25	06/19/25 04:17	1
Benzo[b]fluoranthene	<0.047		0.050	0.047	ug/L		06/18/25 15:25	06/19/25 04:17	1
Benzo[g,h,i]perylene	<0.010		0.050	0.010	ug/L		06/18/25 15:25	06/19/25 04:17	1
Benzo[k]fluoranthene	<0.010		0.050	0.010	ug/L		06/18/25 15:25	06/19/25 04:17	1
Chrysene	<0.025		0.050	0.025	ug/L		06/18/25 15:25	06/19/25 04:17	1
Dibenz(a,h)anthracene	<0.020		0.050	0.020	ug/L		06/18/25 15:25	06/19/25 04:17	1
Fluoranthene	<0.023		0.050	0.023	ug/L		06/18/25 15:25	06/19/25 04:17	1
Fluorene	<0.010		0.050	0.010	ug/L		06/18/25 15:25	06/19/25 04:17	1
Indeno[1,2,3-cd]pyrene	<0.020		0.050	0.020	ug/L		06/18/25 15:25	06/19/25 04:17	1
Naphthalene	<0.068		0.070	0.068	ug/L		06/18/25 15:25	06/19/25 04:17	1
Phenanthrene	<0.030		0.070	0.030	ug/L		06/18/25 15:25	06/19/25 04:17	1
Pyrene	<0.021		0.050	0.021	ug/L		06/18/25 15:25	06/19/25 04:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	74		10 - 121	06/18/25 15:25	06/19/25 04:17	1
1-Methylnaphthalene-d10 (Surr)	74		30 - 127	06/18/25 15:25	06/19/25 04:17	1
Fluoranthene-d10 (Surr)	86		34 - 130	06/18/25 15:25	06/19/25 04:17	1

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-227023-1

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

Lab Sample ID: LCS 410-659552/2-A

Matrix: Water

Analysis Batch: 659761

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 659552

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	1.00	0.720		ug/L		72	33 - 122
Acenaphthylene	1.00	0.820		ug/L		82	35 - 123
Anthracene	1.00	0.810		ug/L		81	40 - 127
Benzo[a]anthracene	1.00	0.883		ug/L		88	34 - 128
Benzo[a]pyrene	1.00	0.884		ug/L		88	38 - 134
Benzo[b]fluoranthene	1.00	0.848		ug/L		85	35 - 131
Benzo[g,h,i]perylene	1.00	0.888		ug/L		89	31 - 139
Benzo[k]fluoranthene	1.00	0.850		ug/L		85	42 - 146
Chrysene	1.00	0.697		ug/L		70	34 - 134
Dibenz(a,h)anthracene	1.00	0.843		ug/L		84	29 - 136
Fluoranthene	1.00	0.811		ug/L		81	36 - 129
Fluorene	1.00	0.761		ug/L		76	35 - 124
Indeno[1,2,3-cd]pyrene	1.00	0.883		ug/L		88	28 - 137
Naphthalene	1.00	0.640		ug/L		64	26 - 120
Phenanthrene	1.00	0.781		ug/L		78	37 - 125
Pyrene	1.00	0.778		ug/L		78	34 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Benzo(a)pyrene-d12 (Surr)	81		10 - 121
1-Methylnaphthalene-d10 (Surr)	64		30 - 127
Fluoranthene-d10 (Surr)	85		34 - 130

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 410-657959/5

Matrix: Water

Analysis Batch: 657959

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (1C)	<23		50	23	ug/L			06/16/25 12:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid) (1C)	96		63 - 135		06/16/25 12:37	1

Lab Sample ID: LCS 410-657959/6

Matrix: Water

Analysis Batch: 657959

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline (Unleaded) (1C)	1100	1030		ug/L		93	66 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene (fid) (1C)	85		63 - 135

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-227023-1

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: LCSD 410-657959/7

Matrix: Water

Analysis Batch: 657959

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
Gasoline (Unleaded) (1C)	1100	1060		ug/L		96	66 - 120	3	30
Surrogate	%Recovery	LCSD Qualifier	LCSD Limits						
a,a,a-Trifluorotoluene (fid) (1C)	83		63 - 135						

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-658082/1-A

Matrix: Water

Analysis Batch: 658573

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 658082

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	<0.010		0.020	0.010	ug/L		06/16/25 09:48	06/17/25 09:22	1
Surrogate	%Recovery	MB Qualifier	MB Limits						
1,1,2,2-Tetrachloroethane (Surr) (1C)	103		46 - 136						
1,1,2,2-Tetrachloroethane (Surr) (2C)	107		46 - 136						

Lab Sample ID: LCS 410-658082/2-A

Matrix: Water

Analysis Batch: 658573

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 658082

			Spike	LCS	LCS					%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits			
Ethylene Dibromide (1C)			0.129	0.131		ug/L		101	60 - 140			

Lab Sample ID: LCSD 410-658082/3-A

Matrix: Water

Analysis Batch: 658573

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 658082

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.129	0.127		ug/L		98	60 - 140	3	20
Surrogate	%Recovery	LCSD Qualifier	LCSD Limits						
1,1,2,2-Tetrachloroethane (Surr) (1C)	101		46 - 136						
1,1,2,2-Tetrachloroethane (Surr) (2C)	105		46 - 136						

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-227023-1

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 410-659573/1-A

Matrix: Water

Analysis Batch: 660005

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 659573

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	<45		100	45	ug/L		06/18/25 16:09	06/19/25 13:09	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o- terphenyl (Surr)	83		32 - 125				06/18/25 16:09	06/19/25 13:09	1

Lab Sample ID: LCS 410-659573/2-A

Matrix: Water

Analysis Batch: 660005

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 659573

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
DRO (C10-C28)	603	611		ug/L		101	20 - 115	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
o- terphenyl (Surr)	73		32 - 125					

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 410-657739/1-A

Matrix: Water

Analysis Batch: 657987

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 657739

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016 (1C)	<0.0080		0.010	0.0080	ug/L		06/14/25 09:32	06/16/25 09:32	1
PCB-1221 (1C)	<0.0080		0.010	0.0080	ug/L		06/14/25 09:32	06/16/25 09:32	1
PCB-1232 (1C)	<0.0080		0.010	0.0080	ug/L		06/14/25 09:32	06/16/25 09:32	1
PCB-1242 (1C)	<0.0080		0.010	0.0080	ug/L		06/14/25 09:32	06/16/25 09:32	1
PCB-1248 (1C)	<0.0080		0.010	0.0080	ug/L		06/14/25 09:32	06/16/25 09:32	1
PCB-1254 (1C)	<0.0050		0.010	0.0050	ug/L		06/14/25 09:32	06/16/25 09:32	1
PCB-1260 (1C)	<0.0050		0.010	0.0050	ug/L		06/14/25 09:32	06/16/25 09:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	115		46 - 161				06/14/25 09:32	06/16/25 09:32	1
DCB Decachlorobiphenyl (Surr) (2C)	113		46 - 161				06/14/25 09:32	06/16/25 09:32	1
Tetrachloro-m-xylene (1C)	74		41 - 146				06/14/25 09:32	06/16/25 09:32	1
Tetrachloro-m-xylene (2C)	70		41 - 146				06/14/25 09:32	06/16/25 09:32	1

Lab Sample ID: LCS 410-657739/2-A

Matrix: Water

Analysis Batch: 657987

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 657739

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
PCB-1016 (1C)	0.500	0.421		ug/L		84	60 - 117	
PCB-1260 (1C)	0.500	0.515		ug/L		103	81 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
DCB Decachlorobiphenyl (Surr) (1C)	125		46 - 161					

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-227023-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: LCS 410-657739/2-A

Matrix: Water

Analysis Batch: 657987

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 657739

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl (Surr) (2C)	120		46 - 161
Tetrachloro-m-xylene (1C)	71		41 - 146
Tetrachloro-m-xylene (2C)	67		41 - 146

Lab Sample ID: LCSD 410-657739/3-A

Matrix: Water

Analysis Batch: 657987

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 657739

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016 (1C)	0.500	0.443		ug/L		88	60 - 117	5	30
PCB-1260 (1C)	0.500	0.533		ug/L		107	81 - 130	3	30

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl (Surr) (1C)	127		46 - 161
DCB Decachlorobiphenyl (Surr) (2C)	118		46 - 161
Tetrachloro-m-xylene (1C)	72		41 - 146
Tetrachloro-m-xylene (2C)	66		41 - 146

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-659611/5

Matrix: Water

Analysis Batch: 659611

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.20	0.10	mg/L			06/18/25 19:02	1

Lab Sample ID: LCS 410-659611/3

Matrix: Water

Analysis Batch: 659611

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.750	0.768		mg/L		102	90 - 110

Lab Sample ID: LCSD 410-659611/4

Matrix: Water

Analysis Batch: 659611

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
Fluoride	0.750	0.773		mg/L		103	90 - 110	1	20

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-227023-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-657658/1-A

Matrix: Water

Analysis Batch: 659496

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 657658

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<12		25	12	ug/L		06/15/25 21:30	06/18/25 10:35	1
Antimony	<0.20		1.0	0.20	ug/L		06/15/25 21:30	06/18/25 10:35	1
Arsenic	<0.68		2.0	0.68	ug/L		06/15/25 21:30	06/18/25 10:35	1
Barium	<0.75		2.0	0.75	ug/L		06/15/25 21:30	06/18/25 10:35	1
Beryllium	<0.12		0.50	0.12	ug/L		06/15/25 21:30	06/18/25 10:35	1
Cadmium	<0.15		0.50	0.15	ug/L		06/15/25 21:30	06/18/25 10:35	1
Calcium	<50		120	50	ug/L		06/15/25 21:30	06/18/25 10:35	1
Chromium	<0.55		2.0	0.55	ug/L		06/15/25 21:30	06/18/25 10:35	1
Cobalt	<0.16		0.50	0.16	ug/L		06/15/25 21:30	06/18/25 10:35	1
Copper	<0.85		1.0	0.85	ug/L		06/15/25 21:30	06/18/25 10:35	1
Iron	<20		50	20	ug/L		06/15/25 21:30	06/18/25 10:35	1
Lead	<0.12		0.50	0.12	ug/L		06/15/25 21:30	06/18/25 10:35	1
Magnesium	<16		50	16	ug/L		06/15/25 21:30	06/18/25 10:35	1
Manganese	<0.95		2.0	0.95	ug/L		06/15/25 21:30	06/18/25 10:35	1
Nickel	<0.40		1.0	0.40	ug/L		06/15/25 21:30	06/18/25 10:35	1
Potassium	68.6	J	200	65	ug/L		06/15/25 21:30	06/18/25 10:35	1
Selenium	<0.28		1.0	0.28	ug/L		06/15/25 21:30	06/18/25 10:35	1
Silver	<0.10		0.50	0.10	ug/L		06/15/25 21:30	06/18/25 10:35	1
Sodium	<90		200	90	ug/L		06/15/25 21:30	06/18/25 10:35	1
Thallium	<0.13		0.50	0.13	ug/L		06/15/25 21:30	06/18/25 10:35	1
Zinc	<4.0		10	4.0	ug/L		06/15/25 21:30	06/18/25 10:35	1
Vanadium	<0.79		4.0	0.79	ug/L		06/15/25 21:30	06/18/25 10:35	1

Lab Sample ID: LCS 410-657658/2-A

Matrix: Water

Analysis Batch: 659496

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 657658

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5000	4600		ug/L		92	83 - 114
Antimony	100	96.8		ug/L		97	85 - 115
Arsenic	500	484		ug/L		97	86 - 111
Barium	500	482		ug/L		96	86 - 114
Beryllium	50.0	45.6		ug/L		91	80 - 120
Cadmium	50.0	49.5		ug/L		99	86 - 114
Calcium	5000	4790		ug/L		96	84 - 113
Chromium	500	481		ug/L		96	84 - 113
Cobalt	500	481		ug/L		96	85 - 112
Copper	500	489		ug/L		98	86 - 111
Iron	5000	4840		ug/L		97	84 - 114
Lead	50.0	47.5		ug/L		95	86 - 114
Magnesium	5000	4780		ug/L		96	84 - 113
Manganese	500	482		ug/L		96	84 - 113
Nickel	500	479		ug/L		96	85 - 113
Potassium	5000	4930		ug/L		99	87 - 111
Selenium	100	98.9		ug/L		99	86 - 111
Silver	50.0	48.7		ug/L		97	88 - 116
Sodium	5000	4960		ug/L		99	84 - 114
Thallium	100	92.5		ug/L		93	86 - 113
Zinc	500	497		ug/L		99	86 - 112

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-227023-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-657658/2-A

Matrix: Water

Analysis Batch: 659496

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 657658

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vanadium	500	472		ug/L		94	84 - 112

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-657874/1-A

Matrix: Water

Analysis Batch: 658469

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 657874

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.087		0.20	0.087	ug/L		06/15/25 23:55	06/16/25 18:38	1

Lab Sample ID: LCS 410-657874/2-A

Matrix: Water

Analysis Batch: 658469

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 657874

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	1.04		ug/L		104	80 - 120

Lab Sample ID: LCSD 410-657874/3-A

Matrix: Water

Analysis Batch: 658469

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 657874

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	1.00	1.06		ug/L		106	80 - 120	2	20

Method: 9040C - pH

Lab Sample ID: LCS 410-657459/1

Matrix: Water

Analysis Batch: 657459

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.1		S.U.		101	95 - 105

Lab Sample ID: 410-227023-3 DU

Matrix: Water

Analysis Batch: 657459

Client Sample ID: QM-R-252069-061225

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.9	HF	7.9		S.U.		0.1	4
Temperature	19.4	HF	19.3		Degrees C		0.5	4
Corrosivity	NO	HF	NO		NONE		NaN	

Method: OIA-1677 - Cyanide, Free (Flow Injection)

Lab Sample ID: MB 410-660229/17

Matrix: Water

Analysis Batch: 660229

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	<0.0050		0.0060	0.0050	mg/L			06/19/25 13:00	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-227023-1

Method: OIA-1677 - Cyanide, Free (Flow Injection)

Lab Sample ID: MB 410-660229/33

Matrix: Water

Analysis Batch: 660229

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	<0.0050		0.0060	0.0050	mg/L			06/19/25 13:40	1

Lab Sample ID: MB 410-660229/49

Matrix: Water

Analysis Batch: 660229

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	<0.0050		0.0060	0.0050	mg/L			06/19/25 14:20	1

Lab Sample ID: LCS 410-660229/32

Matrix: Water

Analysis Batch: 660229

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Free	0.0500	0.0419		mg/L		84	82 - 132

Lab Sample ID: LCS 410-660229/48

Matrix: Water

Analysis Batch: 660229

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Free	0.0500	0.0471		mg/L		94	82 - 132

Lab Sample ID: 410-227023-2 MS

Matrix: Water

Analysis Batch: 660229

Client Sample ID: QM-R-251186-061225

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Free	<0.0050		0.0500	0.0431		mg/L		86	82 - 130

Lab Sample ID: 410-227023-2 MSD

Matrix: Water

Analysis Batch: 660229

Client Sample ID: QM-R-251186-061225

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Free	<0.0050		0.0500	0.0453		mg/L		91	82 - 130	5	11

Lab Sample ID: 410-227023-3 MS

Matrix: Water

Analysis Batch: 660229

Client Sample ID: QM-R-252069-061225

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Free	<0.0050		0.0500	0.0453		mg/L		91	82 - 130

Lab Sample ID: 410-227023-3 MSD

Matrix: Water

Analysis Batch: 660229

Client Sample ID: QM-R-252069-061225

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Free	<0.0050		0.0500	0.0467		mg/L		93	82 - 130	3	11

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-227023-1

GC/MS VOA

Analysis Batch: 659312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-227023-1	TB-061225	Total/NA	Water	8260D	
410-227023-2	QM-R-251186-061225	Total/NA	Water	8260D	
410-227023-3	QM-R-252069-061225	Total/NA	Water	8260D	
MB 410-659312/7	Method Blank	Total/NA	Water	8260D	
LCS 410-659312/5	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 659552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-227023-2	QM-R-251186-061225	Total/NA	Water	3510C	
410-227023-3	QM-R-252069-061225	Total/NA	Water	3510C	
MB 410-659552/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-659552/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 659761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-659552/1-A	Method Blank	Total/NA	Water	8270D SIM	659552
LCS 410-659552/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	659552

Analysis Batch: 660172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-227023-2	QM-R-251186-061225	Total/NA	Water	8270D SIM	659552
410-227023-3	QM-R-252069-061225	Total/NA	Water	8270D SIM	659552

GC VOA

Analysis Batch: 657959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-227023-1	TB-061225	Total/NA	Water	8015D	
410-227023-2	QM-R-251186-061225	Total/NA	Water	8015D	
410-227023-3	QM-R-252069-061225	Total/NA	Water	8015D	
MB 410-657959/5	Method Blank	Total/NA	Water	8015D	
LCS 410-657959/6	Lab Control Sample	Total/NA	Water	8015D	
LCSD 410-657959/7	Lab Control Sample Dup	Total/NA	Water	8015D	

GC Semi VOA

Prep Batch: 657739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-227023-2	QM-R-251186-061225	Total/NA	Water	3510C	
410-227023-3	QM-R-252069-061225	Total/NA	Water	3510C	
MB 410-657739/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-657739/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-657739/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 657987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-227023-2	QM-R-251186-061225	Total/NA	Water	8082A	657739
410-227023-3	QM-R-252069-061225	Total/NA	Water	8082A	657739
MB 410-657739/1-A	Method Blank	Total/NA	Water	8082A	657739
LCS 410-657739/2-A	Lab Control Sample	Total/NA	Water	8082A	657739

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-227023-1

GC Semi VOA (Continued)

Analysis Batch: 657987 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 410-657739/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	657739

Prep Batch: 658082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-227023-1	TB-061225	Total/NA	Water	8011	
410-227023-2	QM-R-251186-061225	Total/NA	Water	8011	
410-227023-3	QM-R-252069-061225	Total/NA	Water	8011	
MB 410-658082/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-658082/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-658082/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 658205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-227023-2	QM-R-251186-061225	Total/NA	Water	PCB	
410-227023-3	QM-R-252069-061225	Total/NA	Water	PCB	

Analysis Batch: 658573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-227023-1	TB-061225	Total/NA	Water	8011	658082
410-227023-2	QM-R-251186-061225	Total/NA	Water	8011	658082
410-227023-3	QM-R-252069-061225	Total/NA	Water	8011	658082
MB 410-658082/1-A	Method Blank	Total/NA	Water	8011	658082
LCS 410-658082/2-A	Lab Control Sample	Total/NA	Water	8011	658082
LCSD 410-658082/3-A	Lab Control Sample Dup	Total/NA	Water	8011	658082

Prep Batch: 659573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-227023-2	QM-R-251186-061225	Total/NA	Water	3510C	
410-227023-3	QM-R-252069-061225	Total/NA	Water	3510C	
MB 410-659573/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-659573/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 660005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-227023-2	QM-R-251186-061225	Total/NA	Water	8015D	659573
410-227023-3	QM-R-252069-061225	Total/NA	Water	8015D	659573
MB 410-659573/1-A	Method Blank	Total/NA	Water	8015D	659573
LCS 410-659573/2-A	Lab Control Sample	Total/NA	Water	8015D	659573

HPLC/IC

Analysis Batch: 659611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-227023-2	QM-R-251186-061225	Total/NA	Water	EPA 300.0 R2.1	
410-227023-3	QM-R-252069-061225	Total/NA	Water	EPA 300.0 R2.1	
MB 410-659611/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-659611/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-659611/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

QC Association Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-227023-1

Metals

Prep Batch: 657658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-227023-2	QM-R-251186-061225	Total Recoverable	Water	3005A	
410-227023-3	QM-R-252069-061225	Total Recoverable	Water	3005A	
MB 410-657658/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-657658/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 657874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-227023-2	QM-R-251186-061225	Total/NA	Water	7470A	
410-227023-3	QM-R-252069-061225	Total/NA	Water	7470A	
MB 410-657874/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-657874/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 410-657874/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	

Analysis Batch: 658469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-227023-2	QM-R-251186-061225	Total/NA	Water	7470A	657874
410-227023-3	QM-R-252069-061225	Total/NA	Water	7470A	657874
MB 410-657874/1-A	Method Blank	Total/NA	Water	7470A	657874
LCS 410-657874/2-A	Lab Control Sample	Total/NA	Water	7470A	657874
LCSD 410-657874/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	657874

Analysis Batch: 659496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-227023-2	QM-R-251186-061225	Total Recoverable	Water	6020B	657658
410-227023-3	QM-R-252069-061225	Total Recoverable	Water	6020B	657658
MB 410-657658/1-A	Method Blank	Total Recoverable	Water	6020B	657658
LCS 410-657658/2-A	Lab Control Sample	Total Recoverable	Water	6020B	657658

General Chemistry

Analysis Batch: 657459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-227023-2	QM-R-251186-061225	Total/NA	Water	9040C	
410-227023-3	QM-R-252069-061225	Total/NA	Water	9040C	
LCS 410-657459/1	Lab Control Sample	Total/NA	Water	9040C	
410-227023-3 DU	QM-R-252069-061225	Total/NA	Water	9040C	

Analysis Batch: 660229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-227023-2	QM-R-251186-061225	Total/NA	Water	OIA-1677	
410-227023-3	QM-R-252069-061225	Total/NA	Water	OIA-1677	
MB 410-660229/17	Method Blank	Total/NA	Water	OIA-1677	
MB 410-660229/33	Method Blank	Total/NA	Water	OIA-1677	
MB 410-660229/49	Method Blank	Total/NA	Water	OIA-1677	
LCS 410-660229/32	Lab Control Sample	Total/NA	Water	OIA-1677	
LCS 410-660229/48	Lab Control Sample	Total/NA	Water	OIA-1677	
410-227023-2 MS	QM-R-251186-061225	Total/NA	Water	OIA-1677	
410-227023-2 MSD	QM-R-251186-061225	Total/NA	Water	OIA-1677	
410-227023-3 MS	QM-R-252069-061225	Total/NA	Water	OIA-1677	
410-227023-3 MSD	QM-R-252069-061225	Total/NA	Water	OIA-1677	

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-227023-1

Client Sample ID: TB-061225

Lab Sample ID: 410-227023-1

Date Collected: 06/12/25 07:00

Matrix: Water

Date Received: 06/12/25 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	659312	N7YK	ELLE	06/18/25 12:06
Total/NA	Analysis	8015D		1	657959	P5AM	ELLE	06/16/25 15:38
Total/NA	Prep	8011			658082	K2IL	ELLE	06/16/25 09:48
Total/NA	Analysis	8011		1	658573	URS0	ELLE	06/17/25 15:53

Client Sample ID: QM-R-251186-061225

Lab Sample ID: 410-227023-2

Date Collected: 06/12/25 11:45

Matrix: Water

Date Received: 06/12/25 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	659312	N7YK	ELLE	06/18/25 13:13
Total/NA	Prep	3510C			659552	L2FU	ELLE	06/18/25 15:25
Total/NA	Analysis	8270D SIM		1	660172	UJM0	ELLE	06/19/25 20:46
Total/NA	Analysis	8015D		1	657959	P5AM	ELLE	06/16/25 22:53
Total/NA	Prep	8011			658082	K2IL	ELLE	06/16/25 09:48
Total/NA	Analysis	8011		1	658573	URS0	ELLE	06/17/25 16:10
Total/NA	Prep	3510C			659573	T9CY	ELLE	06/18/25 16:09
Total/NA	Analysis	8015D		1	660005	A2VL	ELLE	06/19/25 14:18
Total/NA	Prep	3510C			657739	ZFS6	ELLE	06/14/25 09:32
Total/NA	Analysis	8082A		1	657987	M6UH	ELLE	06/16/25 11:16
Total/NA	Analysis	PCB		1	658205	M6UH	ELLE	06/16/25 11:16
Total/NA	Analysis	EPA 300.0 R2.1		1	659611	PYC6	ELLE	06/19/25 01:03
Total Recoverable	Prep	3005A			657658	UAMX	ELLE	06/15/25 21:30
Total Recoverable	Analysis	6020B		1	659496	F7JF	ELLE	06/18/25 10:47
Total/NA	Prep	7470A			657874	UAMX	ELLE	06/15/25 23:55
Total/NA	Analysis	7470A		1	658469	IJ3I	ELLE	06/16/25 19:16
Total/NA	Analysis	9040C		1	657459	DI9Q	ELLE	06/13/25 14:06
Total/NA	Analysis	OIA-1677		1	660229	UJE2	ELLE	06/19/25 13:42

Client Sample ID: QM-R-252069-061225

Lab Sample ID: 410-227023-3

Date Collected: 06/12/25 13:45

Matrix: Water

Date Received: 06/12/25 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	659312	N7YK	ELLE	06/18/25 13:35
Total/NA	Prep	3510C			659552	L2FU	ELLE	06/18/25 15:25
Total/NA	Analysis	8270D SIM		1	660172	UJM0	ELLE	06/19/25 21:07
Total/NA	Analysis	8015D		1	657959	P5AM	ELLE	06/16/25 23:18
Total/NA	Prep	8011			658082	K2IL	ELLE	06/16/25 09:48
Total/NA	Analysis	8011		1	658573	URS0	ELLE	06/17/25 16:27
Total/NA	Prep	3510C			659573	T9CY	ELLE	06/18/25 16:09
Total/NA	Analysis	8015D		1	660005	A2VL	ELLE	06/19/25 14:40
Total/NA	Prep	3510C			657739	ZFS6	ELLE	06/14/25 09:32
Total/NA	Analysis	8082A		1	657987	M6UH	ELLE	06/16/25 11:29

Eurofins Lancaster Laboratories Environment Testing, LLC

Lab Chronicle

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-227023-1

Client Sample ID: QM-R-252069-061225

Lab Sample ID: 410-227023-3

Date Collected: 06/12/25 13:45

Matrix: Water

Date Received: 06/12/25 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	PCB		1	658205	M6UH	ELLE	06/16/25 11:29
Total/NA	Analysis	EPA 300.0 R2.1		10	659611	PYC6	ELLE	06/19/25 00:18
Total Recoverable	Prep	3005A			657658	UAMX	ELLE	06/15/25 21:30
Total Recoverable	Analysis	6020B		1	659496	F7JF	ELLE	06/18/25 10:49
Total/NA	Prep	7470A			657874	UAMX	ELLE	06/15/25 23:55
Total/NA	Analysis	7470A		1	658469	IJ3I	ELLE	06/16/25 19:18
Total/NA	Analysis	9040C		1	657459	DI9Q	ELLE	06/13/25 14:06
Total/NA	Analysis	OIA-1677		1	660229	UJE2	ELLE	06/19/25 14:27

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Tetra Tech Inc

Job ID: 410-227023-1

Project/Site: Soil and Water Analysis - QL Frederick

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-26
A2LA	Dept. of Energy	0001.01	11-30-26
A2LA	ISO/IEC 17025	0001.01	11-30-26
Alabama	State	43200	01-31-26
Alaska	State	PA00009	06-30-25
Alaska (UST)	State	17-027	12-30-26
Arizona	State	AZ0780	03-12-26
Arkansas DEQ	State	88-00660	08-09-25
California	State	2792	01-31-26
Colorado	State	PA00009	06-30-25
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-26
Delaware (DW)	State	N/A	01-31-26
Florida	NELAP	E87997	06-30-25
Georgia (DW)	State	C048	01-31-26
Illinois	NELAP	200027	01-31-26
Iowa	State	361	03-01-26
Kansas	NELAP	E-10151	10-31-25
Kentucky (DW)	State	KY90088	12-31-25
Kentucky (UST)	State	0001.01	11-30-26
Kentucky (WW)	State	KY90088	12-31-25
Louisiana (All)	NELAP	02055	06-30-25
Maine	State	2019012	03-12-27
Maryland	State	100	06-30-25
Massachusetts	State	M-PA009	06-30-26
Michigan	State	9930	01-31-26
Minnesota	NELAP	042-999-487	12-31-25
Mississippi	State	023	01-31-26
Missouri	State	450	01-31-28
Montana (DW)	State	0098	01-01-26
Nebraska	State	NE-OS-32-17	01-31-26
New Hampshire	NELAP	2730	01-10-26
New Jersey	NELAP	PA011	06-30-25
New York	NELAP	10670	04-01-26
North Carolina (DW)	State	42705	07-31-25
North Carolina (WW/SW)	State	521	12-31-25
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-25
Oregon	NELAP	PA200001	09-11-25
Pennsylvania	NELAP	36-00037	01-31-26
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-29
Rhode Island	State	LAO00338	12-30-25
South Carolina	State	89002	01-31-26
Tennessee	State	02838	01-31-26
Texas	NELAP	T104704194-23-46	08-31-25
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-25
Virginia	NELAP	460182	06-14-26
Washington	State	C457	04-11-26

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

Eurofins Lancaster Laboratories Environment Testing, LLC

Accreditation/Certification Summary

Client: Tetra Tech Inc

Job ID: 410-227023-1

Project/Site: Soil and Water Analysis - QL Frederick

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

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

Authority	Program	Identification Number	Expiration Date
West Virginia (DW)	State	9906 C	03-31-26
West Virginia DEP	State	055	07-31-25
Wyoming	State	8TMS-L	01-31-26
Wyoming (UST)	A2LA	0001.01	11-30-26

Method Summary

Client: Tetra Tech Inc
Project/Site: Soil and Water Analysis - QL Frederick

Job ID: 410-227023-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	ELLE
8015D	Gasoline Range Organics (GRO) (GC)	SW846	ELLE
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
8015D	Diesel Range Organics (DRO) (GC)	SW846	ELLE
8082A	Polychlorinated Biphenyls (PCBs) (GC)	SW846	ELLE
PCB	Total PCB Calculation	TAL SOP	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6020B	Metals (ICP/MS)	SW846	ELLE
7470A	Mercury (CVAA)	SW846	ELLE
9040C	pH	SW846	ELLE
OIA-1677	Cyanide, Free (Flow Injection)	OI CORP	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
7470A	Preparation, Mercury	SW846	ELLE
8011	Microextraction	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

OI CORP = OI Corporation Instrument Manual.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Tetra Tech Inc

Job ID: 410-227023-1

Project/Site: Soil and Water Analysis - QL Frederick

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-227023-1	TB-061225	Water	06/12/25 07:00	06/12/25 17:55
410-227023-2	QM-R-251186-061225	Water	06/12/25 11:45	06/12/25 17:55
410-227023-3	QM-R-252069-061225	Water	06/12/25 13:45	06/12/25 17:55

Login Sample Receipt Checklist

Client: Tetra Tech Inc

Job Number: 410-227023-1

Login Number: 227023

List Number: 1

Creator: Reynolds, Benjamin

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(<=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (<=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	