Tighe&Bond

Attachment No. 3

Fuel Oil Release Table
Olson Drive
Ansonia, Connecticut

Tighe&Bond

Sample Name	**CTDEEP RSR Criteria**						**TP-4**	**TP-5**	**TB-12**	**TB-13**	**TB-14**	**TB-15**	**TB-16**	**TB-17**	**TB-18**	**TB-19**	**TB-110**	**TB-111**	**TB-112**	**TB-113**	**TB-114**
Sample Depth							8 - 9 ft	6 - 8 ft	7 - 9 ft	7 - 9 ft	7 - 9 ft	7 - 9 ft	5 - 7 ft	5 - 7 ft	5 - 7 ft	5 - 7 ft	5 - 7.5 ft	10 - 12.5 ft	5 - 7.5 ft	5 - 7 ft	5 - 7 ft
Sample Date							3/20/24	3/20/24	3/26/24	3/26/24	3/26/24	3/26/24	3/26/24	3/26/24	3/26/24	3/26/24	6/13/2024	6/13/2024	6/13/2024	6/13/2024	6/13/2024
Lab Sample ID	RES	I/C	GA	GB	GWPC	GWPC	CQ34021	CQ34022	CQ36507	CQ36508	CQ36509	CQ36510	CQ36511	CQ36512	CQ36513	CQ36514	CQ95973	CQ95978	CQ95979	CQ95982	CQ95985
Lab Report ID	DEC	DEC	PMC	PMC		x10	GCQ34019	GCQ34019	GCQ36507	GCQ36507	GCQ36507	GCQ36507	GCQ36507	GCQ36507	GCQ36507	GCQ36507	GCQ95939	GCQ95939	GCQ95939	GCQ95939	GCQ95939
VOCs 8260C (mg/Kg)																					
Benzene	21	200	0.02	0.2	NS	NS	<0.0063	<0.0071	<0.006	<0.007	<0.006	<0.0062	<0.0067	<0.0062	0.16	<0.0052	<0.0068	<0.0053	0.15	<0.0059	<0.0056
Naphthalene	1,000	2,500	5.6	56	NS	NS	<0.0063	<0.0071	<0.006	<0.007	0.32	<0.0062	<0.0067	<0.0062	0.3	<0.0052	<0.0068	<0.0053	<0.0063	<0.0059	<0.0056
Toluene	500	1,000	20	67	NS	NS	<0.0063	<0.0071	<0.006	<0.007	<0.006	<0.0062	<0.0067	<0.0062	0.13	<0.0052	<0.0068	<0.0053	0.21	<0.0059	<0.0056
PAHs 8270E (mg/Kg)																					
Acenaphthene	*1,000*	*2,500*	*8.4*	*84*	NS	NS	<0.25	<0.26	<0.24	<0.26	1	<0.25	<0.26	<0.26	0.82	<0.24	<0.26	<0.23	<0.24	<0.25	<0.24
Acenaphthylene	1,000	2,500	8.4	84	NS	NS	<0.25	<0.26	<0.24	<0.26	<0.25	<0.25	<0.26	<0.26	11	<0.24	<0.26	0.43	<0.24	<0.25	<0.24
Anthracene	1,000	2,500	40	400	NS	NS	<0.25	<0.26	0.26	<0.26	2.5	<0.25	<0.26	<0.26	11	<0.24	<0.26	0.47	<0.24	<0.25	<0.24
Benzo(a)anthracene	1	7.8	1	1	NS	NS	0.7	<0.26	1.5	<0.26	4.5	<0.25	0.36	<0.26	**28**	<0.24	<0.26	0.97	<0.24	0.33	<0.24
Benzo(a)pyrene	1	1	1	1	NS	NS	0.67	<0.26	**1.6**	<0.26	**3.6**	<0.25	0.4	<0.26	**35**	<0.24	<0.26	**1.3**	<0.24	0.46	<0.24
Benzo(b)fluoranthene	1	7.8	1	1	NS	NS	0.76	<0.26	1.6	<0.26	4.1	<0.25	0.49	<0.26	**37**	<0.24	<0.26	1.5	<0.24	0.54	<0.24
Benzo(g,h,i)perylene	*8.4*	*78*	*1*	*1*	NS	NS	0.37	<0.26	0.82	<0.26	*1.3*	<0.25	<0.26	<0.26	*20*	<0.24	<0.26	0.87	<0.24	<0.25	<0.24
Benzo(k)fluoranthene	8.4	78	1	1	NS	NS	0.28	<0.26	0.61	<0.26	1.4	<0.25	<0.26	<0.26	11	<0.24	<0.26	0.53	<0.24	<0.25	<0.24
Chrysene	*84*	*780*	*1*	*1*	NS	NS	0.69	<0.26	*1.5*	<0.26	*4.4*	<0.25	0.43	<0.26	*23*	<0.24	<0.26	0.89	<0.24	0.25	<0.24
Dibenz(a,h)anthracene	*1*	*1*	*1*	*1*	NS	NS	<0.25	<0.26	<0.24	<0.26	0.47	<0.25	<0.26	<0.26	***3.8***	<0.24	<0.26	<0.23	<0.24	<0.25	<0.24
Fluoranthene	1,000	2,500	5.6	56	NS	NS	1.2	<0.26	2.5	<0.26	6.2	<0.25	0.55	<0.26	49	<0.24	<0.26	2	0.27	0.3	<0.24
Fluorene	1,000	2,500	5.6	56	NS	NS	<0.25	<0.26	<0.24	<0.26	1.4	<0.25	<0.26	<0.26	3.7	<0.24	<0.26	<0.23	<0.24	<0.25	<0.24
Indeno(1,2,3-cd)pyrene	*1*	*7.8*	*1*	*1*	NS	NS	0.38	<0.26	0.9	<0.26	*1.5*	<0.25	<0.26	<0.26	***23***	<0.24	<0.26	0.89	<0.24	0.28	<0.24
Methylnaphthalene, 2-	*270*	*1,000*	*0.56*	*5.6*	NS	NS	<0.25	<0.26	<0.24	<0.26	0.39	<0.25	<0.26	<0.26	0.53	<0.24	<0.26	<0.23	<0.24	<0.25	<0.24
Naphthalene	1,000	2,500	5.6	56	NS	NS	<0.25	<0.26	<0.24	<0.26	0.8	<0.25	<0.26	<0.26	0.76	<0.24	<0.26	<0.23	<0.24	<0.25	<0.24
Phenanthrene	1,000	2,500	4	40	NS	NS	0.29	<0.26	0.88	<0.26	6.9	<0.25	0.33	<0.26	29	<0.24	<0.26	1.7	<0.24	<0.25	<0.24
Pyrene	1,000	2,500	4	40	NS	NS	1.1	<0.26	2.4	<0.26	5.2	<0.25	0.52	<0.26	40	<0.24	<0.26	1.7	<0.24	0.26	<0.24
SPLP PAHs 8270E (SIM) (ug/L)																					
Phenanthrene	NS	NS	NS	NS	200	2,000	-	-	-	-	0.36	-	-	-	-	-	-	-	-	-	-
CTETPH 8015D (mg/Kg)																					
CT ETPH	500	2,500	500	2,500	NS	NS	<54	<54	<260	<56	<270	<53	<56	<55	**3,000**	<51	<55	90	300	<53	<52
SPLP Pesticides 8081B (ug/L)	NS	NS	NS	NS	CS	CS	-	-	-	-	-	-	BRL	-	-	-	-	-	-	-	-

Notes
CTDEEP RSRs - Connecticut Department of Energy and Environmental Protection Remediation Standard Regulations (Feburary 16, 2021) and Technical Support Document:
Recommended Criteria Values for Common Additional Polluting Substances and Alternative Criteria Requests (September 2018)
CT ETPH - Connecticut Department of Public Health Extractable Total Petroleum Hydrocarbons
RES DEC - Residential Direct Exposure Criteria
I/C DEC - Industrial/Commercial Direct Exposure Criteria
GA PMC - Pollutant Mobility Criteria in a GA groundwater area
GB PMC - Pollutant Mobility Criteria in a GB groundwater area
Boxed values indicate exceedances of RES DEC
Bold values indicate exceedances of I/C DEC
Dark/Light gray shaded values indicate exceedance of GA/GB PMC
Only analytes reported above reporting limits are summarized above
< xx indicates compound was not reported above laboratory reporting limit shown
PAHs - Polycyclic Aromatic Hydrocarbons
VOCs - Volatile Organic Compounds
SPLP - Synthetic Precipitation Leaching Procedure
CS - Criteria is compound specific

PAHs Release Table
Olson Drive
Ansonia, Connecticut

Sample Name	**CTDEEP RSR Criteria**						**TP-6**	**TP-7**	**TB-106**	**TB-107**	**TB-107**	**TB-108**	**TB-109**
Sample Depth							4 ft	4 ft	4 - 6 ft	4 - 6 ft	6 - 8 ft	5 - 7.5 ft	5 - 7.5 ft
Sample Date							3/20/24	3/20/24	6/13/2024	6/13/2024	6/13/2024	6/13/2024	6/13/2024
Lab Sample ID	RES	I/C	GA	GB	GWPC	GWPC	CQ34023	CQ34024	CQ95954	CQ95960	CQ95961	CQ95964	CQ95970
Lab Report ID	DEC	DEC	PMC	PMC		x10	GCQ34019	GCQ34019	GCQ95939	GCQ95939	GCQ95939	GCQ95939	GCQ95939
PAHs 8270E (mg/Kg)													
Acenaphthene	*1,000*	*2,500*	*8.4*	*84*	NS	NS	0.73	0.66	-	-	-	-	-
Anthracene	1,000	2,500	40	400	NS	NS	2.4	1.9	-	-	-	-	-
Benzo(a)anthracene	1	7.8	1	1	NS	NS	6	3.9	-	-	-	-	-
Benzo(a)pyrene	1	1	1	1	NS	NS	**5**	**3**	-	-	-	-	-
Benzo(b)fluoranthene	1	7.8	1	1	NS	NS	6.2	3.6	-	-	-	-	-
Benzo(g,h,i)perylene	*8.4*	*78*	*1*	*1*	NS	NS	*2.4*	*1.3*	-	-	-	-	-
Benzo(k)fluoranthene	8.4	78	1	1	NS	NS	2.2	1.3	-	-	-	-	-
Chrysene	*84*	*780*	*1*	*1*	NS	NS	*5.7*	*3.8*	-	-	-	-	-
Dibenz(a,h)anthracene	*1*	*1*	*1*	*1*	NS	NS	0.69	0.37	-	-	-	-	-
Fluoranthene	1,000	2,500	5.6	56	NS	NS	14	6.2	-	-	-	-	-
Fluorene	1,000	2,500	5.6	56	NS	NS	0.73	0.42	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	*1*	*7.8*	*1*	*1*	NS	NS	*2.8*	*1.4*	-	-	-	-	-
Methylnaphthalene, 2-	*270*	*1,000*	*0.56*	*5.6*	NS	NS	0.29	<0.25	-	-	-	-	-
Naphthalene	1,000	2,500	5.6	56	NS	NS	<0.25	0.27	-	-	-	-	-
Phenanthrene	1,000	2,500	4	40	NS	NS	11	7.1	-	-	-	-	-
Pyrene	1,000	2,500	4	40	NS	NS	6.8	5.1	-	-	-	-	-
SPLP PAHs 8270E (SIM) (ug/L)													
Acenaphthene	NS	NS	NS	NS	*420*	*4,200*	<0.47	1.2	<0.47	-	<0.48	<0.48	<0.47
Anthracene	NS	NS	NS	NS	2,000	20,000	<0.47	0.64	<0.47	-	<0.48	<0.48	<0.47
Benzo(a)anthracene	NS	NS	NS	NS	0.06	0.6	**0.11**	**0.14**	<0.05	-	<0.05	<0.05	<0.10
Fluoranthene	NS	NS	NS	NS	280	2,800	0.52	1.5	<0.47	-	<0.48	<0.48	<0.47
Phenanthrene	NS	NS	NS	NS	200	2,000	1.3	4.3	<0.50	-	<0.50	<0.50	<0.50
Pyrene	NS	NS	NS	NS	200	2,000	<0.47	1.1	<0.47	-	<0.48	<0.48	<0.47
MA EPH (mg/Kg)													
Aliphatic C9-C18	500	1,000	20	140	NS	NS	-	-	-	<20	-	-	-
Aromatic C11-C22	500	1,000	20	30	NS	NS	-	-	-	<20	-	-	-
Aliphatic C19-C36	1,000	2,500	20	200	NS	NS	-	-	-	<20	-	-	-
CTETPH 8015D (mg/Kg)													
CT ETPH	500	2,500	500	2,500	NS	NS	300	310	-	-	-	-	-
General Chemistry													
pH	NS	NS	NS	NS	NS	NS	9.08	11.9	-	-	-	-	-
Corrosivity	NS	NS	NS	NS	NS	NS	Negative	Negative	-	-	-	-	-

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Only analytes reported above reporting limits are summarized above
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PAHs - Polycyclic Aromatic Hydrocarbons
SPLP - Synthetic Precipitation Leaching Procedure

Last Updated: 7/8/2024
J:\A\A5093 City of Ansonia\011 - Olson Drive\RAP\Bidding\Data Tables and Laboratory Reports\Release Tables.xlsx

PFAS Release Table
Olson Drive
Ansonia, Connecticut

Sample Name	**CTDEEP RSR Criteria**						**TP-9**	**TP-9**	**TP-10**	**TP-10**	**TB-115**	**TB-116**	**TB-117**	**TB-118**
Sample Depth							4 ft	-	4 ft	-	4 - 6 ft	6 - 8 ft	4 - 6 ft	4 - 6 ft
Sample Date							3/21/24	3/21/24	3/21/24	3/21/24	6/13/2024	6/13/2024	6/13/2024	6/13/2024
Lab Sample ID	RES	I/C	GA	GB	GWPC	GWPC	CQ34026	CQ33404	CQ34027	CQ33402	CQ95018	CQ95016	CQ95010	CQ95007
Lab Report ID	DEC	DEC	PMC	PMC		x10	GCQ34019	GCQ33400	GCQ34019	GCQ33400	GCQ94995	GCQ94995	GCQ94995	GCQ94995
VOCs 8260C (mg/Kg)	CS	CS	CS	CS	NS	NS	BRL	-	BRL	-	-	-	-	-
SVOCs 8270E (mg/Kg)	CS	CS	CS	CS	NS	NS	BRL	-	BRL	-	-	-	-	-
CTETPH 8015D (mg/Kg)														
CT ETPH	500	2,500	500	2,500	NS	NS	<54	-	<53	-	-	-	-	-
Metals 6010D (mg/Kg)														
Antimony	27	8,200	NS	NS	NS	NS	<3.6	-	<3.2		-	-	-	-
Arsenic	10	10	NS	NS	NS	NS	3.91	-	1.77	-	-	-	-	-
Barium	4,700	140,000	NS	NS	NS	NS	28.2	-	35.5	-	-	-	-	-
Beryllium	2	2	NS	NS	NS	NS	<0.29	-	<0.26	-	-	-	-	-
Cadmium	34	1,000	NS	NS	NS	NS	0.82	-	0.82	-	-	-	-	-
Chromium (Total)	*100***	*100***	NS	NS	NS	NS	14.4	-	11.1	-	-	-	-	-
Copper	2,500	76,000	NS	NS	NS	NS	82.3	-	66.2	-	-	-	-	-
Lead	400	1,000	NS	NS	NS	NS	29.1	-	44.4	-	-	-	-	-
Mercury (7471B)	20	610	NS	NS	NS	NS	0.06	-	0.05	-	-	-	-	-
Nickel	1,400	7,500	NS	NS	NS	NS	15.7	-	12.3	-	-	-	-	-
Selenium	340	10,000	NS	NS	NS	NS	<1.4	-	<1.3	-	-	-	-	-
Silver	340	10,000	NS	NS	NS	NS	<0.36	-	<0.32	-	-	-	-	-
Thallium	5.4	160	NS	NS	NS	NS	<3.2	-	<2.9	-	-	-	-	-
Vanadium	470	14,000	NS	NS	NS	NS	12.3	-	12.8	-	-	-	-	-
Zinc	20,000	610,000	NS	NS	NS	NS	58.9	-	70	-	-	-	-	-
PCBs 8082A (mg/Kg)														
PCBs (Total)	1	10	NS	NS	NS	NS	<0.37	-	<0.36	-	-	-	-	-
PFAS EPA 1633 (ug/kg)	CS	CS	CS	CS	CS	CS	-	-	-	-	BRL	BRL	BRL	BRL
PFAS 537M/ EPA 1633 (ug/kg)														
Perfluoroheptanoic Acid (PFHpA)	NS	NS	NS	NS	NS	NS	-	<0.267	-	<0.26	<0.217	<0.209	<0.212	<0.208
Perfluorohexanesulfonic Acid (PFHxS)	NS	NS	NS	NS	NS	NS	-	<0.267	-	<0.26	<0.198	<0.191	<0.194	<0.191
Perfluorononanoic Acid (PFNA)	NS	NS	NS	NS	NS	NS	-	<0.267	-	<0.26	<0.217	<0.209	<0.212	<0.208
Perfluorooctanesulfonic acid (PFOS)	NS	NS	NS	NS	NS	NS	-	1.04	-	4.15	1.41	<0.194	<0.197	0.756
Perfluorooctanoic Acid (PFOA)	NS	NS	NS	NS	NS	NS	-	<0.267	-	<0.26	<0.217	<0.209	<0.212	<0.208
PFAS (Total)	1,350	41,000	1.4	14	NS	NS	-	1.04	-	4.15	1.41	ND	ND	0.756

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PCBs - Polychlorinated Biphenyls
SVOCs - Semi-Volatile Organic Compounds
VOCs - Volatile Organic Compounds
PFAS - Per- and Polyfluoroalkyl Substances
CS - Criteria is compound specific

Wednesday, April 03, 2024

Attn: Jill Libby
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: OLSON DRIVE
SDG ID: GCQ33400
Sample ID#s: CQ33400 - CQ33407

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

April 03, 2024

SDG I.D.: GCQ33400

Project ID: OLSON DRIVE

Client Id	Lab Id	Matrix
TP-12	CQ33400	SOIL
TP-15	CQ33401	SOIL
TP-10 (4)	CQ33402	SOIL
TP-14	CQ33403	SOIL
TP-9	CQ33404	SOIL
EQUIPMENT BLANK	CQ33405	WATER
TRIP BLANK	CQ33406	WATER
TP-2	CQ33407	SOIL

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 03, 2024

FOR: Attn: Jill Libby
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	BG	03/21/24	11:00
Location Code:	TIGHE-DAS	Received by:	SR1	03/21/24	18:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093001				

Laboratory Data

SDG ID: GCQ33400
Phoenix ID: CQ33400

Project ID: OLSON DRIVE
Client ID: TP-12

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PFAS CT DEEP (5)	Completed					03/29/24	***	EPA 537m	C
PFAS CT DEEP (5)									
Perfluoroheptanoic Acid (PFHpA)	ND	0.239	0.0435	ng/g	1	04/01/24	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.239	0.0296	ng/g	1	04/01/24	***	EPA 537m	C
Perfluorononanoic Acid (PFNA)	ND	0.239	0.0572	ng/g	1	04/01/24	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.239	0.0419	ng/g	1	04/01/24	***	EPA 537m	C
Perfluorooctanoic Acid (PFOA)	ND	0.239	0.0738	ng/g	1	04/01/24	***	EPA 537m	C
Total PFAS (5)	ND	0.239	0.239	ng/g	1	04/01/24	***	EPA 537m	C
QA/QC Surrogates									
% M3PFHxS	87.5			%	1	04/01/24	***	25 - 150 %	C
% M4PFHpA	97.1			%	1	04/01/24	***	25 - 150 %	C
% M8PFOA	89.5			%	1	04/01/24	***	25 - 150 %	C
% M8PFOS	74.8			%	1	04/01/24	***	25 - 150 %	C
% M9PFNA	88.2			%	1	04/01/24	***	25 - 150 %	C

Project ID: OLSON DRIVE
Client ID: TP-12

Phoenix I.D.: CQ33400

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection
MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

PFAS CT DEEP (5) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
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Phyllis Shiller, Laboratory Director
April 03, 2024
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 03, 2024

FOR: Attn: Jill Libby
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	BG	03/21/24	9:40
Location Code:	TIGHE-DAS	Received by:	SR1	03/21/24	18:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093001				

Laboratory Data

SDG ID: GCQ33400
Phoenix ID: CQ33401

Project ID: OLSON DRIVE
Client ID: TP-15

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PFAS CT DEEP (5)	Completed					03/29/24	***	EPA 537m	C
PFAS CT DEEP (5)									
Perfluoroheptanoic Acid (PFHpA)	ND	0.272	0.0494	ng/g	1	04/01/24	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.272	0.0337	ng/g	1	04/01/24	***	EPA 537m	C
Perfluorononanoic Acid (PFNA)	ND	0.272	0.0650	ng/g	1	04/01/24	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.272	0.0476	ng/g	1	04/01/24	***	EPA 537m	C
Perfluorooctanoic Acid (PFOA)	0.387	0.272	0.0839	ng/g	1	04/01/24	***	EPA 537m	C
Total PFAS (5)	0.387	0.272	0.272	ng/g	1	04/01/24	***	EPA 537m	C
QA/QC Surrogates									
% M3PFHxS	89.1			%	1	04/01/24	***	25 - 150 %	C
% M4PFHpA	91.9			%	1	04/01/24	***	25 - 150 %	C
% M8PFOA	97.0			%	1	04/01/24	***	25 - 150 %	C
% M8PFOS	74.4			%	1	04/01/24	***	25 - 150 %	C
% M9PFNA	84.6			%	1	04/01/24	***	25 - 150 %	C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection
MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

PFAS CT DEEP (5) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

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Phyllis Shiller, Laboratory Director
April 03, 2024
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 03, 2024

FOR: Attn: Jill Libby
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	BG	03/21/24	7:00
Location Code:	TIGHE-DAS	Received by:	SR1	03/21/24	18:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093001				

Laboratory Data

SDG ID: GCQ33400
Phoenix ID: CQ33402

Project ID: OLSON DRIVE
Client ID: TP-10 (4)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PFAS CT DEEP (5)	Completed					03/29/24	***	EPA 537m	C
PFAS CT DEEP (5)									
Perfluoroheptanoic Acid (PFHpA)	ND	0.260	0.0473	ng/g	1	04/01/24	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.260	0.0323	ng/g	1	04/01/24	***	EPA 537m	C
Perfluorononanoic Acid (PFNA)	ND	0.260	0.0622	ng/g	1	04/01/24	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	4.15	0.260	0.0456	ng/g	1	04/01/24	***	EPA 537m	C
Perfluorooctanoic Acid (PFOA)	ND	0.260	0.0803	ng/g	1	04/01/24	***	EPA 537m	C
Total PFAS (5)	4.150	0.260	0.260	ng/g	1	04/01/24	***	EPA 537m	C
QA/QC Surrogates									
% M3PFHxS	85.8			%	1	04/01/24	***	25 - 150 %	C
% M4PFHpA	90.9			%	1	04/01/24	***	25 - 150 %	C
% M8PFOA	88.6			%	1	04/01/24	***	25 - 150 %	C
% M8PFOS	56.8			%	1	04/01/24	***	25 - 150 %	C
% M9PFNA	76.7			%	1	04/01/24	***	25 - 150 %	C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection
MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

PFAS CT DEEP (5) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

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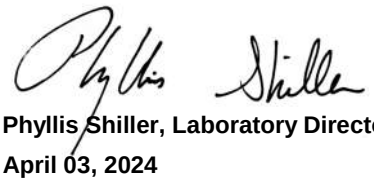

Phyllis Shiller, Laboratory Director
April 03, 2024
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 03, 2024

FOR: Attn: Jill Libby
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	BG	03/21/24	10:20
Location Code:	TIGHE-DAS	Received by:	SR1	03/21/24	18:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093001				

Laboratory Data

SDG ID: GCQ33400
Phoenix ID: CQ33403

Project ID: OLSON DRIVE
Client ID: TP-14

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PFAS CT DEEP (5)	Completed					03/29/24	***	EPA 537m	C
PFAS CT DEEP (5)									
Perfluoroheptanoic Acid (PFHpA)	ND	0.249	0.0453	ng/g	1	04/01/24	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.249	0.0308	ng/g	1	04/01/24	***	EPA 537m	C
Perfluorononanoic Acid (PFNA)	ND	0.249	0.0595	ng/g	1	04/01/24	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.249	0.0436	ng/g	1	04/01/24	***	EPA 537m	C
Perfluorooctanoic Acid (PFOA)	ND	0.249	0.0768	ng/g	1	04/01/24	***	EPA 537m	C
Total PFAS (5)	ND	0.249	0.249	ng/g	1	04/01/24	***	EPA 537m	C
QA/QC Surrogates									
% M3PFHxS	82.7			%	1	04/01/24	***	25 - 150 %	C
% M4PFHpA	93.8			%	1	04/01/24	***	25 - 150 %	C
% M8PFOA	90.6			%	1	04/01/24	***	25 - 150 %	C
% M8PFOS	75.2			%	1	04/01/24	***	25 - 150 %	C
% M9PFNA	80.6			%	1	04/01/24	***	25 - 150 %	C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection
MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

PFAS CT DEEP (5) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

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Phyllis Shiller, Laboratory Director
April 03, 2024
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 03, 2024

FOR: Attn: Jill Libby
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	BG	03/21/24	7:20
Location Code:	TIGHE-DAS	Received by:	SR1	03/21/24	18:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093001				

Laboratory Data

SDG ID: GCQ33400
Phoenix ID: CQ33404

Project ID: OLSON DRIVE
Client ID: TP-9

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PFAS CT DEEP (5)	Completed					03/29/24	***	EPA 537m	C
PFAS CT DEEP (5)									
Perfluoroheptanoic Acid (PFHpA)	ND	0.267	0.0485	ng/g	1	04/01/24	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.267	0.0331	ng/g	1	04/01/24	***	EPA 537m	C
Perfluorononanoic Acid (PFNA)	ND	0.267	0.0638	ng/g	1	04/01/24	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	1.04	0.267	0.0467	ng/g	1	04/01/24	***	EPA 537m	C
Perfluorooctanoic Acid (PFOA)	ND	0.267	0.0824	ng/g	1	04/01/24	***	EPA 537m	C
Total PFAS (5)	1.040	0.267	0.267	ng/g	1	04/01/24	***	EPA 537m	C
QA/QC Surrogates									
% M3PFHxS	78.8			%	1	04/01/24	***	25 - 150 %	C
% M4PFHpA	86.8			%	1	04/01/24	***	25 - 150 %	C
% M8PFOA	82.3			%	1	04/01/24	***	25 - 150 %	C
% M8PFOS	65.1			%	1	04/01/24	***	25 - 150 %	C
% M9PFNA	82.1			%	1	04/01/24	***	25 - 150 %	C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection
MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

PFAS CT DEEP (5) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

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Phyllis Shiller, Laboratory Director
April 03, 2024
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 03, 2024

FOR: Attn: Jill Libby
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	BG	03/21/24	13:00
Location Code:	TIGHE-DAS	Received by:	SR1	03/21/24	18:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093001				

Laboratory Data

SDG ID: GCQ33400
Phoenix ID: CQ33405

Project ID: OLSON DRIVE
Client ID: EQUIPMENT BLANK

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PFAS (CT)	Completed					03/28/24	***	EPA 537m	C
PFAS (CT)									
Perfluoroheptanoic acid (PFHpA)	ND	0.909	0.289	ng/L	1	03/30/24	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.909	0.128	ng/L	1	03/30/24	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	0.909	0.261	ng/L	1	03/30/24	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.909	0.133	ng/L	1	03/30/24	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	0.909	0.241	ng/L	1	03/30/24	***	EPA 537m	C
Total PFAS (5)	ND	0.909	0.909	ng/L	1	03/30/24	***	EPA 537m	C
QA/QC Surrogates									
% M3PFHxS	73.4			%	1	03/30/24	***	25 - 150 %	C
% M4PFHpA	80.5			%	1	03/30/24	***	25 - 150 %	C
% M8PFOA	74.2			%	1	03/30/24	***	25 - 150 %	C
% M8PFOS	79.4			%	1	03/30/24	***	25 - 150 %	C
% M9PFNA	75.9			%	1	03/30/24	***	25 - 150 %	C

Project ID: OLSON DRIVE
Client ID: EQUIPMENT BLANK

Phoenix I.D.: CQ33405

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

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MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

PFAS (CT) (EPA 537m), PFOA/PFOS - Water Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

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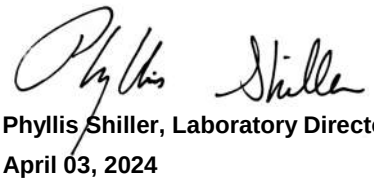

Phyllis Shiller, Laboratory Director
April 03, 2024
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 03, 2024

FOR: Attn: Jill Libby
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	BG	03/21/24	
Location Code:	TIGHE-DAS	Received by:	SR1	03/21/24	18:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093001				

Laboratory Data

SDG ID: GCQ33400
Phoenix ID: CQ33406

Project ID: OLSON DRIVE
Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PFAS (CT)	Completed					03/28/24	***	EPA 537m	C
PFAS (CT)									
Perfluoroheptanoic acid (PFHpA)	ND	0.912	0.290	ng/L	1	03/30/24	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.912	0.128	ng/L	1	03/30/24	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	0.912	0.262	ng/L	1	03/30/24	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.912	0.133	ng/L	1	03/30/24	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	0.912	0.242	ng/L	1	03/30/24	***	EPA 537m	C
Total PFAS (5)	ND	0.912	0.912	ng/L	1	03/30/24	***	EPA 537m	C
QA/QC Surrogates									
% M3PFHxS	72.6			%	1	03/30/24	***	25 - 150 %	C
% M4PFHpA	75.0			%	1	03/30/24	***	25 - 150 %	C
% M8PFOA	80.4			%	1	03/30/24	***	25 - 150 %	C
% M8PFOS	70.4			%	1	03/30/24	***	25 - 150 %	C
% M9PFNA	72.4			%	1	03/30/24	***	25 - 150 %	C

Project ID: OLSON DRIVE
Client ID: TRIP BLANK

Phoenix I.D.: CQ33406

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection
MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

PFAS (CT) (EPA 537m), PFOA/PFOS - Water Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

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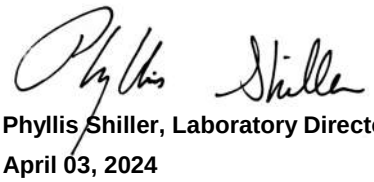

Phyllis Shiller, Laboratory Director
April 03, 2024
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 03, 2024

FOR: Attn: Jill Libby
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	BG	03/21/24	
Location Code:	TIGHE-DAS	Received by:	SR1	03/21/24	18:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093001				

Laboratory Data

SDG ID: GCQ33400
Phoenix ID: CQ33407

Project ID: OLSON DRIVE
Client ID: TP-2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PFAS CT DEEP (5)	Completed					03/29/24	***	EPA 537m	C
PFAS CT DEEP (5)									
Perfluoroheptanoic Acid (PFHpA)	ND	0.256	0.0466	ng/g	1	04/01/24	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.256	0.0317	ng/g	1	04/01/24	***	EPA 537m	C
Perfluorononanoic Acid (PFNA)	ND	0.256	0.0612	ng/g	1	04/01/24	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.256	0.0448	ng/g	1	04/01/24	***	EPA 537m	C
Perfluorooctanoic Acid (PFOA)	ND	0.256	0.0790	ng/g	1	04/01/24	***	EPA 537m	C
Total PFAS (5)	ND	0.256	0.256	ng/g	1	04/01/24	***	EPA 537m	C
QA/QC Surrogates									
% M3PFHxS	82.2			%	1	04/01/24	***	25 - 150 %	C
% M4PFHpA	83.1			%	1	04/01/24	***	25 - 150 %	C
% M8PFOA	82.5			%	1	04/01/24	***	25 - 150 %	C
% M8PFOS	70.7			%	1	04/01/24	***	25 - 150 %	C
% M9PFNA	80.6			%	1	04/01/24	***	25 - 150 %	C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection
MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

PFAS CT DEEP (5) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

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Phyllis Shiller, Laboratory Director
April 03, 2024
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

QA/QC Report

April 03, 2024

QA/QC Data

SDG I.D.: GCQ33400

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 725029 (ng/g), QC Sample No: CQ33400 (CQ33400, CQ33401, CQ33402, CQ33403, CQ33404, CQ33407)											
PFOA & PFOS											
PFHpA	ND	0.246	95.9			87.8	83.3	4.72	50 - 130	35	
PFHxS	ND	0.246	119			90.7	106	16.0	50 - 130	35	
PFNA	ND	0.246	84.2			89.9	85.1	5.03	50 - 130	35	
PFOA	ND	0.246	108			91.4	90.1	0.963	50 - 130	35	
PFOS	ND	0.246	146			102	96.2	5.00	50 - 130	35	I
% M3PFHxS	77.8	0.0493	86.5			84.8	86.8		25 - 150		
% M4PFHpA	84.1	0.0493	99.8			94.4	104		25 - 150		
% M8PFOA	92.1	0.0493	89.7			97.1	101		25 - 150		
% M8PFOS	76.4	0.0493	74.0			69.9	82.2		25 - 150		
% M9PFNA	88.9	0.0493	97.5			77.6	95.4		25 - 150		
QA/QC Batch 725030 (ng/L), QC Sample No: CQ33405 (CQ33405, CQ33406)											
PFOA & PFOS											
PFHpA	ND	2.00	89.9	82.0	9.20				50 - 130	30	
PFHxS	ND	2.00	114	96.5	16.3				50 - 130	30	
PFNA	ND	2.00	101	84.6	17.3				50 - 130	30	
PFOA	ND	2.00	105	100	5.09				50 - 130	30	
PFOS	ND	2.00	135	115	16.0				50 - 130	30	I
% M3PFHxS	71.5	0.100	67.6	71.2					25 - 150		
% M4PFHpA	81.5	0.100	80.7	84.5					25 - 150		
% M8PFOA	73.6	0.100	74.6	79.0					25 - 150		
% M8PFOS	62.6	0.100	67.0	70.3					25 - 150		
% M9PFNA	72.1	0.100	70.9	80.4					25 - 150		

I = This parameter is outside laboratory LCS/LCSD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
April 03, 2024

Wednesday, April 03, 2024

Criteria: CT: GAM, RC

State: CT

Sample Criteria Exceedances Report

GCQ33400 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CQ33402	$PFAS-SMCTD	Total PFAS (5)	CT / RSR GA,GAA (mg/kg) / APS Organics	4.150	0.260	1.4	1.4	ng/g

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

April 03, 2024 SDG I.D.: GCQ33400

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

Cooler: Yes ☑ No ☐
Coolant: IPK ☐ ICE ☑ No ☐
Temp 3.7 °C Pg of

PHOENIX
Environmental Laboratories, Inc.

CT/MA/RI CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: makrina@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

Data Delivery/Contact Options:
☐ Fax: _____
☐ Phone: _____
☐ Email: _____

Customer: Tighe and Bond
Address: 213 Court St, Suite 1100
Middletown, CT. 06457

Project: Olson Drive
Report to: Mark Paulson, Zac Hayek, Brian Simonich, Jill Lashley
Invoice to: Tighe and Bond Westfield
Quote # DAS Rates

Project P.O: 105093001

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification
Sampler's Signature: B. Simonich Date: 3/21/24

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = _____(Other)

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	*MS/MSD (May be billable at analysis unit rate)	PFAS 537M CT List	PFA Bottle	GL Amber 8 oz. [ ] w/H2PO4 [ ] NAHSO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 1250ml [ ] 1500ml [ ] 1000ml	PL H2SO4 [ ] 1250ml [ ] 1500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
33400	TP-12	S	3/21/24	1100		X	1												
33401	TP-15			9:40		X	1												
33402	TP-10 (4)			7:00		X	1												
33403	TP-14			1020		X	1												
33404	TP-9			7:20		X	1												
33405	Equipment Blank			1:00		X	2												
33406	Trip Blank					X	2												
33407	TP-2		3/20/24			X	1												

Relinquished by:	Accepted by:	Date:	Time:
B. Simonich		3/21/24	1805

Comments, Special Requirements or Regulations:
RL for PCB must be <0.5

Turnaround Time:
☐ 1 Day* ☒ Standard
☐ 2 Days* ☐ Other
☐ 3 Days*
☐ 4 Days*
☐ 5 Days*

RI
☐ RES DEC
☐ I/C DEC
☐ GA Leachability
☐ GB Leachability
☐ GA -GW Objectives
☐ GB -GW Objectives
☐ Other

CT
☒ RCP Cert
☐ GWPC
☐ SWPC
☒ GA PMC
☐ GB PMC
☐ SWPC
☒ RES DEC
☐ I/C DEC

MA
☐ MCP Certification
☐ GW-1 ☐ RCS-1 / RCGW-1
☐ GW-2 ☐ RCS-2 / RCGW-2
☐ GW-3 ☐ _____
☐ S-1
☐ S-2
☐ S-3
☐ SW Protection

Data Format
☐ Excel
☒ PDF
☐ GIS/Key
☐ EQuIS
☒ Other Enviro Data

Data Package
☐ Tier II Checklist*
☐ Full Data Package*
☒ Phoenix Std
☐ Other

***MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.**

*** SURCHARGES MAY APPLY**

State where samples were collected: CT

*** SURCHARGE APPLIES**

Form PEL126 Rev. 1/23

Technical Report

prepared for:

Phoenix Environmental Laboratories, Inc.
P.O. Box 370, 587 East Middle Turnpike
Manchester CT, 06040
Attention: Helen Geoghegan

Report Date: 04/02/2024
Client Project ID: CQ33400-CQ33407
York Project (SDG) No.: 24C1530

Stratford, CT Laboratory IDs:
NY:10854, NJ: CT005, PA: 68-0440, CT: PH-0723

Richmond Hill, NY Laboratory IDs:
NY:12058, NJ: NY037, CT: PH-0721, NH: 2097,
EPA: NY01600

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 04/02/2024
Client Project ID: CQ33400-CQ33407
York Project (SDG) No.: 24C1530

Phoenix Environmental Laboratories, Inc.
P.O. Box 370, 587 East Middle Turnpike
Manchester CT, 06040
Attention: Helen Geoghegan

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 25, 2024 and listed below. The project was identified as your project: **CQ33400-CQ33407**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
24C1530-01	CQ33400	Soil	03/21/2024	03/25/2024
24C1530-02	CQ33401	Soil	03/21/2024	03/25/2024
24C1530-03	CQ33402	Soil	03/21/2024	03/25/2024
24C1530-04	CQ33403	Soil	03/21/2024	03/25/2024
24C1530-05	CQ33404	Soil	03/21/2024	03/25/2024
24C1530-06	CQ33405	Water	03/21/2024	03/25/2024
24C1530-07	CQ33406	Water	03/21/2024	03/25/2024
24C1530-08	CQ33407	Soil	03/21/2024	03/25/2024

General Notes for York Project (SDG) No.: 24C1530

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854, NJ Cert No. CT005, PA Cert No. 68-04440, CT Cert No. PH-0723; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058, NJ Cert No. NY037, CT Cert No. PH-0721, NH Cert No. 2097, EPA Cert No. NY01600.

Approved By: 

Date: 04/02/2024

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: CQ33400 **York Sample ID:** 24C1530-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24C1530	CQ33400-CQ33407	Soil	March 21, 2024 11:00 am	03/25/2024

PFAS, CTDEEP Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.239	1	EPA 537m Certifications:	03/29/2024 11:09	04/01/2024 14:01	ESJ
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.239	1	EPA 537m Certifications:	03/29/2024 11:09	04/01/2024 14:01	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.239	1	EPA 537m Certifications:	03/29/2024 11:09	04/01/2024 14:01	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.239	1	EPA 537m Certifications:	03/29/2024 11:09	04/01/2024 14:01	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.239	1	EPA 537m Certifications:	03/29/2024 11:09	04/01/2024 14:01	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M4PFHpA	*97.1 %*	*25-150*
Surrogate: M3PFHxS	*87.5 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*89.5 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*74.8 %*	*25-150*
Surrogate: M9PFNA	*88.2 %*	*25-150*

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**96.4**		%	0.100	1	SM 2540G Certifications: CTDOH-PH-0723	03/29/2024 17:43	03/29/2024 17:47	AC

Sample Information

Client Sample ID: CQ33401 **York Sample ID:** 24C1530-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24C1530	CQ33400-CQ33407	Soil	March 21, 2024 9:40 am	03/25/2024

PFAS, CTDEEP Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.272	1	EPA 537m Certifications:	03/29/2024 11:09	04/01/2024 14:40	ESJ

Sample Information

Client Sample ID: CQ33401 **York Sample ID:** 24C1530-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24C1530	CQ33400-CQ33407	Soil	March 21, 2024 9:40 am	03/25/2024

PFAS, CTDEEP Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.272	1	EPA 537m Certifications:	03/29/2024 11:09	04/01/2024 14:40	ESJ
335-67-1	**Perfluorooctanoic acid (PFOA)**	**0.387**		ug/kg dry	0.272	1	EPA 537m Certifications:	03/29/2024 11:09	04/01/2024 14:40	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.272	1	EPA 537m Certifications:	03/29/2024 11:09	04/01/2024 14:40	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.272	1	EPA 537m Certifications:	03/29/2024 11:09	04/01/2024 14:40	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M4PFHpA	*91.9 %*	*25-150*
Surrogate: M3PFHxS	*89.1 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*97.0 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*74.4 %*	*25-150*
Surrogate: M9PFNA	*84.6 %*	*25-150*

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**90.3**		%	0.100	1	SM 2540G Certifications: CTDOH-PH-0723	03/29/2024 17:43	03/29/2024 17:47	AC

Sample Information

Client Sample ID: CQ33402 **York Sample ID:** 24C1530-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24C1530	CQ33400-CQ33407	Soil	March 21, 2024 7:00 am	03/25/2024

PFAS, CTDEEP Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.260	1	EPA 537m Certifications:	03/29/2024 11:09	04/01/2024 15:06	ESJ
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.260	1	EPA 537m Certifications:	03/29/2024 11:09	04/01/2024 15:06	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.260	1	EPA 537m Certifications:	03/29/2024 11:09	04/01/2024 15:06	ESJ

Sample Information

Client Sample ID: CQ33402 **York Sample ID:** 24C1530-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24C1530	CQ33400-CQ33407	Soil	March 21, 2024 7:00 am	03/25/2024

PFAS, CTDEEP Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**4.15**	PF-CCV-H, PF-LCS-H	ug/kg dry	0.260	1	EPA 537m Certifications:	03/29/2024 11:09	04/01/2024 15:06	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.260	1	EPA 537m Certifications:	03/29/2024 11:09	04/01/2024 15:06	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M4PFHpA	*90.9 %*	*25-150*
Surrogate: M3PFHxS	*85.8 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*88.6 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*56.8 %*	*25-150*
Surrogate: M9PFNA	*76.7 %*	*25-150*

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**93.8**		%	0.100	1	SM 2540G Certifications: CTDOH-PH-0723	03/29/2024 17:43	03/29/2024 17:47	AC

Sample Information

Client Sample ID: CQ33403 **York Sample ID:** 24C1530-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24C1530	CQ33400-CQ33407	Soil	March 21, 2024 10:20 am	03/25/2024

PFAS, CTDEEP Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.249	1	EPA 537m Certifications:	03/29/2024 11:09	04/01/2024 15:19	ESJ
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.249	1	EPA 537m Certifications:	03/29/2024 11:09	04/01/2024 15:19	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.249	1	EPA 537m Certifications:	03/29/2024 11:09	04/01/2024 15:19	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.249	1	EPA 537m Certifications:	03/29/2024 11:09	04/01/2024 15:19	ESJ

Sample Information

Client Sample ID: **CQ33403** **York Sample ID:** **24C1530-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24C1530	CQ33400-CQ33407	Soil	March 21, 2024 10:20 am	03/25/2024

PFAS, CTDEEP Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.249	1	EPA 537m Certifications:	03/29/2024 11:09	04/01/2024 15:19	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M4PFHpA	*93.8 %*	*25-150*
Surrogate: M3PFHxS	*82.7 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*90.6 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*75.2 %*	*25-150*
Surrogate: M9PFNA	*80.6 %*	*25-150*

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**95.7**		%	0.100	1	SM 2540G Certifications: CTDOH-PH-0723	03/29/2024 17:43	03/29/2024 17:47	AC

Sample Information

Client Sample ID: **CQ33404** **York Sample ID:** **24C1530-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24C1530	CQ33400-CQ33407	Soil	March 21, 2024 7:20 am	03/25/2024

PFAS, CTDEEP Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.267	1	EPA 537m Certifications:	03/29/2024 11:09	04/01/2024 15:32	ESJ
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.267	1	EPA 537m Certifications:	03/29/2024 11:09	04/01/2024 15:32	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.267	1	EPA 537m Certifications:	03/29/2024 11:09	04/01/2024 15:32	ESJ
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**1.04**	PF-CCV-H, PF-LCS-H	ug/kg dry	0.267	1	EPA 537m Certifications:	03/29/2024 11:09	04/01/2024 15:32	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.267	1	EPA 537m Certifications:	03/29/2024 11:09	04/01/2024 15:32	ESJ

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: CQ33404 **York Sample ID:** 24C1530-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24C1530	CQ33400-CQ33407	Soil	March 21, 2024 7:20 am	03/25/2024

PFAS, CTDEEP Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M4PFHpA	*86.8 %*			*25-150*					
	Surrogate: M3PFHxS	*78.8 %*			*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*82.3 %*			*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*65.1 %*			*25-150*					
	Surrogate: M9PFNA	*82.1 %*			*25-150*					

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**92.8**		%	0.100	1	SM 2540G	03/29/2024 17:43	03/29/2024 17:47	AC
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: CQ33405 **York Sample ID:** 24C1530-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24C1530	CQ33400-CQ33407	Water	March 21, 2024 1:00 pm	03/25/2024

PFAS, CTDEEP Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.909	1	EPA 537m Certifications:	03/28/2024 17:30	03/30/2024 13:14	ER
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.909	1	EPA 537m Certifications:	03/28/2024 17:30	03/30/2024 13:14	ER
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	0.909	1	EPA 537m Certifications:	03/28/2024 17:30	03/30/2024 13:14	ER
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.909	1	EPA 537m Certifications:	03/28/2024 17:30	03/30/2024 13:14	ER
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.909	1	EPA 537m Certifications:	03/28/2024 17:30	03/30/2024 13:14	ER

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M4PFHpA	*80.5 %*	*25-150*
Surrogate: M3PFHxS	*73.4 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*74.2 %*	*25-150*

Sample Information

Client Sample ID: CQ33405 **York Sample ID:** 24C1530-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24C1530	CQ33400-CQ33407	Water	March 21, 2024 1:00 pm	03/25/2024

PFAS, CTDEEP Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*79.4 %*		*25-150*						
	Surrogate: M9PFNA	*75.9 %*		*25-150*						

Sample Information

Client Sample ID: CQ33406 **York Sample ID:** 24C1530-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24C1530	CQ33400-CQ33407	Water	March 21, 2024 3:00 pm	03/25/2024

PFAS, CTDEEP Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.912	1	EPA 537m Certifications:	03/28/2024 17:30	03/30/2024 13:27	ER
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.912	1	EPA 537m Certifications:	03/28/2024 17:30	03/30/2024 13:27	ER
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	0.912	1	EPA 537m Certifications:	03/28/2024 17:30	03/30/2024 13:27	ER
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.912	1	EPA 537m Certifications:	03/28/2024 17:30	03/30/2024 13:27	ER
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.912	1	EPA 537m Certifications:	03/28/2024 17:30	03/30/2024 13:27	ER

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M4PFHpA	*75.0 %*	*25-150*
Surrogate: M3PFHxS	*72.6 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*80.4 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*70.4 %*	*25-150*
Surrogate: M9PFNA	*72.4 %*	*25-150*

Sample Information

Client Sample ID: CQ33407 **York Sample ID:** 24C1530-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24C1530	CQ33400-CQ33407	Soil	March 21, 2024 3:00 pm	03/25/2024

PFAS, CTDEEP Target List **Log-in Notes:** **Sample Notes:**

Sample Information

Client Sample ID: CQ33407 **York Sample ID:** 24C1530-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24C1530	CQ33400-CQ33407	Soil	March 21, 2024 3:00 pm	03/25/2024

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.256	1	EPA 537m Certifications:	03/29/2024 11:09	04/01/2024 15:45	ESJ
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.256	1	EPA 537m Certifications:	03/29/2024 11:09	04/01/2024 15:45	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.256	1	EPA 537m Certifications:	03/29/2024 11:09	04/01/2024 15:45	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.256	1	EPA 537m Certifications:	03/29/2024 11:09	04/01/2024 15:45	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.256	1	EPA 537m Certifications:	03/29/2024 11:09	04/01/2024 15:45	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M4PFHpA	*83.1 %*	*25-150*
Surrogate: M3PFHxS	*82.2 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*82.5 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*70.7 %*	*25-150*
Surrogate: M9PFNA	*80.6 %*	*25-150*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**91.3**		%	0.100	1	SM 2540G Certifications: CTDOH-PH-0723	03/29/2024 17:43	03/29/2024 17:47	AC

Analytical Batch Summary

Batch ID: BC41882 **Preparation Method:** % Solids Prep **Prepared By:** AC

YORK Sample ID	Client Sample ID	Preparation Date
24C1530-01	CQ33400	03/29/24
24C1530-02	CQ33401	03/29/24
24C1530-03	CQ33402	03/29/24
24C1530-04	CQ33403	03/29/24
24C1530-05	CQ33404	03/29/24
24C1530-08	CQ33407	03/29/24
BC41882-DUP1	Duplicate	03/29/24

Batch ID: BC42092 **Preparation Method:** SPE Ext-PFAS-EPA 537.1M **Prepared By:** DRF

YORK Sample ID	Client Sample ID	Preparation Date
24C1530-06	CQ33405	03/28/24
24C1530-07	CQ33406	03/28/24
BC42092-BLK1	Blank	03/28/24
BC42092-BS1	LCS	03/28/24
BC42092-BSD1	LCS Dup	03/28/24

Batch ID: BC42144 **Preparation Method:** SPE Ext-PFAS-EPA 537.1M **Prepared By:** AM

YORK Sample ID	Client Sample ID	Preparation Date
24C1530-01	CQ33400	03/29/24
24C1530-02	CQ33401	03/29/24
24C1530-03	CQ33402	03/29/24
24C1530-04	CQ33403	03/29/24
24C1530-05	CQ33404	03/29/24
24C1530-08	CQ33407	03/29/24
BC42144-BLK1	Blank	03/29/24
BC42144-BS1	LCS	03/29/24
BC42144-MS1	Matrix Spike	03/29/24
BC42144-MSD1	Matrix Spike Dup	03/29/24

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC42092 - SPE Ext-PFAS-EPA 537.1M											
Blank (BC42092-BLK1)								Prepared: 03/28/2024 Analyzed: 03/30/2024			
Perfluoroheptanoic acid (PFHpA)	ND	2.00	ng/L								
Perfluorohexanesulfonic acid (PFHxS)	ND	2.00	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	2.00	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Surrogate: M4PFHpA	*65.2*		*"*	*80.0*		*81.5*	*25-150*				
Surrogate: M3PFHxS	*57.2*		*"*	*80.0*		*71.5*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*58.9*		*"*	*80.0*		*73.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*50.1*		*"*	*80.0*		*62.6*	*25-150*				
Surrogate: M9PFNA	*57.7*		*"*	*80.0*		*72.1*	*25-150*				
LCS (BC42092-BS1)								Prepared: 03/28/2024 Analyzed: 03/30/2024			
Perfluoroheptanoic acid (PFHpA)	71.9	2.00	ng/L	80.0		89.9	50-130				
Perfluorohexanesulfonic acid (PFHxS)	82.7	2.00	"	72.8		114	50-130				
Perfluorooctanoic acid (PFOA)	84.3	2.00	"	80.0		105	50-130				
Perfluorooctanesulfonic acid (PFOS)	99.5	2.00	"	74.0		135	50-130	High Bias			
Perfluorononanoic acid (PFNA)	80.5	2.00	"	80.0		101	50-130				
Surrogate: M4PFHpA	*64.5*		*"*	*80.0*		*80.7*	*25-150*				
Surrogate: M3PFHxS	*54.1*		*"*	*80.0*		*67.6*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*59.7*		*"*	*80.0*		*74.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*53.6*		*"*	*80.0*		*67.0*	*25-150*				
Surrogate: M9PFNA	*56.7*		*"*	*80.0*		*70.9*	*25-150*				
LCS Dup (BC42092-BSD1)								Prepared: 03/28/2024 Analyzed: 03/30/2024			
Perfluoroheptanoic acid (PFHpA)	65.6	2.00	ng/L	80.0		82.0	50-130		9.20	30	
Perfluorohexanesulfonic acid (PFHxS)	70.3	2.00	"	72.8		96.5	50-130		16.3	30	
Perfluorooctanoic acid (PFOA)	80.1	2.00	"	80.0		100	50-130		5.09	30	
Perfluorooctanesulfonic acid (PFOS)	84.7	2.00	"	74.0		115	50-130		16.0	30	
Perfluorononanoic acid (PFNA)	67.7	2.00	"	80.0		84.6	50-130		17.3	30	
Surrogate: M4PFHpA	*67.6*		*"*	*80.0*		*84.5*	*25-150*				
Surrogate: M3PFHxS	*57.0*		*"*	*80.0*		*71.2*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*63.2*		*"*	*80.0*		*79.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*56.2*		*"*	*80.0*		*70.3*	*25-150*				
Surrogate: M9PFNA	*64.3*		*"*	*80.0*		*80.4*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC42144 - SPE Ext-PFAS-EPA 537.1M											
Blank (BC42144-BLK1)									Prepared: 03/29/2024 Analyzed: 04/01/2024		
Perfluoroheptanoic acid (PFHpA)	ND	0.246	ug/kg wet								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.246	"								
Perfluorooctanoic acid (PFOA)	ND	0.246	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.246	"								
Perfluorononanoic acid (PFNA)	ND	0.246	"								
Surrogate: M4PFHpA	*4.14*		*"*	*4.93*		*84.1*	*25-150*				
Surrogate: M3PFHxS	*3.83*		*"*	*4.93*		*77.8*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*4.54*		*"*	*4.93*		*92.1*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*3.77*		*"*	*4.93*		*76.4*	*25-150*				
Surrogate: M9PFNA	*4.38*		*"*	*4.93*		*88.9*	*25-150*				
LCS (BC42144-BS1)									Prepared: 03/29/2024 Analyzed: 04/01/2024		
Perfluoroheptanoic acid (PFHpA)	4.65	0.243	ug/kg wet	4.85		95.9	50-130				
Perfluorohexanesulfonic acid (PFHxS)	5.25	0.243	"	4.42		119	50-130				
Perfluorooctanoic acid (PFOA)	5.27	0.243	"	4.85		108	50-130				
Perfluorooctanesulfonic acid (PFOS)	6.54	0.243	"	4.49		146	50-130	High Bias			
Perfluorononanoic acid (PFNA)	4.09	0.243	"	4.85		84.2	50-130				
Surrogate: M4PFHpA	*4.85*		*"*	*4.85*		*99.8*	*25-150*				
Surrogate: M3PFHxS	*4.20*		*"*	*4.85*		*86.5*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*4.35*		*"*	*4.85*		*89.7*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*3.59*		*"*	*4.85*		*74.0*	*25-150*				
Surrogate: M9PFNA	*4.73*		*"*	*4.85*		*97.5*	*25-150*				
Matrix Spike (BC42144-MS1)	*Source sample: 24C1530-01 (CQ33400)								Prepared: 03/29/2024 Analyzed: 04/01/2024		
Perfluoroheptanoic acid (PFHpA)	4.31	0.246	ug/kg dry	4.91	ND	87.8	25-150				
Perfluorohexanesulfonic acid (PFHxS)	4.06	0.246	"	4.47	ND	90.7	25-150				
Perfluorooctanoic acid (PFOA)	4.49	0.246	"	4.91	ND	91.4	25-150				
Perfluorooctanesulfonic acid (PFOS)	4.70	0.246	"	4.55	0.0801	102	25-150				
Perfluorononanoic acid (PFNA)	4.42	0.246	"	4.91	ND	89.9	25-150				
Surrogate: M4PFHpA	*4.64*		*"*	*4.91*		*94.4*	*25-150*				
Surrogate: M3PFHxS	*4.17*		*"*	*4.91*		*84.8*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*4.77*		*"*	*4.91*		*97.1*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*3.43*		*"*	*4.91*		*69.9*	*25-150*				
Surrogate: M9PFNA	*3.81*		*"*	*4.91*		*77.6*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC42144 - SPE Ext-PFAS-EPA 537.1M											
Matrix Spike Dup (BC42144-MSD1)	*Source sample: 24C1530-01 (CQ33400)								Prepared: 03/29/2024 Analyzed: 04/01/2024		
Perfluoroheptanoic acid (PFHpA)	4.11	0.247	ug/kg dry	4.94	ND	83.3	25-150		4.72	35	
Perfluorohexanesulfonic acid (PFHxS)	4.76	0.247	"	4.49	ND	106	25-150		16.0	35	
Perfluorooctanoic acid (PFOA)	4.45	0.247	"	4.94	ND	90.1	25-150		0.963	35	
Perfluorooctanesulfonic acid (PFOS)	4.47	0.247	"	4.57	0.0801	96.2	25-150		5.00	35	
Perfluorononanoic acid (PFNA)	4.20	0.247	"	4.94	ND	85.1	25-150		5.03	35	
Surrogate: M4PFHpA	*5.14*		*"*	*4.94*		*104*	*25-150*				
Surrogate: M3PFHxS	*4.29*		*"*	*4.94*		*86.8*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*5.01*		*"*	*4.94*		*101*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*4.06*		*"*	*4.94*		*82.2*	*25-150*				
Surrogate: M9PFNA	*4.71*		*"*	*4.94*		*95.4*	*25-150*				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC41882 - % Solids Prep											
Duplicate (BC41882-DUP1)	*Source sample: 24C1539-01 (Duplicate)							Prepared & Analyzed: 03/29/2024			
% Solids	88.6	0.100	%		90.6				2.31	20	


YORK
ANALYTICAL LABORATORIES INC

Sample and Data Qualifiers Relating to This Work Order

PF-LCS-H The LCS recovery for this PFAS compound was above control limits.

PF-CCV-H The CCV recovery for this PFAS compound was above control limits.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

24C1530 Coolant: IPK ☐ ICE ☑ Cooler: Yes ☑ No ☐ / No ☐

Temp 1.1 °C Pg of

CHAIN OF CUSTODY RECORD

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PHOENIX Environmental Laboratories, Inc.

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Customer: York Analytical Laboratories
Address: 120 Research Drive
Stratford, CT
(203) 325-1371

Project #: GCQ33400
Report to: HelenG@PhoenixLabs.com / Helen Geoghegan
Invoice to: AccountsPayable@PhoenixLabs.com
Quote# :

Project P.O: GCQ33400

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature _____ Date: _____

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

Phoenix Sample ID	Sample Comment	Sample Matrix	Date Sampled	Time Sampled	PFAS (CT) E537 modified	PFAS CT DEEP (5) E537 modified	250ml HDPE Plastic As Is	8oz HDPE Plastic As Is
CQ33400	CT DEEP list of 5	SOIL	3/21/2024	11:00 AM		x		1
CQ33401	CT DEEP list of 5	SOIL	3/21/2024	9:40 AM		x		1
CQ33402	CT DEEP list of 5	SOIL	3/21/2024	7:00 AM		x		1
CQ33403	CT DEEP list of 5	SOIL	3/21/2024	10:20 AM		x		1
CQ33404	CT DEEP list of 5	SOIL	3/21/2024	7:20 AM		x		1
CQ33405	CT DEEP list of 5 EB	WTR	3/21/2024	1:00 PM	x		2	
CQ33406	CT DEEP list of 5 FB	WTR	3/21/2024		x		2	
CQ33407	CT DEEP list of 5	SOIL	3/21/2024			x		1

Relinquished by:	Accepted by:	Date:	Time:
Zoe Bradley	DOMINIC G	3.25.24	12:30
DOMINIC G		3/25/24	14:25
	Marcel	3-26-24	14:33

Comments, Special Requirements or Regulations:
cl: Marcel 3/26/24

ase send notice as soon as possible not exceeding 24 hours of obtaining valid data, of the results of all drinking er samples that exceed any EPA or Department-established maximum contaminant level, maximum residual nfectant level or reportable concentration.
ase notify Phoenix Environmental Laboratories, Inc. immediately and prior to conducting analysis if certification ot held for the analyses requested.

Turnaround:
☐ 1 Day
☐ 2 Days
☐ 3 Days
☐ 5 Days
☐ 10 Days
☒ Standard
☐ Other_____

Report Type:
☒ Standard PDF
☐ Full Data Package
☐ NJ Reduced Deliverable
☐ NJ Full Deliverable
☐ NY ASP B

EDD Format:
☐ Excel
☐ GIS/Key
☐ EQuIS
☐ NJ Hazsite EDD
☐ NY EZ EDD (ASP)
☐ Other:_____

State Criteria:
CT: RCP
CT: GA Mobility
CT: Res. Criteria

What State were samples collected?
CT

03/27/24 911 4.2C

PHOENIX
Environmental Laboratories, Inc.

Monday, April 15, 2024

Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: 105093
SDG ID: GCQ34019
Sample ID#s: CQ34019 - CQ34027, CQ34029 - CQ34030

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

April 15, 2024

SDG I.D.: GCQ34019

Project ID: 105093

Client Id	Lab Id	Matrix
TP-2 (5-7)	CQ34019	SOIL
TP-3 (7-9)	CQ34020	SOIL
TP-4 (8-9)	CQ34021	SOIL
TP-5 (6-8)	CQ34022	SOIL
TP-6 (4`)	CQ34023	SOIL
TP-7 (4)	CQ34024	SOIL
TP-8 (6)	CQ34025	SOIL
TP-9 (4`)	CQ34026	SOIL
TP-10 (4`)	CQ34027	SOIL
TP-11 (6-8)	CQ34029	SOIL
TP-11 (8-10)	CQ34030	SOIL

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 15, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	03/20/24	12:50
Location Code:	TIGHE-DAS	Received by:	SR1	03/22/24	16:30
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ34019
Phoenix ID: CQ34019

Project ID: 105093
Client ID: TP-2 (5-7)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	03/26/24	TH	SW6010D
Arsenic	4.46	0.72	mg/Kg	1	03/26/24	TH	SW6010D
Barium	92.3	0.36	mg/Kg	1	03/26/24	TH	SW6010D
Beryllium	0.41	0.29	mg/Kg	1	03/26/24	TH	SW6010D
Cadmium	2.93	0.36	mg/Kg	1	03/26/24	TH	SW6010D
Chromium	24.8	0.36	mg/Kg	1	03/26/24	TH	SW6010D
Copper	1340	0.7	mg/kg	1	03/26/24	TH	SW6010D
Mercury	0.34	0.03	mg/Kg	2	03/25/24	GW	SW7471B
Nickel	22.5	0.36	mg/Kg	1	03/26/24	TH	SW6010D
Lead	201	0.36	mg/Kg	1	03/26/24	TH	SW6010D
Antimony	6.1	3.6	mg/Kg	1	03/26/24	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	03/26/24	TH	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	04/11/24	TH	SW6010D
SPLP Chromium	< 0.010	0.010	mg/L	1	04/11/24	TH	SW6010D
SPLP Copper	0.100	0.010	mg/L	1	04/11/24	TH	SW6010D
SPLP Nickel	< 0.010	0.010	mg/L	1	04/11/24	TH	SW6010D
SPLP Antimony	< 0.005	0.005	mg/L	1	04/11/24	TH	SW6010D
SPLP Vanadium	< 0.010	0.010	mg/L	1	04/11/24	TH	SW6010D
SPLP Zinc	0.092	0.010	mg/L	1	04/11/24	TH	SW6010D
Thallium	< 3.3	3.3	mg/Kg	1	03/26/24	TH	SW6010D
SPLP Metals Digestion	Completed				04/11/24	AL/AL	SW3010A
Vanadium	34.6	0.36	mg/Kg	1	03/26/24	TH	SW6010D
Zinc	1080	0.7	mg/Kg	1	03/26/24	TH	SW6010D
Percent Solid	91		%		03/22/24	CV	SW846-%Solid
Field Extraction	Completed				03/20/24		SW5035A
Mercury Digestion	Completed				03/25/24	HL/HL	SW7471B
Extraction of ETPH	Completed				03/28/24	MQ/U	SW3546

Ver 2

Project ID: 105093
Client ID: TP-2 (5-7)

Phoenix I.D.: CQ34019

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Soil Extraction for SVOA	Completed				03/28/24	C/A	SW3546
Extraction for PCB	Completed				03/25/24	J/AC1	SW3540C
SPLP Extraction for Metals	Completed				04/10/24	AL	SW1312
Total Metals Digest	Completed				03/22/24	J/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	03/29/24	JRB	CTETPH
Identification	ND		mg/Kg	1	03/29/24	JRB	CTETPH
QA/QC Surrogates							
% COD (surr)	73		%	1	03/29/24	JRB	50 - 150 %
% Terphenyl (surr)	83		%	1	03/29/24	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	03/26/24	SC	SW8082A
Total PCBs	ND	360	ug/Kg	10	03/26/24	SC	SW8082A
QA/QC Surrogates							
% DCBP	104		%	10	03/26/24	SC	30 - 150 %
% DCBP (Confirmation)	120		%	10	03/26/24	SC	30 - 150 %
% TCMX	98		%	10	03/26/24	SC	30 - 150 %
% TCMX (Confirmation)	87		%	10	03/26/24	SC	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
1,1,1-Trichloroethane	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	1	03/23/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
1,1-Dichloroethane	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
1,1-Dichloroethene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
1,1-Dichloropropene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
1,2,3-Trichloropropane	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	03/23/24	JLI	SW8260D
1,2-Dibromoethane	ND	0.51	ug/Kg	1	03/23/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
1,2-Dichloroethane	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
1,2-Dichloropropane	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
1,3-Dichloropropane	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D

Project ID: 105093
Client ID: TP-2 (5-7)

Phoenix I.D.: CQ34019

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2,2-Dichloropropane	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
2-Chlorotoluene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
2-Hexanone	ND	26	ug/Kg	1	03/23/24	JLI	SW8260D
2-Isopropyltoluene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
4-Chlorotoluene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	26	ug/Kg	1	03/23/24	JLI	SW8260D
Acetone	ND	260	ug/Kg	1	03/23/24	JLI	SW8260D
Acrylonitrile	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
Benzene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
Bromobenzene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
Bromochloromethane	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
Bromodichloromethane	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
Bromoform	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
Bromomethane	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
Carbon Disulfide	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
Carbon tetrachloride	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
Chlorobenzene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
Chloroethane	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
Chloroform	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
Chloromethane	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
cis-1,3-Dichloropropene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
Dibromochloromethane	ND	3.1	ug/Kg	1	03/23/24	JLI	SW8260D
Dibromomethane	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
Dichlorodifluoromethane	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
Ethylbenzene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
Hexachlorobutadiene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
Isopropylbenzene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
m&p-Xylene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
Methyl Ethyl Ketone	ND	31	ug/Kg	1	03/23/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	03/23/24	JLI	SW8260D
Methylene chloride	ND	10	ug/Kg	1	03/23/24	JLI	SW8260D
Naphthalene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
n-Butylbenzene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
n-Propylbenzene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
o-Xylene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
p-Isopropyltoluene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
sec-Butylbenzene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
Styrene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
tert-Butylbenzene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
Tetrachloroethene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	03/23/24	JLI	SW8260D
Toluene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
Total Xylenes	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	03/23/24	JLI	SW8260D
Trichloroethene	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
Trichlorofluoromethane	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D

Project ID: 105093
Client ID: TP-2 (5-7)

Phoenix I.D.: CQ34019

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Trichlorotrifluoroethane	ND	10	ug/Kg	1	03/23/24	JLI	SW8260D
Vinyl chloride	ND	5.1	ug/Kg	1	03/23/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	105		%	1	03/23/24	JLI	70 - 130 %
% Bromofluorobenzene	91		%	1	03/23/24	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	03/23/24	JLI	70 - 130 %
% Toluene-d8	98		%	1	03/23/24	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	77	ug/kg	1	03/23/24	JLI	SW8260D
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	03/29/24	MR	SW8270E
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
1,2-Dichlorobenzene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
1,3-Dichlorobenzene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
1,4-Dichlorobenzene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
2,4-Dichlorophenol	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
2,4-Dimethylphenol	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	03/29/24	MR	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
2-Chloronaphthalene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
2-Chlorophenol	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
2-Methylnaphthalene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	03/29/24	MR	SW8270E
2-Nitrophenol	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	03/29/24	MR	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	03/29/24	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	03/29/24	MR	SW8270E
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	03/29/24	MR	SW8270E
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	03/29/24	MR	SW8270E
4-Nitrophenol	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Acenaphthene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Acenaphthylene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Acetophenone	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Aniline	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
Anthracene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Benz(a)anthracene	940	250	ug/Kg	1	03/29/24	MR	SW8270E
Benzidine	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
Benzo(a)pyrene	1000	250	ug/Kg	1	03/29/24	MR	SW8270E

Project ID: 105093
Client ID: TP-2 (5-7)

Phoenix I.D.: CQ34019

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(b)fluoranthene	1200	250	ug/Kg	1	03/29/24	MR	SW8270E
Benzo(ghi)perylene	530	250	ug/Kg	1	03/29/24	MR	SW8270E
Benzo(k)fluoranthene	450	250	ug/Kg	1	03/29/24	MR	SW8270E
Benzoic acid	ND	730	ug/Kg	1	03/29/24	MR	SW8270E
Benzyl butyl phthalate	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	03/29/24	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	360	ug/Kg	1	03/29/24	MR	SW8270E
Carbazole	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
Chrysene	890	250	ug/Kg	1	03/29/24	MR	SW8270E
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
Diethyl phthalate	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Dimethylphthalate	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Di-n-butylphthalate	ND	360	ug/Kg	1	03/29/24	MR	SW8270E
Di-n-octylphthalate	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Fluoranthene	1500	250	ug/Kg	1	03/29/24	MR	SW8270E
Fluorene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Hexachlorobenzene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Hexachloroethane	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	660	250	ug/Kg	1	03/29/24	MR	SW8270E
Isophorone	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Naphthalene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Nitrobenzene	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	03/29/24	MR	SW8270E
Pentachlorophenol	ND	360	ug/Kg	1	03/29/24	MR	SW8270E
Phenanthrene	690	250	ug/Kg	1	03/29/24	MR	SW8270E
Phenol	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Pyrene	1400	250	ug/Kg	1	03/29/24	MR	SW8270E
Pyridine	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	99		%	1	03/29/24	MR	30 - 130 %
% 2-Fluorobiphenyl	73		%	1	03/29/24	MR	30 - 130 %
% 2-Fluorophenol	70		%	1	03/29/24	MR	30 - 130 %
% Nitrobenzene-d5	74		%	1	03/29/24	MR	30 - 130 %
% Phenol-d5	74		%	1	03/29/24	MR	30 - 130 %
% Terphenyl-d14	76		%	1	03/29/24	MR	30 - 130 %

Project ID: 105093
Client ID: TP-2 (5-7)

Phoenix I.D.: CQ34019

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

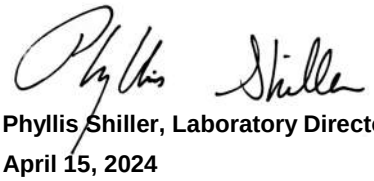
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

April 15, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 15, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	03/20/24	12:15
Location Code:	TIGHE-DAS	Received by:	SR1	03/22/24	16:30
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ34019
Phoenix ID: CQ34020

Project ID: 105093
Client ID: TP-3 (7-9)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	03/26/24	TH	SW6010D
Arsenic	6.22	0.75	mg/Kg	1	03/26/24	TH	SW6010D
Barium	197	0.37	mg/Kg	1	03/26/24	TH	SW6010D
Beryllium	0.46	0.30	mg/Kg	1	03/26/24	TH	SW6010D
Cadmium	3.66	0.37	mg/Kg	1	03/26/24	TH	SW6010D
Chromium	22.3	0.37	mg/Kg	1	03/26/24	TH	SW6010D
Copper	695	0.7	mg/kg	1	03/26/24	TH	SW6010D
Mercury	0.15	0.03	mg/Kg	2	03/25/24	GW	SW7471B
Nickel	28.9	0.37	mg/Kg	1	03/26/24	TH	SW6010D
Lead	638	0.37	mg/Kg	1	03/26/24	TH	SW6010D
Antimony	7.3	3.7	mg/Kg	1	03/26/24	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	03/26/24	TH	SW6010D
SPLP Barium	0.029	0.010	mg/L	1	04/11/24	TH	SW6010D
SPLP Beryllium	< 0.001	0.001	mg/L	1	04/11/24	TH	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	04/11/24	TH	SW6010D
SPLP Chromium	< 0.010	0.010	mg/L	1	04/11/24	TH	SW6010D
SPLP Copper	0.039	0.010	mg/L	1	04/11/24	TH	SW6010D
SPLP Nickel	< 0.010	0.010	mg/L	1	04/11/24	TH	SW6010D
SPLP Lead	0.048	0.010	mg/L	1	04/11/24	TH	SW6010D
SPLP Antimony	< 0.005	0.005	mg/L	1	04/11/24	TH	SW6010D
SPLP Zinc	0.066	0.010	mg/L	1	04/11/24	TH	SW6010D
Thallium	< 3.4	3.4	mg/Kg	1	03/26/24	TH	SW6010D
SPLP Metals Digestion	Completed				04/11/24	AL/AL	SW3010A
Vanadium	28.3	0.37	mg/Kg	1	03/26/24	TH	SW6010D
Zinc	790	0.7	mg/Kg	1	03/26/24	TH	SW6010D
Percent Solid	88		%		03/22/24	CV	SW846-%Solid
Field Extraction	Completed				03/20/24		SW5035A

Ver 2

Project ID: 105093
Client ID: TP-3 (7-9)

Phoenix I.D.: CQ34020

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Mercury Digestion	Completed				03/25/24	HL/HL	SW7471B
Extraction of ETPH	Completed				03/28/24	MQ/U	SW3546
Soil Extraction for SVOA	Completed				03/28/24	C/A	SW3546
Extraction for PCB	Completed				03/25/24	J/AC1	SW3540C
SPLP Extraction for Metals	Completed				04/10/24	AL	SW1312
Total Metals Digest	Completed				03/22/24	J/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	280	mg/Kg	5	03/29/24	JRB	CTETPH
Identification	ND		mg/Kg	5	03/29/24	JRB	CTETPH
QA/QC Surrogates							
% COD (surr)	Interference		%	5	03/29/24	JRB	50 - 150 %
% Terphenyl (surr)	104		%	5	03/29/24	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	03/26/24	SC	SW8082A
Total PCBs	ND	370	ug/Kg	10	03/26/24	SC	SW8082A
QA/QC Surrogates							
% DCBP	98		%	10	03/26/24	SC	30 - 150 %
% DCBP (Confirmation)	96		%	10	03/26/24	SC	30 - 150 %
% TCMX	96		%	10	03/26/24	SC	30 - 150 %
% TCMX (Confirmation)	89		%	10	03/26/24	SC	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
1,1,1-Trichloroethane	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	1	03/23/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
1,1-Dichloroethane	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
1,1-Dichloroethene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
1,1-Dichloropropene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
1,2,3-Trichloropropane	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	03/23/24	JLI	SW8260D
1,2-Dibromoethane	ND	0.54	ug/Kg	1	03/23/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
1,2-Dichloroethane	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
1,2-Dichloropropane	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D

Project ID: 105093
Client ID: TP-3 (7-9)

Phoenix I.D.: CQ34020

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichloropropane	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
2,2-Dichloropropane	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
2-Chlorotoluene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
2-Hexanone	ND	27	ug/Kg	1	03/23/24	JLI	SW8260D
2-Isopropyltoluene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
4-Chlorotoluene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	27	ug/Kg	1	03/23/24	JLI	SW8260D
Acetone	ND	270	ug/Kg	1	03/23/24	JLI	SW8260D
Acrylonitrile	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
Benzene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
Bromobenzene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
Bromochloromethane	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
Bromodichloromethane	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
Bromoform	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
Bromomethane	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
Carbon Disulfide	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
Carbon tetrachloride	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
Chlorobenzene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
Chloroethane	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
Chloroform	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
Chloromethane	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
Dibromochloromethane	ND	3.2	ug/Kg	1	03/23/24	JLI	SW8260D
Dibromomethane	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
Dichlorodifluoromethane	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
Ethylbenzene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
Hexachlorobutadiene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
Isopropylbenzene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
m&p-Xylene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
Methyl Ethyl Ketone	ND	32	ug/Kg	1	03/23/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	03/23/24	JLI	SW8260D
Methylene chloride	ND	11	ug/Kg	1	03/23/24	JLI	SW8260D
Naphthalene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
n-Butylbenzene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
n-Propylbenzene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
o-Xylene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
p-Isopropyltoluene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
sec-Butylbenzene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
Styrene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
tert-Butylbenzene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
Tetrachloroethene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	03/23/24	JLI	SW8260D
Toluene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
Total Xylenes	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	03/23/24	JLI	SW8260D

Project ID: 105093
Client ID: TP-3 (7-9)

Phoenix I.D.: CQ34020

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Trichloroethene	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
Trichlorofluoromethane	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	11	ug/Kg	1	03/23/24	JLI	SW8260D
Vinyl chloride	ND	5.4	ug/Kg	1	03/23/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	03/23/24	JLI	70 - 130 %
% Bromofluorobenzene	88		%	1	03/23/24	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	03/23/24	JLI	70 - 130 %
% Toluene-d8	98		%	1	03/23/24	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	81	ug/kg	1	03/23/24	JLI	SW8260D
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	03/29/24	MR	SW8270E
1,2,4-Trichlorobenzene	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
1,2-Dichlorobenzene	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
1,3-Dichlorobenzene	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
1,4-Dichlorobenzene	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
2,4-Dichlorophenol	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
2,4-Dimethylphenol	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	03/29/24	MR	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
2-Chloronaphthalene	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
2-Chlorophenol	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
2-Methylnaphthalene	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	03/29/24	MR	SW8270E
2-Nitrophenol	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	03/29/24	MR	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	03/29/24	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	03/29/24	MR	SW8270E
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	03/29/24	MR	SW8270E
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	03/29/24	MR	SW8270E
4-Nitrophenol	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Acenaphthene	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Acenaphthylene	410	260	ug/Kg	1	03/29/24	MR	SW8270E
Acetophenone	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Aniline	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
Anthracene	610	260	ug/Kg	1	03/29/24	MR	SW8270E
Benz(a)anthracene	1700	260	ug/Kg	1	03/29/24	MR	SW8270E

Project ID: 105093
Client ID: TP-3 (7-9)

Phoenix I.D.: CQ34020

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzidine	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
Benzo(a)pyrene	2100	260	ug/Kg	1	03/29/24	MR	SW8270E
Benzo(b)fluoranthene	2500	260	ug/Kg	1	03/29/24	MR	SW8270E
Benzo(ghi)perylene	1300	260	ug/Kg	1	03/29/24	MR	SW8270E
Benzo(k)fluoranthene	810	260	ug/Kg	1	03/29/24	MR	SW8270E
Benzoic acid	ND	760	ug/Kg	1	03/29/24	MR	SW8270E
Benzyl butyl phthalate	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	03/29/24	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	380	ug/Kg	1	03/29/24	MR	SW8270E
Carbazole	310	200	ug/Kg	1	03/29/24	MR	SW8270E
Chrysene	1800	260	ug/Kg	1	03/29/24	MR	SW8270E
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Dibenzofuran	250	200	ug/Kg	1	03/29/24	MR	SW8270E
Diethyl phthalate	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Dimethylphthalate	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Di-n-butylphthalate	ND	380	ug/Kg	1	03/29/24	MR	SW8270E
Di-n-octylphthalate	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Fluoranthene	4100	260	ug/Kg	1	03/29/24	MR	SW8270E
Fluorene	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Hexachlorobenzene	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Hexachloroethane	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	1500	260	ug/Kg	1	03/29/24	MR	SW8270E
Isophorone	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Naphthalene	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Nitrobenzene	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	03/29/24	MR	SW8270E
Pentachlorophenol	ND	380	ug/Kg	1	03/29/24	MR	SW8270E
Phenanthrene	3200	260	ug/Kg	1	03/29/24	MR	SW8270E
Phenol	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Pyrene	3700	260	ug/Kg	1	03/29/24	MR	SW8270E
Pyridine	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	97		%	1	03/29/24	MR	30 - 130 %
% 2-Fluorobiphenyl	73		%	1	03/29/24	MR	30 - 130 %
% 2-Fluorophenol	69		%	1	03/29/24	MR	30 - 130 %
% Nitrobenzene-d5	76		%	1	03/29/24	MR	30 - 130 %
% Phenol-d5	74		%	1	03/29/24	MR	30 - 130 %
% Terphenyl-d14	74		%	1	03/29/24	MR	30 - 130 %

Project ID: 105093
Client ID: TP-3 (7-9)

Phoenix I.D.: CQ34020

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

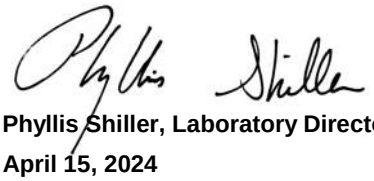
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

April 15, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 15, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	03/20/24	13:30
Location Code:	TIGHE-DAS	Received by:	SR1	03/22/24	16:30
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ34019
Phoenix ID: CQ34021

Project ID: 105093
Client ID: TP-4 (8-9)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		03/22/24	CV	SW846-%Solid
Extraction of ETPH	Completed				03/28/24	MQ/U	SW3546
Soil Extraction for SVOA PAH	Completed				03/28/24	C/A	SW3546
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	03/29/24	JRB	CTETPH
Identification	ND		mg/Kg	1	03/29/24	JRB	CTETPH
QA/QC Surrogates							
% COD (surr)	91		%	1	03/29/24	JRB	50 - 150 %
% Terphenyl (surr)	92		%	1	03/29/24	JRB	50 - 150 %
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Benzene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Chlorobenzene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Ethylbenzene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Isopropylbenzene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
m&p-Xylene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Naphthalene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
n-Butylbenzene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D

Project ID: 105093
Client ID: TP-4 (8-9)

Phoenix I.D.: CQ34021

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
o-Xylene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
p-Isopropyltoluene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
sec-Butylbenzene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Styrene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
tert-Butylbenzene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Toluene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Total Xylenes	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	03/23/24	JLI	70 - 130 %
% Bromofluorobenzene	100		%	1	03/23/24	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	03/23/24	JLI	70 - 130 %
% Toluene-d8	98		%	1	03/23/24	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Acenaphthene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Acenaphthylene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Anthracene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Benz(a)anthracene	700	250	ug/Kg	1	03/29/24	MR	SW8270E
Benzo(a)pyrene	670	250	ug/Kg	1	03/29/24	MR	SW8270E
Benzo(b)fluoranthene	760	250	ug/Kg	1	03/29/24	MR	SW8270E
Benzo(ghi)perylene	370	250	ug/Kg	1	03/29/24	MR	SW8270E
Benzo(k)fluoranthene	280	250	ug/Kg	1	03/29/24	MR	SW8270E
Chrysene	690	250	ug/Kg	1	03/29/24	MR	SW8270E
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Fluoranthene	1200	250	ug/Kg	1	03/29/24	MR	SW8270E
Fluorene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	380	250	ug/Kg	1	03/29/24	MR	SW8270E
Naphthalene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Phenanthrene	290	250	ug/Kg	1	03/29/24	MR	SW8270E
Pyrene	1100	250	ug/Kg	1	03/29/24	MR	SW8270E
QA/QC Surrogates							
% 2-Fluorobiphenyl	69		%	1	03/29/24	MR	30 - 130 %
% Nitrobenzene-d5	70		%	1	03/29/24	MR	30 - 130 %
% Terphenyl-d14	64		%	1	03/29/24	MR	30 - 130 %

Project ID: 105093
Client ID: TP-4 (8-9)

Phoenix I.D.: CQ34021

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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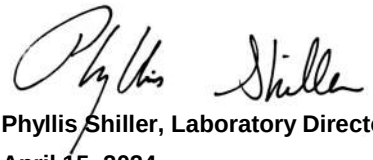

Phyllis Shiller, Laboratory Director

April 15, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 15, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	03/20/24	13:15
Location Code:	TIGHE-DAS	Received by:	SR1	03/22/24	16:30
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ34019
Phoenix ID: CQ34022

Project ID: 105093
Client ID: TP-5 (6-8)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		03/22/24	CV	SW846-%Solid
Extraction of ETPH	Completed				03/28/24	MQ/U	SW3546
Soil Extraction for SVOA PAH	Completed				03/28/24	C/A	SW3546
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	03/29/24	JRB	CTETPH
Identification	ND		mg/Kg	1	03/29/24	JRB	CTETPH
QA/QC Surrogates							
% COD (surr)	71		%	1	03/29/24	JRB	50 - 150 %
% Terphenyl (surr)	70		%	1	03/29/24	JRB	50 - 150 %
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	7.1	ug/Kg	1	03/23/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	7.1	ug/Kg	1	03/23/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	7.1	ug/Kg	1	03/23/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	7.1	ug/Kg	1	03/23/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	7.1	ug/Kg	1	03/23/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	7.1	ug/Kg	1	03/23/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	7.1	ug/Kg	1	03/23/24	JLI	SW8260D
Benzene	ND	7.1	ug/Kg	1	03/23/24	JLI	SW8260D
Chlorobenzene	ND	7.1	ug/Kg	1	03/23/24	JLI	SW8260D
Ethylbenzene	ND	7.1	ug/Kg	1	03/23/24	JLI	SW8260D
Isopropylbenzene	ND	7.1	ug/Kg	1	03/23/24	JLI	SW8260D
m&p-Xylene	ND	7.1	ug/Kg	1	03/23/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	7.1	ug/Kg	1	03/23/24	JLI	SW8260D
Naphthalene	ND	7.1	ug/Kg	1	03/23/24	JLI	SW8260D
n-Butylbenzene	ND	7.1	ug/Kg	1	03/23/24	JLI	SW8260D

Project ID: 105093
Client ID: TP-5 (6-8)

Phoenix I.D.: CQ34022

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	7.1	ug/Kg	1	03/23/24	JLI	SW8260D
o-Xylene	ND	7.1	ug/Kg	1	03/23/24	JLI	SW8260D
p-Isopropyltoluene	ND	7.1	ug/Kg	1	03/23/24	JLI	SW8260D
sec-Butylbenzene	ND	7.1	ug/Kg	1	03/23/24	JLI	SW8260D
Styrene	ND	7.1	ug/Kg	1	03/23/24	JLI	SW8260D
tert-Butylbenzene	ND	7.1	ug/Kg	1	03/23/24	JLI	SW8260D
Toluene	ND	7.1	ug/Kg	1	03/23/24	JLI	SW8260D
Total Xylenes	ND	7.1	ug/Kg	1	03/23/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	03/23/24	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	03/23/24	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	03/23/24	JLI	70 - 130 %
% Toluene-d8	98		%	1	03/23/24	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Acenaphthene	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Acenaphthylene	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Anthracene	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Benz(a)anthracene	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Benzo(a)pyrene	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Benzo(b)fluoranthene	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Benzo(ghi)perylene	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Benzo(k)fluoranthene	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Chrysene	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Fluoranthene	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Fluorene	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Naphthalene	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Phenanthrene	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
Pyrene	ND	260	ug/Kg	1	03/29/24	MR	SW8270E
QA/QC Surrogates							
% 2-Fluorobiphenyl	69		%	1	03/29/24	MR	30 - 130 %
% Nitrobenzene-d5	71		%	1	03/29/24	MR	30 - 130 %
% Terphenyl-d14	68		%	1	03/29/24	MR	30 - 130 %

Project ID: 105093
Client ID: TP-5 (6-8)

Phoenix I.D.: CQ34022

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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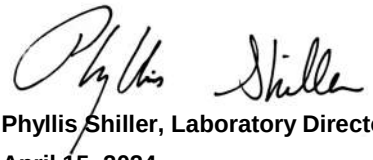

Phyllis Shiller, Laboratory Director

April 15, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 15, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	03/20/24	13:50
Location Code:	TIGHE-DAS	Received by:	SR1	03/22/24	16:30
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ34019
Phoenix ID: CQ34023

Project ID: 105093
Client ID: TP-6 (4`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		03/22/24	CV	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	03/22/24	ER/PK	SW846-Corr
pH at 25C - Soil	9.08	1.00	pH Units	1	03/22/24 23:41	ER/PK	SW846 9045D
Extraction of ETPH	Completed				03/28/24	MQ/U	SW3546
Soil Extraction for SVOA PAH	Completed				03/29/24	H/A	SW3546
SPLP Extraction for Organics	Completed				04/10/24	AL	SW1312
SPLP Semivolatiles (SIM) Ext.	Completed				04/11/24	Z/MQ	SW3510C/SW3520C
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	300	270	mg/Kg	5	03/29/24	JRB	CTETPH
Identification	**		mg/Kg	5	03/29/24	JRB	CTETPH
QA/QC Surrogates							
% COD (surr)	Interference		%	5	03/29/24	JRB	50 - 150 %
% Terphenyl (surr)	101		%	5	03/29/24	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	290	250	ug/Kg	1	03/30/24	MR	SW8270E
Acenaphthene	730	250	ug/Kg	1	03/30/24	MR	SW8270E
Acenaphthylene	ND	250	ug/Kg	1	03/30/24	MR	SW8270E
Anthracene	2400	250	ug/Kg	1	03/30/24	MR	SW8270E
Benz(a)anthracene	6000	250	ug/Kg	1	03/30/24	MR	SW8270E
Benzo(a)pyrene	5000	250	ug/Kg	1	03/30/24	MR	SW8270E
Benzo(b)fluoranthene	6200	250	ug/Kg	1	03/30/24	MR	SW8270E
Benzo(ghi)perylene	2400	250	ug/Kg	1	03/30/24	MR	SW8270E
Benzo(k)fluoranthene	2200	250	ug/Kg	1	03/30/24	MR	SW8270E
Chrysene	5700	250	ug/Kg	1	03/30/24	MR	SW8270E
Dibenz(a,h)anthracene	690	250	ug/Kg	1	03/30/24	MR	SW8270E

Project ID: 105093
Client ID: TP-6 (4`)

Phoenix I.D.: CQ34023

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Fluoranthene	14000	1300	ug/Kg	5	04/01/24	MR	SW8270E
Fluorene	730	250	ug/Kg	1	03/30/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	2800	250	ug/Kg	1	03/30/24	MR	SW8270E
Naphthalene	ND	250	ug/Kg	1	03/30/24	MR	SW8270E
Phenanthrene	11000	1300	ug/Kg	5	04/01/24	MR	SW8270E
Pyrene	6800	250	ug/Kg	1	03/30/24	MR	SW8270E
QA/QC Surrogates							
% 2-Fluorobiphenyl	73		%	1	03/30/24	MR	30 - 130 %
% Nitrobenzene-d5	76		%	1	03/30/24	MR	30 - 130 %
% Terphenyl-d14	54		%	1	03/30/24	MR	30 - 130 %
% 2-Fluorobiphenyl (5x)	83		%	5	04/01/24	MR	30 - 130 %
% Nitrobenzene-d5 (5x)	81		%	5	04/01/24	MR	30 - 130 %
% Terphenyl-d14 (5x)	78		%	5	04/01/24	MR	30 - 130 %

SPLP Semivolatiles by SIM

2-Methylnaphthalene	ND	0.47	ug/L	1	04/12/24	MR	SW8270E (SIM)
Acenaphthene	ND	0.47	ug/L	1	04/12/24	MR	SW8270E (SIM)
Acenaphthylene	ND	0.28	ug/L	1	04/12/24	MR	SW8270E (SIM)
Anthracene	ND	0.47	ug/L	1	04/12/24	MR	SW8270E (SIM)
Benz(a)anthracene	0.11	0.05	ug/L	1	04/12/24	MR	SW8270E (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	04/12/24	MR	SW8270E (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	04/12/24	MR	SW8270E (SIM)
Benzo(ghi)perylene	ND	0.45	ug/L	1	04/12/24	MR	SW8270E (SIM)
Benzo(k)fluoranthene	ND	0.28	ug/L	1	04/12/24	MR	SW8270E (SIM)
Chrysene	ND	0.47	ug/L	1	04/12/24	MR	SW8270E (SIM)
Dibenz(a,h)anthracene	ND	0.09	ug/L	1	04/12/24	MR	SW8270E (SIM)
Fluoranthene	0.52	0.47	ug/L	1	04/12/24	MR	SW8270E (SIM)
Fluorene	ND	0.47	ug/L	1	04/12/24	MR	SW8270E (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.09	ug/L	1	04/12/24	MR	SW8270E (SIM)
Naphthalene	ND	0.47	ug/L	1	04/12/24	MR	SW8270E (SIM)
Phenanthrene	1.3	0.06	ug/L	1	04/12/24	MR	SW8270E (SIM)
Pyrene	ND	0.47	ug/L	1	04/12/24	MR	SW8270E (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	47		%	1	04/12/24	MR	30 - 130 %
% Nitrobenzene-d5	39		%	1	04/12/24	MR	30 - 130 %
% Terphenyl-d14	69		%	1	04/12/24	MR	30 - 130 %

Project ID: 105093
Client ID: TP-6 (4`)

Phoenix I.D.: CQ34023

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Corrosivity is based solely on the pH analysis performed above.

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C19 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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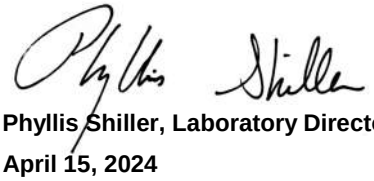

Phyllis Shiller, Laboratory Director

April 15, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 15, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	03/20/24	14:10
Location Code:	TIGHE-DAS	Received by:	SR1	03/22/24	16:30
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ34019
Phoenix ID: CQ34024

Project ID: 105093
Client ID: TP-7 (4)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		03/22/24	CV	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	03/22/24	ER/PK	SW846-Corr
pH at 25C - Soil	11.9	1.00	pH Units	1	03/22/24 23:41	ER/PK	SW846 9045D
Extraction of ETPH	Completed				03/28/24	MQ/U	SW3546
Soil Extraction for SVOA PAH	Completed				03/29/24	H/A	SW3546
SPLP Extraction for Organics	Completed				04/10/24	AL	SW1312
SPLP Semivolatiles (SIM) Ext.	Completed				04/11/24	Z/MQ	SW3510C/SW3520C
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	310	280	mg/Kg	5	03/29/24	JRB	CTETPH
Identification	**		mg/Kg	5	03/29/24	JRB	CTETPH
QA/QC Surrogates							
% COD (surr)	Interference		%	5	03/29/24	JRB	50 - 150 %
% Terphenyl (surr)	123		%	5	03/29/24	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	03/30/24	KCA	SW8270E
Acenaphthene	660	250	ug/Kg	1	03/30/24	KCA	SW8270E
Acenaphthylene	ND	250	ug/Kg	1	03/30/24	KCA	SW8270E
Anthracene	1900	250	ug/Kg	1	03/30/24	KCA	SW8270E
Benz(a)anthracene	3900	250	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(a)pyrene	3000	250	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(b)fluoranthene	3600	250	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(ghi)perylene	1300	250	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(k)fluoranthene	1300	250	ug/Kg	1	03/30/24	KCA	SW8270E
Chrysene	3800	250	ug/Kg	1	03/30/24	KCA	SW8270E
Dibenz(a,h)anthracene	370	250	ug/Kg	1	03/30/24	KCA	SW8270E

Project ID: 105093
Client ID: TP-7 (4)

Phoenix I.D.: CQ34024

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Fluoranthene	6200	250	ug/Kg	1	03/30/24	KCA	SW8270E
Fluorene	420	250	ug/Kg	1	03/30/24	KCA	SW8270E
Indeno(1,2,3-cd)pyrene	1400	250	ug/Kg	1	03/30/24	KCA	SW8270E
Naphthalene	270	250	ug/Kg	1	03/30/24	KCA	SW8270E
Phenanthrene	7100	250	ug/Kg	1	03/30/24	KCA	SW8270E
Pyrene	5100	250	ug/Kg	1	03/30/24	KCA	SW8270E
QA/QC Surrogates							
% 2-Fluorobiphenyl	69		%	1	03/30/24	KCA	30 - 130 %
% Nitrobenzene-d5	74		%	1	03/30/24	KCA	30 - 130 %
% Terphenyl-d14	52		%	1	03/30/24	KCA	30 - 130 %

SPLP Semivolatiles by SIM

2-Methylnaphthalene	ND	0.48	ug/L	1	04/12/24	MR	SW8270E (SIM)
Acenaphthene	1.2	0.48	ug/L	1	04/12/24	MR	SW8270E (SIM)
Acenaphthylene	ND	0.29	ug/L	1	04/12/24	MR	SW8270E (SIM)
Anthracene	0.64	0.48	ug/L	1	04/12/24	MR	SW8270E (SIM)
Benz(a)anthracene	0.14	0.05	ug/L	1	04/12/24	MR	SW8270E (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	04/12/24	MR	SW8270E (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	04/12/24	MR	SW8270E (SIM)
Benzo(ghi)perylene	ND	0.46	ug/L	1	04/12/24	MR	SW8270E (SIM)
Benzo(k)fluoranthene	ND	0.29	ug/L	1	04/12/24	MR	SW8270E (SIM)
Chrysene	ND	0.48	ug/L	1	04/12/24	MR	SW8270E (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	04/12/24	MR	SW8270E (SIM)
Fluoranthene	1.5	0.48	ug/L	1	04/12/24	MR	SW8270E (SIM)
Fluorene	ND	0.48	ug/L	1	04/12/24	MR	SW8270E (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	04/12/24	MR	SW8270E (SIM)
Naphthalene	ND	0.48	ug/L	1	04/12/24	MR	SW8270E (SIM)
Phenanthrene	4.3	0.06	ug/L	1	04/12/24	MR	SW8270E (SIM)
Pyrene	1.1	0.48	ug/L	1	04/12/24	MR	SW8270E (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	57		%	1	04/12/24	MR	30 - 130 %
% Nitrobenzene-d5	59		%	1	04/12/24	MR	30 - 130 %
% Terphenyl-d14	63		%	1	04/12/24	MR	30 - 130 %

Project ID: 105093
Client ID: TP-7 (4)

Phoenix I.D.: CQ34024

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Corrosivity is based solely on the pH analysis performed above.

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C19 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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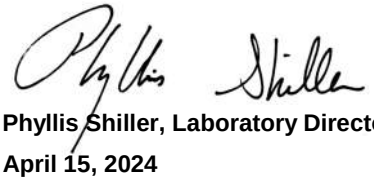

Phyllis Shiller, Laboratory Director
April 15, 2024
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 15, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	03/21/24	8:00
Location Code:	TIGHE-DAS	Received by:	SR1	03/22/24	16:30
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ34019
Phoenix ID: CQ34025

Project ID: 105093
Client ID: TP-8 (6)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		03/22/24	CV	SW846-%Solid
Extraction of ETPH	Completed				03/28/24	MQ/U	SW3546
Extraction for PCB	Completed				03/25/24	J/AC1	SW3540C
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	390	270	mg/Kg	5	03/29/24	JRB	CTETPH
Identification	**		mg/Kg	5	03/29/24	JRB	CTETPH
QA/QC Surrogates							
% COD (surr)	Interference		%	5	03/29/24	JRB	50 - 150 %
% Terphenyl (surr)	101		%	5	03/29/24	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	03/26/24	SC	SW8082A
Total PCBs	ND	350	ug/Kg	10	03/26/24	SC	SW8082A
QA/QC Surrogates							
% DCBP	111		%	10	03/26/24	SC	30 - 150 %
% DCBP (Confirmation)	90		%	10	03/26/24	SC	30 - 150 %
% TCMX	87		%	10	03/26/24	SC	30 - 150 %
% TCMX (Confirmation)	84		%	10	03/26/24	SC	30 - 150 %

Ver 2

Project ID: 105093
Client ID: TP-8 (6)

Phoenix I.D.: CQ34025

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C19 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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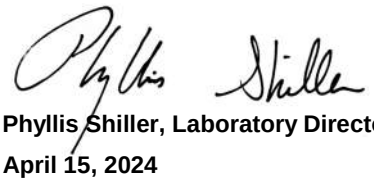

Phyllis Shiller, Laboratory Director
April 15, 2024
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 15, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	03/21/24	7:20
Location Code:	TIGHE-DAS	Received by:	SR1	03/22/24	16:30
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ34019
Phoenix ID: CQ34026

Project ID: 105093
Client ID: TP-9 (4`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	03/26/24	TH	SW6010D
Arsenic	3.91	0.72	mg/Kg	1	03/26/24	TH	SW6010D
Barium	28.2	0.36	mg/Kg	1	03/26/24	TH	SW6010D
Beryllium	< 0.29	0.29	mg/Kg	1	03/26/24	TH	SW6010D
Cadmium	0.82	0.36	mg/Kg	1	03/26/24	TH	SW6010D
Chromium	14.4	0.36	mg/Kg	1	03/26/24	TH	SW6010D
Copper	82.3	0.7	mg/kg	1	03/26/24	TH	SW6010D
Mercury	0.06	0.03	mg/Kg	2	03/25/24	GW	SW7471B
Nickel	15.7	0.36	mg/Kg	1	03/26/24	TH	SW6010D
Lead	29.1	0.36	mg/Kg	1	03/26/24	TH	SW6010D
Antimony	< 3.6	3.6	mg/Kg	1	03/26/24	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	03/26/24	TH	SW6010D
Thallium	< 3.2	3.2	mg/Kg	1	03/26/24	TH	SW6010D
Vanadium	12.3	0.36	mg/Kg	1	03/26/24	TH	SW6010D
Zinc	58.9	0.7	mg/Kg	1	03/26/24	TH	SW6010D
Percent Solid	90		%		03/22/24	CV	SW846-%Solid
Field Extraction	Completed				03/21/24		SW5035A
Mercury Digestion	Completed				03/25/24	HL/HL	SW7471B
Extraction of ETPH	Completed				03/28/24	MQ/U	SW3546
Soil Extraction for SVOA	Completed				03/28/24	C/A	SW3546
Extraction for PCB	Completed				03/25/24	J/AC1	SW3540C
Total Metals Digest	Completed				03/22/24	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	03/29/24	JRB	CTETPH
Identification	ND		mg/Kg	1	03/29/24	JRB	CTETPH

QA/QC Surrogates

Project ID: 105093
Client ID: TP-9 (4`)

Phoenix I.D.: CQ34026

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% COD (surr)	99		%	1	03/29/24	JRB	50 - 150 %
% Terphenyl (surr)	92		%	1	03/29/24	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	03/26/24	SC	SW8082A
Total PCBs	ND	370	ug/Kg	10	03/26/24	SC	SW8082A
QA/QC Surrogates							
% DCBP	105		%	10	03/26/24	SC	30 - 150 %
% DCBP (Confirmation)	95		%	10	03/26/24	SC	30 - 150 %
% TCMX	96		%	10	03/26/24	SC	30 - 150 %
% TCMX (Confirmation)	87		%	10	03/26/24	SC	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,1,1-Trichloroethane	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	3.8	ug/Kg	1	03/23/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,1-Dichloroethane	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,1-Dichloroethene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,1-Dichloropropene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,2,3-Trichloropropane	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	03/23/24	JLI	SW8260D
1,2-Dibromoethane	ND	0.63	ug/Kg	1	03/23/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,2-Dichloroethane	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,2-Dichloropropane	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,3-Dichloropropane	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
2,2-Dichloropropane	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
2-Chlorotoluene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
2-Hexanone	ND	31	ug/Kg	1	03/23/24	JLI	SW8260D
2-Isopropyltoluene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
4-Chlorotoluene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	31	ug/Kg	1	03/23/24	JLI	SW8260D
Acetone	ND	310	ug/Kg	1	03/23/24	JLI	SW8260D
Acrylonitrile	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Benzene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D

Project ID: 105093
Client ID: TP-9 (4`)

Phoenix I.D.: CQ34026

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromobenzene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Bromochloromethane	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Bromodichloromethane	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Bromoform	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Bromomethane	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Carbon Disulfide	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Carbon tetrachloride	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Chlorobenzene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Chloroethane	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Chloroform	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Chloromethane	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
cis-1,3-Dichloropropene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Dibromochloromethane	ND	3.8	ug/Kg	1	03/23/24	JLI	SW8260D
Dibromomethane	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Dichlorodifluoromethane	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Ethylbenzene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Hexachlorobutadiene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Isopropylbenzene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
m&p-Xylene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Methyl Ethyl Ketone	ND	38	ug/Kg	1	03/23/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	03/23/24	JLI	SW8260D
Methylene chloride	ND	13	ug/Kg	1	03/23/24	JLI	SW8260D
Naphthalene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
n-Butylbenzene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
n-Propylbenzene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
o-Xylene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
p-Isopropyltoluene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
sec-Butylbenzene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Styrene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
tert-Butylbenzene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Tetrachloroethene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	03/23/24	JLI	SW8260D
Toluene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Total Xylenes	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	03/23/24	JLI	SW8260D
Trichloroethene	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Trichlorofluoromethane	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	13	ug/Kg	1	03/23/24	JLI	SW8260D
Vinyl chloride	ND	6.3	ug/Kg	1	03/23/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	03/23/24	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	03/23/24	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	03/23/24	JLI	70 - 130 %
% Toluene-d8	98		%	1	03/23/24	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	94	ug/kg	1	03/23/24	JLI	SW8260D

Ver 2

Project ID: 105093
Client ID: TP-9 (4`)

Phoenix I.D.: CQ34026

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	03/28/24	MR	SW8270E
1,2,4-Trichlorobenzene	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
1,2-Dichlorobenzene	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	03/28/24	MR	SW8270E
1,3-Dichlorobenzene	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
1,4-Dichlorobenzene	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	03/28/24	MR	SW8270E
2,4-Dichlorophenol	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
2,4-Dimethylphenol	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	03/28/24	MR	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	03/28/24	MR	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	03/28/24	MR	SW8270E
2-Chloronaphthalene	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
2-Chlorophenol	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
2-Methylnaphthalene	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	03/28/24	MR	SW8270E
2-Nitrophenol	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	03/28/24	MR	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	03/28/24	MR	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	03/28/24	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	03/28/24	MR	SW8270E
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	03/28/24	MR	SW8270E
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	03/28/24	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	03/28/24	MR	SW8270E
4-Nitrophenol	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
Acenaphthene	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
Acenaphthylene	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
Acetophenone	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
Aniline	ND	200	ug/Kg	1	03/28/24	MR	SW8270E
Anthracene	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
Benz(a)anthracene	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
Benzidine	ND	200	ug/Kg	1	03/28/24	MR	SW8270E
Benzo(a)pyrene	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
Benzo(b)fluoranthene	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
Benzo(ghi)perylene	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
Benzo(k)fluoranthene	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
Benzoic acid	ND	730	ug/Kg	1	03/28/24	MR	SW8270E
Benzyl butyl phthalate	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	03/28/24	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	370	ug/Kg	1	03/28/24	MR	SW8270E
Carbazole	ND	200	ug/Kg	1	03/28/24	MR	SW8270E
Chrysene	ND	260	ug/Kg	1	03/28/24	MR	SW8270E

Project ID: 105093
Client ID: TP-9 (4`)

Phoenix I.D.: CQ34026

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	03/28/24	MR	SW8270E
Diethyl phthalate	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
Dimethylphthalate	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
Di-n-butylphthalate	ND	370	ug/Kg	1	03/28/24	MR	SW8270E
Di-n-octylphthalate	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
Fluoranthene	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
Fluorene	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
Hexachlorobenzene	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	03/28/24	MR	SW8270E
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
Hexachloroethane	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
Isophorone	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
Naphthalene	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
Nitrobenzene	ND	200	ug/Kg	1	03/28/24	MR	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	03/28/24	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	03/28/24	MR	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	03/28/24	MR	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	03/28/24	MR	SW8270E
Pentachlorophenol	ND	370	ug/Kg	1	03/28/24	MR	SW8270E
Phenanthrene	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
Phenol	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
Pyrene	ND	260	ug/Kg	1	03/28/24	MR	SW8270E
Pyridine	ND	200	ug/Kg	1	03/28/24	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	102		%	1	03/28/24	MR	30 - 130 %
% 2-Fluorobiphenyl	75		%	1	03/28/24	MR	30 - 130 %
% 2-Fluorophenol	73		%	1	03/28/24	MR	30 - 130 %
% Nitrobenzene-d5	75		%	1	03/28/24	MR	30 - 130 %
% Phenol-d5	76		%	1	03/28/24	MR	30 - 130 %
% Terphenyl-d14	80		%	1	03/28/24	MR	30 - 130 %

Project ID: 105093
Client ID: TP-9 (4`)

Phoenix I.D.: CQ34026

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

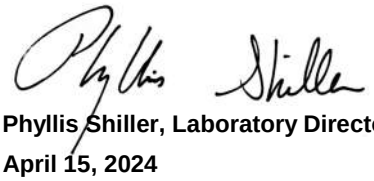
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

April 15, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 15, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	03/21/24	7:40
Location Code:	TIGHE-DAS	Received by:	SR1	03/22/24	16:30
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ34019
Phoenix ID: CQ34027

Project ID: 105093
Client ID: TP-10 (4`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.32	0.32	mg/Kg	1	03/26/24	TH	SW6010D
Arsenic	1.77	0.65	mg/Kg	1	03/26/24	TH	SW6010D
Barium	35.5	0.32	mg/Kg	1	03/26/24	TH	SW6010D
Beryllium	< 0.26	0.26	mg/Kg	1	03/26/24	TH	SW6010D
Cadmium	0.82	0.32	mg/Kg	1	03/26/24	TH	SW6010D
Chromium	11.1	0.32	mg/Kg	1	03/26/24	TH	SW6010D
Copper	66.2	0.6	mg/kg	1	03/26/24	TH	SW6010D
Mercury	0.05	0.03	mg/Kg	2	03/25/24	GW	SW7471B
Nickel	12.3	0.32	mg/Kg	1	03/26/24	TH	SW6010D
Lead	44.4	0.32	mg/Kg	1	03/26/24	TH	SW6010D
Antimony	< 3.2	3.2	mg/Kg	1	03/26/24	TH	SW6010D
Selenium	< 1.3	1.3	mg/Kg	1	03/26/24	TH	SW6010D
Thallium	< 2.9	2.9	mg/Kg	1	03/26/24	TH	SW6010D
Vanadium	12.8	0.32	mg/Kg	1	03/26/24	TH	SW6010D
Zinc	70.0	0.6	mg/Kg	1	03/26/24	TH	SW6010D
Percent Solid	92		%		03/22/24	CV	SW846-%Solid
Field Extraction	Completed				03/21/24		SW5035A
Mercury Digestion	Completed				03/25/24	HL/HL	SW7471B
Extraction of ETPH	Completed				03/28/24	MQ/U	SW3546
Soil Extraction for SVOA	Completed				03/28/24	C/A	SW3546
Extraction for PCB	Completed				03/25/24	J/AC1	SW3540C
Total Metals Digest	Completed				03/22/24	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	53	mg/Kg	1	03/29/24	JRB	CTETPH
Identification	ND		mg/Kg	1	03/29/24	JRB	CTETPH

QA/QC Surrogates

Project ID: 105093
Client ID: TP-10 (4`)

Phoenix I.D.: CQ34027

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% COD (surr)	62		%	1	03/29/24	JRB	50 - 150 %
% Terphenyl (surr)	73		%	1	03/29/24	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	03/26/24	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	03/26/24	SC	SW8082A
Total PCBs	ND	360	ug/Kg	10	03/26/24	SC	SW8082A
QA/QC Surrogates							
% DCBP	106		%	10	03/26/24	SC	30 - 150 %
% DCBP (Confirmation)	105		%	10	03/26/24	SC	30 - 150 %
% TCMX	95		%	10	03/26/24	SC	30 - 150 %
% TCMX (Confirmation)	90		%	10	03/26/24	SC	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,1,1-Trichloroethane	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	1	03/23/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,1-Dichloroethane	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,1-Dichloroethene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,1-Dichloropropene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,2,3-Trichloropropane	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	03/23/24	JLI	SW8260D
1,2-Dibromoethane	ND	0.53	ug/Kg	1	03/23/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,2-Dichloroethane	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,2-Dichloropropane	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,3-Dichloropropane	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
2,2-Dichloropropane	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
2-Chlorotoluene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
2-Hexanone	ND	27	ug/Kg	1	03/23/24	JLI	SW8260D
2-Isopropyltoluene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
4-Chlorotoluene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	27	ug/Kg	1	03/23/24	JLI	SW8260D
Acetone	ND	270	ug/Kg	1	03/23/24	JLI	SW8260D
Acrylonitrile	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
Benzene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D

Project ID: 105093
Client ID: TP-10 (4`)

Phoenix I.D.: CQ34027

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromobenzene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
Bromochloromethane	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
Bromodichloromethane	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
Bromoform	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
Bromomethane	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
Carbon Disulfide	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
Carbon tetrachloride	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
Chlorobenzene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
Chloroethane	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
Chloroform	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
Chloromethane	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
cis-1,3-Dichloropropene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
Dibromochloromethane	ND	3.2	ug/Kg	1	03/23/24	JLI	SW8260D
Dibromomethane	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
Dichlorodifluoromethane	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
Ethylbenzene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
Hexachlorobutadiene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
Isopropylbenzene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
m&p-Xylene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
Methyl Ethyl Ketone	ND	32	ug/Kg	1	03/23/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	03/23/24	JLI	SW8260D
Methylene chloride	ND	11	ug/Kg	1	03/23/24	JLI	SW8260D
Naphthalene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
n-Butylbenzene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
n-Propylbenzene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
o-Xylene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
p-Isopropyltoluene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
sec-Butylbenzene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
Styrene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
tert-Butylbenzene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
Tetrachloroethene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	03/23/24	JLI	SW8260D
Toluene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
Total Xylenes	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	03/23/24	JLI	SW8260D
Trichloroethene	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
Trichlorofluoromethane	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	11	ug/Kg	1	03/23/24	JLI	SW8260D
Vinyl chloride	ND	5.3	ug/Kg	1	03/23/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	03/23/24	JLI	70 - 130 %
% Bromofluorobenzene	94		%	1	03/23/24	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	03/23/24	JLI	70 - 130 %
% Toluene-d8	97		%	1	03/23/24	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	80	ug/kg	1	03/23/24	JLI	SW8260D

Ver 2

Project ID: 105093
Client ID: TP-10 (4`)

Phoenix I.D.: CQ34027

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	03/29/24	MR	SW8270E
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
1,2-Dichlorobenzene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
1,3-Dichlorobenzene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
1,4-Dichlorobenzene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
2,4-Dichlorophenol	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
2,4-Dimethylphenol	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	03/29/24	MR	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
2-Chloronaphthalene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
2-Chlorophenol	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
2-Methylnaphthalene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	03/29/24	MR	SW8270E
2-Nitrophenol	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	350	ug/Kg	1	03/29/24	MR	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	03/29/24	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	03/29/24	MR	SW8270E
4-Bromophenyl phenyl ether	ND	350	ug/Kg	1	03/29/24	MR	SW8270E
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	03/29/24	MR	SW8270E
4-Nitrophenol	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Acenaphthene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Acenaphthylene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Acetophenone	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Aniline	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
Anthracene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Benz(a)anthracene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Benzidine	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
Benzo(a)pyrene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Benzo(b)fluoranthene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Benzo(ghi)perylene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Benzo(k)fluoranthene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Benzoic acid	ND	710	ug/Kg	1	03/29/24	MR	SW8270E
Benzyl butyl phthalate	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Bis(2-chloroethyl)ether	ND	350	ug/Kg	1	03/29/24	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	350	ug/Kg	1	03/29/24	MR	SW8270E
Carbazole	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
Chrysene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E

Project ID: 105093
Client ID: TP-10 (4`)

Phoenix I.D.: CQ34027

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
Diethyl phthalate	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Dimethylphthalate	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Di-n-butylphthalate	ND	350	ug/Kg	1	03/29/24	MR	SW8270E
Di-n-octylphthalate	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Fluoranthene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Fluorene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Hexachlorobenzene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Hexachloroethane	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Isophorone	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Naphthalene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Nitrobenzene	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	03/29/24	MR	SW8270E
Pentachlorophenol	ND	350	ug/Kg	1	03/29/24	MR	SW8270E
Phenanthrene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Phenol	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Pyrene	ND	250	ug/Kg	1	03/29/24	MR	SW8270E
Pyridine	ND	200	ug/Kg	1	03/29/24	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	90		%	1	03/29/24	MR	30 - 130 %
% 2-Fluorobiphenyl	66		%	1	03/29/24	MR	30 - 130 %
% 2-Fluorophenol	64		%	1	03/29/24	MR	30 - 130 %
% Nitrobenzene-d5	67		%	1	03/29/24	MR	30 - 130 %
% Phenol-d5	68		%	1	03/29/24	MR	30 - 130 %
% Terphenyl-d14	67		%	1	03/29/24	MR	30 - 130 %

Project ID: 105093
Client ID: TP-10 (4`)

Phoenix I.D.: CQ34027

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

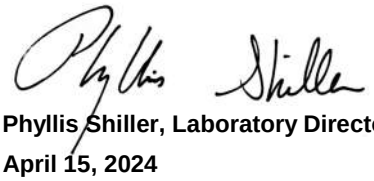
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

April 15, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 15, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	03/20/24	14:45
Location Code:	TIGHE-DAS	Received by:	SR1	03/22/24	16:30
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ34019
Phoenix ID: CQ34029

Project ID: 105093
Client ID: TP-11 (6-8)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	82		%		03/22/24	CV	SW846-%Solid
Extraction of ETPH	Completed				03/28/24	MQ/U	SW3546
Soil Extraction for SVOA PAH	Completed				03/29/24	H/A	SW3546
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	60	mg/Kg	1	03/29/24	JRB	CTETPH
Identification	ND		mg/Kg	1	03/29/24	JRB	CTETPH
QA/QC Surrogates							
% COD (surr)	54		%	1	03/29/24	JRB	50 - 150 %
% Terphenyl (surr)	86		%	1	03/29/24	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	280	ug/Kg	1	03/30/24	MR	SW8270E
Acenaphthene	ND	280	ug/Kg	1	03/30/24	MR	SW8270E
Acenaphthylene	ND	280	ug/Kg	1	03/30/24	MR	SW8270E
Anthracene	ND	280	ug/Kg	1	03/30/24	MR	SW8270E
Benz(a)anthracene	700	280	ug/Kg	1	03/30/24	MR	SW8270E
Benzo(a)pyrene	770	280	ug/Kg	1	03/30/24	MR	SW8270E
Benzo(b)fluoranthene	1000	280	ug/Kg	1	03/30/24	MR	SW8270E
Benzo(ghi)perylene	500	280	ug/Kg	1	03/30/24	MR	SW8270E
Benzo(k)fluoranthene	380	280	ug/Kg	1	03/30/24	MR	SW8270E
Chrysene	920	280	ug/Kg	1	03/30/24	MR	SW8270E
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	03/30/24	MR	SW8270E
Fluoranthene	1200	280	ug/Kg	1	03/30/24	MR	SW8270E
Fluorene	ND	280	ug/Kg	1	03/30/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	510	280	ug/Kg	1	03/30/24	MR	SW8270E
Naphthalene	ND	280	ug/Kg	1	03/30/24	MR	SW8270E

Project ID: 105093
Client ID: TP-11 (6-8)

Phoenix I.D.: CQ34029

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Phenanthrene	730	280	ug/Kg	1	03/30/24	MR	SW8270E
Pyrene	1100	280	ug/Kg	1	03/30/24	MR	SW8270E
QA/QC Surrogates							
% 2-Fluorobiphenyl	68		%	1	03/30/24	MR	30 - 130 %
% Nitrobenzene-d5	69		%	1	03/30/24	MR	30 - 130 %
% Terphenyl-d14	56		%	1	03/30/24	MR	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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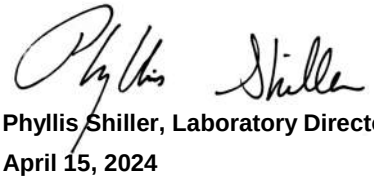

Phyllis Shiller, Laboratory Director

April 15, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 15, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	03/20/24	14:50
Location Code:	TIGHE-DAS	Received by:	SR1	03/22/24	16:30
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ34019
Phoenix ID: CQ34030

Project ID: 105093
Client ID: TP-11 (8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		03/22/24	CV	SW846-%Solid
Extraction of ETPH	Completed				03/28/24	MQ/U	SW3546
Soil Extraction for SVOA PAH	Completed				03/29/24	H/A	SW3546
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	03/29/24	JRB	CTETPH
Identification	ND		mg/Kg	1	03/29/24	JRB	CTETPH
QA/QC Surrogates							
% COD (surr)	76		%	1	03/29/24	JRB	50 - 150 %
% Terphenyl (surr)	84		%	1	03/29/24	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Acenaphthene	560	260	ug/Kg	1	03/30/24	KCA	SW8270E
Acenaphthylene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Anthracene	680	260	ug/Kg	1	03/30/24	KCA	SW8270E
Benz(a)anthracene	1700	260	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(a)pyrene	1600	260	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(b)fluoranthene	1700	260	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(ghi)perylene	870	260	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(k)fluoranthene	600	260	ug/Kg	1	03/30/24	KCA	SW8270E
Chrysene	1800	260	ug/Kg	1	03/30/24	KCA	SW8270E
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Fluoranthene	3200	260	ug/Kg	1	03/30/24	KCA	SW8270E
Fluorene	350	260	ug/Kg	1	03/30/24	KCA	SW8270E
Indeno(1,2,3-cd)pyrene	950	260	ug/Kg	1	03/30/24	KCA	SW8270E
Naphthalene	270	260	ug/Kg	1	03/30/24	KCA	SW8270E

Project ID: 105093
Client ID: TP-11 (8-10)

Phoenix I.D.: CQ34030

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Phenanthrene	3200	260	ug/Kg	1	03/30/24	KCA	SW8270E
Pyrene	2900	260	ug/Kg	1	03/30/24	KCA	SW8270E
QA/QC Surrogates							
% 2-Fluorobiphenyl	68		%	1	03/30/24	KCA	30 - 130 %
% Nitrobenzene-d5	68		%	1	03/30/24	KCA	30 - 130 %
% Terphenyl-d14	58		%	1	03/30/24	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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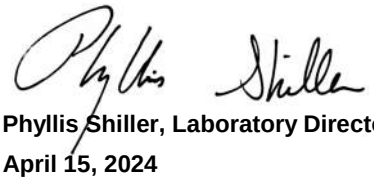

Phyllis Shiller, Laboratory Director

April 15, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

QA/QC Report

April 15, 2024

QA/QC Data

SDG I.D.: GCQ34019

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 723692 (mg/kg), QC Sample No: CQ33904 2X (CQ34019, CQ34020, CQ34026, CQ34027)														
Mercury - Soil	BRL	0.03	0.06	0.04	NC	95.2	108	12.6	>125	92.8	NC	70 - 130	30	m
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.														
QA/QC Batch 726356 (mg/L), QC Sample No: CQ33408 (CQ34019, CQ34020)														
ICP Metals - SPLP Extraction														
Antimony	BRL	0.005	<0.005	<0.005	NC	98.1	97.9	0.2	97.7			80 - 120	20	
Barium	BRL	0.010	0.037	0.035	NC	94.8	97.2	2.5	87.4			80 - 120	20	
Beryllium	BRL	0.001	<0.001	<0.001	NC	96.6	95.6	1.0	95.7			80 - 120	20	
Cadmium	BRL	0.005	<0.005	<0.005	NC	97.5	95.6	2.0	96.3			80 - 120	20	
Chromium	BRL	0.010	<0.010	<0.010	NC	95.3	94.5	0.8	94.5			80 - 120	20	
Copper	BRL	0.010	<0.010	<0.010	NC	97.5	96.7	0.8	96.8			80 - 120	20	
Lead	BRL	0.010	<0.010	<0.010	NC	94.0	93.1	1.0	93.0			80 - 120	20	
Nickel	BRL	0.010	<0.010	<0.010	NC	93.2	93.1	0.1	93.3			80 - 120	20	
Vanadium	BRL	0.010	<0.010	<0.010	NC	95.1	94.6	0.5	94.7			80 - 120	20	
Zinc	BRL	0.010	<0.010	<0.010	NC	94.8	93.5	1.4	94.0			80 - 120	20	
Comment:														
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.														
QA/QC Batch 723560 (mg/kg), QC Sample No: CQ33969 (CQ34019, CQ34020, CQ34026, CQ34027)														
ICP Metals - Soil														
Antimony	BRL	3.3	6.8	4.8	NC	108	103	4.7	93.0			75 - 125	35	
Arsenic	BRL	0.67	8.00	9.72	19.4	99.7	92.6	7.4	92.0			75 - 125	35	
Barium	BRL	0.33	238	326	31.2	110	108	1.8	93.8			75 - 125	35	
Beryllium	BRL	0.27	0.39	0.41	NC	109	99.8	8.8	101			75 - 125	35	
Cadmium	BRL	0.33	3.04	3.07	1.00	111	104	6.5	101			75 - 125	35	
Chromium	BRL	0.33	33.7	117	111	114	107	6.3	113			75 - 125	35	r
Copper	BRL	0.67	749	690	8.20	107	101	5.8	NC			75 - 125	35	
Lead	BRL	0.33	674	1280	62.0	109	101	7.6	89.3			75 - 125	35	r
Nickel	BRL	0.33	20.1	22.6	11.7	109	103	5.7	107			75 - 125	35	
Selenium	BRL	1.3	<1.6	<1.5	NC	96.4	91.9	4.8	81.2			75 - 125	35	
Silver	BRL	0.33	0.94	0.52	NC	110	104	5.6	99.3			75 - 125	35	
Thallium	BRL	3.0	<3.5	<3.3	NC	110	101	8.5	96.8			75 - 125	35	
Vanadium	BRL	0.33	22.1	28.6	25.6	108	102	5.7	108			75 - 125	35	
Zinc	BRL	0.67	635	591	7.20	103	97.1	5.9	80.3			75 - 125	35	
Comment:														
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.														

m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

QA/QC Report

April 15, 2024

QA/QC Data

SDG I.D.: GCQ34019

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 723610 (PH), QC Sample No: CQ33649 (CQ34023, CQ34024)													
pH			6.61	6.62	0.20	101						85 - 115	20

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QA/QC Report

April 15, 2024

QA/QC Data

SDG I.D.: GCQ34019

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 724314 (mg/Kg), QC Sample No: CQ34010 (CQ34019, CQ34020, CQ34021, CQ34022, CQ34023, CQ34024, CQ34025, CQ34026, CQ34027, CQ34029, CQ34030)											
TPH by GC (Extractable Products) - Soil											
Ext. Petroleum H.C. (C9-C36)	ND	50	103	94	9.1	94	89	5.5	60 - 120	30	
% COD (surr)	93	%	105	76	32.0	102	111	8.5	50 - 150	30	r
% Terphenyl (surr)	84	%	68	64	6.1	63	52	19.1	50 - 150	30	
Comment:											
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.											
QA/QC Batch 723768 (ug/Kg), QC Sample No: CQ34019 10X (CQ34019, CQ34020, CQ34025, CQ34026, CQ34027)											
Polychlorinated Biphenyls - Soil											
PCB-1016	ND	170	107	105	1.9	102	109	6.6	40 - 140	30	
PCB-1221	ND	170							40 - 140	30	
PCB-1232	ND	170							40 - 140	30	
PCB-1242	ND	170							40 - 140	30	
PCB-1248	ND	170							40 - 140	30	
PCB-1254	ND	170							40 - 140	30	
PCB-1260	ND	170	115	105	9.1	100	114	13.1	40 - 140	30	
PCB-1262	ND	170							40 - 140	30	
PCB-1268	ND	170							40 - 140	30	
% DCBP (Surrogate Rec)	118	%	116	107	8.1	99	107	7.8	30 - 150	30	
% DCBP (Surrogate Rec) (Confirm	106	%	110	108	1.8	100	109	8.6	30 - 150	30	
% TCMX (Surrogate Rec)	103	%	105	100	4.9	97	101	4.0	30 - 150	30	
% TCMX (Surrogate Rec) (Confirm	98	%	102	102	0.0	97	100	3.0	30 - 150	30	
QA/QC Batch 724373 (ug/kg), QC Sample No: CQ34007 (CQ34019, CQ34020, CQ34026, CQ34027)											
Semivolatiles - Soil											
1,2,4,5-Tetrachlorobenzene	ND	230	62	62	0.0	70	68	2.9	40 - 140	30	
1,2,4-Trichlorobenzene	ND	230	59	62	5.0	68	67	1.5	40 - 140	30	
1,2-Dichlorobenzene	ND	180	56	60	6.9	65	65	0.0	40 - 140	30	
1,2-Diphenylhydrazine	ND	230	67	66	1.5	75	71	5.5	40 - 140	30	
1,3-Dichlorobenzene	ND	230	54	58	7.1	63	62	1.6	40 - 140	30	
1,4-Dichlorobenzene	ND	230	53	56	5.5	61	61	0.0	40 - 140	30	
2,2'-Oxybis(1-Chloropropane)	ND	230	51	53	3.8	59	58	1.7	40 - 140	30	
2,4,5-Trichlorophenol	ND	230	80	81	1.2	90	86	4.5	40 - 140	30	
2,4,6-Trichlorophenol	ND	130	77	78	1.3	92	89	3.3	30 - 130	30	
2,4-Dichlorophenol	ND	130	77	76	1.3	87	83	4.7	30 - 130	30	
2,4-Dimethylphenol	ND	230	74	73	1.4	85	81	4.8	30 - 130	30	
2,4-Dinitrophenol	ND	230	79	96	19.4	104	100	3.9	30 - 130	30	
2,4-Dinitrotoluene	ND	130	83	84	1.2	96	92	4.3	30 - 130	30	
2,6-Dinitrotoluene	ND	130	80	82	2.5	94	90	4.3	40 - 140	30	
2-Chloronaphthalene	ND	230	67	68	1.5	76	73	4.0	40 - 140	30	
2-Chlorophenol	ND	230	75	74	1.3	83	80	3.7	30 - 130	30	

QA/QC Data

SDG I.D.: GCQ34019

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
2-Methylnaphthalene	ND	230	69	69	0.0	78	75	3.9	40 - 140	30	
2-Methylphenol (o-cresol)	ND	230	71	68	4.3	80	76	5.1	40 - 140	30	
2-Nitroaniline	ND	330	134	137	2.2	154	145	6.0	40 - 140	30	m
2-Nitrophenol	ND	230	75	81	7.7	92	90	2.2	40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	77	74	4.0	87	82	5.9	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	95	102	7.1	114	110	3.6	40 - 140	30	
3-Nitroaniline	ND	330	105	107	1.9	121	114	6.0	40 - 140	30	
4,6-Dinitro-2-methylphenol	ND	230	92	97	5.3	111	105	5.6	30 - 130	30	
4-Bromophenyl phenyl ether	ND	230	72	71	1.4	80	78	2.5	40 - 140	30	
4-Chloro-3-methylphenol	ND	230	83	81	2.4	94	89	5.5	30 - 130	30	
4-Chloroaniline	ND	230	73	72	1.4	79	75	5.2	40 - 140	30	
4-Chlorophenyl phenyl ether	ND	230	68	69	1.5	78	74	5.3	40 - 140	30	
4-Nitroaniline	ND	230	77	79	2.6	90	85	5.7	40 - 140	30	
4-Nitrophenol	ND	230	95	100	5.1	113	102	10.2	30 - 130	30	
Acenaphthene	ND	230	65	66	1.5	74	71	4.1	30 - 130	30	
Acenaphthylene	ND	130	60	60	0.0	69	65	6.0	40 - 140	30	
Acetophenone	ND	230	64	64	0.0	71	69	2.9	40 - 140	30	
Aniline	ND	330	70	67	4.4	71	70	1.4	40 - 140	30	
Anthracene	ND	230	70	70	0.0	79	76	3.9	40 - 140	30	
Benz(a)anthracene	ND	230	73	73	0.0	88	82	7.1	40 - 140	30	
Benzidine	ND	330	87	77	12.2	89	90	1.1	40 - 140	30	
Benzo(a)pyrene	ND	130	82	83	1.2	94	90	4.3	40 - 140	30	
Benzo(b)fluoranthene	ND	160	75	75	0.0	85	81	4.8	40 - 140	30	
Benzo(ghi)perylene	ND	230	72	74	2.7	82	80	2.5	40 - 140	30	
Benzo(k)fluoranthene	ND	230	75	75	0.0	85	81	4.8	40 - 140	30	
Benzoic Acid	ND	670	81	85	4.8	78	79	1.3	30 - 130	30	
Benzyl butyl phthalate	ND	230	79	79	0.0	90	85	5.7	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	67	67	0.0	73	71	2.8	40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	62	63	1.6	70	67	4.4	40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	76	76	0.0	87	82	5.9	40 - 140	30	
Carbazole	ND	230	73	73	0.0	82	79	3.7	40 - 140	30	
Chrysene	ND	230	72	72	0.0	86	81	6.0	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	71	73	2.8	79	77	2.6	40 - 140	30	
Dibenzofuran	ND	230	67	68	1.5	76	73	4.0	40 - 140	30	
Diethyl phthalate	ND	230	73	74	1.4	83	79	4.9	40 - 140	30	
Dimethylphthalate	ND	230	74	74	0.0	82	78	5.0	40 - 140	30	
Di-n-butylphthalate	ND	670	81	81	0.0	91	87	4.5	40 - 140	30	
Di-n-octylphthalate	ND	230	80	80	0.0	93	88	5.5	40 - 140	30	
Fluoranthene	ND	230	72	73	1.4	84	78	7.4	40 - 140	30	
Fluorene	ND	230	68	68	0.0	76	73	4.0	40 - 140	30	
Hexachlorobenzene	ND	130	69	69	0.0	77	74	4.0	40 - 140	30	
Hexachlorobutadiene	ND	230	57	61	6.8	66	66	0.0	40 - 140	30	
Hexachlorocyclopentadiene	ND	230	51	48	6.1	59	52	12.6	40 - 140	30	
Hexachloroethane	ND	130	55	59	7.0	65	65	0.0	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	79	81	2.5	91	88	3.4	40 - 140	30	
Isophorone	ND	130	62	62	0.0	69	67	2.9	40 - 140	30	
Naphthalene	ND	230	59	61	3.3	66	65	1.5	40 - 140	30	
Nitrobenzene	ND	130	71	71	0.0	81	78	3.8	40 - 140	30	
N-Nitrosodimethylamine	ND	230	64	65	1.6	69	68	1.5	40 - 140	30	
N-Nitrosodi-n-propylamine	ND	130	69	69	0.0	77	74	4.0	40 - 140	30	
N-Nitrosodiphenylamine	ND	130	70	71	1.4	80	76	5.1	40 - 140	30	
Pentachloronitrobenzene	ND	230	72	73	1.4	81	80	1.2	40 - 140	30	
Pentachlorophenol	ND	230	83	86	3.6	94	90	4.3	30 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Phenanthrene	ND	130	67	67	0.0	78	75	3.9	40 - 140	30
Phenol	ND	230	79	75	5.2	86	82	4.8	30 - 130	30
Pyrene	ND	230	71	72	1.4	82	77	6.3	30 - 130	30
Pyridine	ND	230	49	51	4.0	51	52	1.9	40 - 140	30
% 2,4,6-Tribromophenol	91	%	79	80	1.3	93	87	6.7	30 - 130	30
% 2-Fluorobiphenyl	70	%	62	64	3.2	71	68	4.3	30 - 130	30
% 2-Fluorophenol	72	%	68	68	0.0	76	72	5.4	30 - 130	30
% Nitrobenzene-d5	70	%	69	70	1.4	80	77	3.8	30 - 130	30
% Phenol-d5	74	%	73	69	5.6	78	74	5.3	30 - 130	30
% Terphenyl-d14	77	%	66	65	1.5	73	70	4.2	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 724570 (ug/kg), QC Sample No: CQ38282 (CQ34023, CQ34024, CQ34029, CQ34030)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	71	66	7.3	73	75	2.7	40 - 140	30
Acenaphthene	ND	230	66	61	7.9	67	70	4.4	30 - 130	30
Acenaphthylene	ND	230	66	61	7.9	65	69	6.0	40 - 140	30
Anthracene	ND	230	76	67	12.6	76	78	2.6	40 - 140	30
Benz(a)anthracene	ND	230	82	72	13.0	81	83	2.4	40 - 140	30
Benzo(a)pyrene	ND	230	82	73	11.6	83	85	2.4	40 - 140	30
Benzo(b)fluoranthene	ND	230	73	66	10.1	73	76	4.0	40 - 140	30
Benzo(ghi)perylene	ND	230	80	70	13.3	79	83	4.9	40 - 140	30
Benzo(k)fluoranthene	ND	230	75	67	11.3	76	77	1.3	40 - 140	30
Chrysene	ND	230	87	77	12.2	85	88	3.5	40 - 140	30
Dibenz(a,h)anthracene	ND	230	76	67	12.6	76	80	5.1	40 - 140	30
Fluoranthene	ND	230	71	63	11.9	73	74	1.4	40 - 140	30
Fluorene	ND	230	72	67	7.2	74	77	4.0	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	84	73	14.0	84	87	3.5	40 - 140	30
Naphthalene	ND	230	62	58	6.7	65	68	4.5	40 - 140	30
Phenanthrene	ND	230	73	65	11.6	73	76	4.0	40 - 140	30
Pyrene	ND	230	69	62	10.7	73	74	1.4	30 - 130	30
% 2-Fluorobiphenyl	66	%	65	60	8.0	64	68	6.1	30 - 130	30
% Nitrobenzene-d5	66	%	60	56	6.9	67	70	4.4	30 - 130	30
% Terphenyl-d14	62	%	60	54	10.5	64	64	0.0	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 724388 (ug/kg), QC Sample No: CQ38285 (CQ34021, CQ34022)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	76	74	2.7	70	74	5.6	40 - 140	30
Acenaphthene	ND	230	70	68	2.9	64	68	6.1	30 - 130	30
Acenaphthylene	ND	230	66	65	1.5	61	63	3.2	40 - 140	30
Anthracene	ND	230	78	74	5.3	70	71	1.4	40 - 140	30
Benz(a)anthracene	ND	230	84	82	2.4	78	79	1.3	40 - 140	30
Benzo(a)pyrene	ND	230	86	81	6.0	76	78	2.6	40 - 140	30
Benzo(b)fluoranthene	ND	230	78	74	5.3	70	71	1.4	40 - 140	30
Benzo(ghi)perylene	ND	230	84	79	6.1	71	72	1.4	40 - 140	30
Benzo(k)fluoranthene	ND	230	79	75	5.2	70	71	1.4	40 - 140	30
Chrysene	ND	230	88	86	2.3	81	83	2.4	40 - 140	30
Dibenz(a,h)anthracene	ND	230	81	76	6.4	68	69	1.5	40 - 140	30
Fluoranthene	ND	230	79	75	5.2	70	69	1.4	40 - 140	30

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Fluorene	ND	230	75	73	2.7	68	71	4.3	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	91	86	5.6	78	79	1.3	40 - 140	30	
Naphthalene	ND	230	66	64	3.1	60	63	4.9	40 - 140	30	
Phenanthrene	ND	230	76	73	4.0	68	69	1.5	40 - 140	30	
Pyrene	ND	230	78	73	6.6	70	69	1.4	30 - 130	30	
% 2-Fluorobiphenyl	68	%	67	67	0.0	62	64	3.2	30 - 130	30	
% Nitrobenzene-d5	71	%	67	67	0.0	61	64	4.8	30 - 130	30	
% Terphenyl-d14	70	%	66	62	6.3	59	60	1.7	30 - 130	30	

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 726467 (ug/L), QC Sample No: CQ47685 (CQ34023, CQ34024)

Semivolatiles by SIM, PAH - SPLP

2-Methylnaphthalene	ND	0.50	52	61	15.9				30 - 130	20	
Acenaphthene	ND	0.50	59	70	17.1				30 - 130	20	
Acenaphthylene	ND	0.10	56	67	17.9				30 - 130	20	
Anthracene	ND	0.10	75	81	7.7				30 - 130	20	
Benz(a)anthracene	ND	0.05	82	89	8.2				30 - 130	20	
Benzo(a)pyrene	ND	0.05	86	91	5.6				30 - 130	20	
Benzo(b)fluoranthene	ND	0.05	78	85	8.6				30 - 130	20	
Benzo(ghi)perylene	ND	0.02	64	69	7.5				30 - 130	20	
Benzo(k)fluoranthene	ND	0.05	91	95	4.3				30 - 130	20	
Chrysene	ND	0.05	75	79	5.2				30 - 130	20	
Dibenz(a,h)anthracene	ND	0.02	76	82	7.6				30 - 130	20	
Fluoranthene	ND	0.50	76	81	6.4				30 - 130	20	
Fluorene	ND	0.10	67	76	12.6				30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	0.05	80	89	10.7				30 - 130	20	
Naphthalene	ND	0.50	48	56	15.4				30 - 130	20	
Phenanthrene	ND	0.06	62	68	9.2				30 - 130	20	
Pyrene	ND	0.07	77	81	5.1				30 - 130	20	
% 2-Fluorobiphenyl	60	%	54	65	18.5				30 - 130	20	
% Nitrobenzene-d5	60	%	66	80	19.2				30 - 130	20	
% Terphenyl-d14	72	%	68	72	5.7				30 - 130	20	

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Dried up SPLP BLK

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 723753 (ug/kg), QC Sample No: CQ33622 (CQ34019, CQ34020, CQ34021, CQ34022, CQ34026, CQ34027)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	113	114	0.9	100	105	4.9	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	109	111	1.8	102	104	1.9	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	101	103	2.0	100	101	1.0	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	103	107	3.8	98	98	0.0	70 - 130	30	
1,1-Dichloroethane	ND	5.0	102	105	2.9	98	100	2.0	70 - 130	30	
1,1-Dichloroethene	ND	5.0	103	106	2.9	96	101	5.1	70 - 130	30	
1,1-Dichloropropene	ND	5.0	106	107	0.9	98	99	1.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	101	104	2.9	65	65	0.0	70 - 130	30	m
1,2,3-Trichloropropane	ND	5.0	102	105	2.9	98	98	0.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	103	103	0.0	68	68	0.0	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	1.0	106	105	0.9	87	86	1.2	70 - 130	30	

QA/QC Data

SDG I.D.: GCQ34019

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2-Dibromo-3-chloropropane	ND	5.0	115	120	4.3	96	100	4.1	70 - 130	30	
1,2-Dibromoethane	ND	5.0	106	108	1.9	94	96	2.1	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	102	102	0.0	85	85	0.0	70 - 130	30	
1,2-Dichloroethane	ND	5.0	102	103	1.0	96	96	0.0	70 - 130	30	
1,2-Dichloropropane	ND	5.0	104	104	0.0	99	100	1.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	106	108	1.9	94	95	1.1	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	104	104	0.0	88	88	0.0	70 - 130	30	
1,3-Dichloropropane	ND	5.0	105	106	0.9	96	99	3.1	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	101	103	2.0	85	85	0.0	70 - 130	30	
1,4-dioxane	ND	100	104	102	1.9	107	102	4.8	70 - 130	30	
2,2-Dichloropropane	ND	5.0	113	115	1.8	99	107	7.8	70 - 130	30	
2-Chlorotoluene	ND	5.0	106	106	0.0	95	95	0.0	70 - 130	30	
2-Hexanone	ND	25	95	100	5.1	73	75	2.7	70 - 130	30	
2-Isopropyltoluene	ND	5.0	108	110	1.8	96	97	1.0	70 - 130	30	
4-Chlorotoluene	ND	5.0	103	104	1.0	90	91	1.1	70 - 130	30	
4-Methyl-2-pentanone	ND	25	102	105	2.9	90	90	0.0	70 - 130	30	
Acetone	ND	10	82	82	0.0	66	70	5.9	70 - 130	30	m
Acrylonitrile	ND	5.0	101	105	3.9	85	84	1.2	70 - 130	30	
Benzene	ND	1.0	104	105	1.0	97	97	0.0	70 - 130	30	
Bromobenzene	ND	5.0	104	105	1.0	94	93	1.1	70 - 130	30	
Bromochloromethane	ND	5.0	104	106	1.9	96	97	1.0	70 - 130	30	
Bromodichloromethane	ND	5.0	109	110	0.9	98	100	2.0	70 - 130	30	
Bromoform	ND	5.0	119	120	0.8	93	99	6.3	70 - 130	30	
Bromomethane	ND	5.0	101	101	0.0	91	92	1.1	70 - 130	30	
Carbon Disulfide	ND	5.0	109	111	1.8	89	96	7.6	70 - 130	30	
Carbon tetrachloride	ND	5.0	112	115	2.6	97	104	7.0	70 - 130	30	
Chlorobenzene	ND	5.0	103	105	1.9	91	93	2.2	70 - 130	30	
Chloroethane	ND	5.0	105	102	2.9	91	94	3.2	70 - 130	30	
Chloroform	ND	5.0	102	104	1.9	95	99	4.1	70 - 130	30	
Chloromethane	ND	5.0	97	96	1.0	79	82	3.7	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	101	107	5.8	93	95	2.1	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	112	114	1.8	95	97	2.1	70 - 130	30	
Dibromochloromethane	ND	3.0	116	116	0.0	98	104	5.9	70 - 130	30	
Dibromomethane	ND	5.0	103	105	1.9	94	94	0.0	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	91	90	1.1	97	99	2.0	70 - 130	30	
Ethylbenzene	ND	1.0	106	107	0.9	94	97	3.1	70 - 130	30	
Hexachlorobutadiene	ND	5.0	105	107	1.9	76	79	3.9	70 - 130	30	
Isopropylbenzene	ND	1.0	107	109	1.9	99	98	1.0	70 - 130	30	
m&p-Xylene	ND	2.0	105	106	0.9	91	93	2.2	70 - 130	30	
Methyl ethyl ketone	ND	5.0	86	89	3.4	75	77	2.6	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	100	100	0.0	95	100	5.1	70 - 130	30	
Methylene chloride	ND	5.0	93	94	1.1	86	88	2.3	70 - 130	30	
Naphthalene	ND	5.0	106	111	4.6	40	37	7.8	70 - 130	30	m
n-Butylbenzene	ND	1.0	107	107	0.0	84	85	1.2	70 - 130	30	
n-Propylbenzene	ND	1.0	107	108	0.9	97	97	0.0	70 - 130	30	
o-Xylene	ND	2.0	106	107	0.9	93	95	2.1	70 - 130	30	
p-Isopropyltoluene	ND	1.0	108	108	0.0	93	93	0.0	70 - 130	30	
sec-Butylbenzene	ND	1.0	107	108	0.9	94	95	1.1	70 - 130	30	
Styrene	ND	5.0	106	107	0.9	87	88	1.1	70 - 130	30	
tert-Butylbenzene	ND	1.0	107	107	0.0	99	100	1.0	70 - 130	30	
Tetrachloroethene	ND	5.0	109	110	0.9	98	100	2.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	97	100	3.0	91	96	5.3	70 - 130	30	
Toluene	ND	1.0	104	105	1.0	94	95	1.1	70 - 130	30	

QA/QC Data

SDG I.D.: GCQ34019

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
trans-1,2-Dichloroethene	ND	5.0	102	102	0.0	90	93	3.3	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	118	121	2.5	95	96	1.0	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	127	130	2.3	96	98	2.1	70 - 130	30
Trichloroethene	ND	5.0	108	110	1.8	95	96	1.0	70 - 130	30
Trichlorofluoromethane	ND	5.0	109	110	0.9	101	104	2.9	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	106	108	1.9	99	104	4.9	70 - 130	30
Vinyl chloride	ND	5.0	103	104	1.0	87	91	4.5	70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	100	99	1.0	101	99	2.0	70 - 130	30
% Bromofluorobenzene	100	%	101	100	1.0	99	99	0.0	70 - 130	30
% Dibromofluoromethane	96	%	99	100	1.0	99	100	1.0	70 - 130	30
% Toluene-d8	98	%	100	100	0.0	100	100	0.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
April 15, 2024

Monday, April 15, 2024

Criteria: CT: GAM, RC, SWP

State: CT

Sample Criteria Exceedances Report

GCQ34019 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CQ34019	$8270-SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1200	250	1000	1000	ug/Kg
CQ34019	$8270-SMR	Benzo(b)fluoranthene	CT / RSR GA (mg/kg) / Semivolatiles	1200	250	1000	1000	ug/Kg
CQ34019	SPLP-CU	SPLP Copper	CT / RSR SWPC (ug/l) / Inorganics	0.100	0.010	0.048	0.048	mg/L
CQ34020	$8270-SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	1500	260	1000	1000	ug/Kg
CQ34020	$8270-SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1700	260	1000	1000	ug/Kg
CQ34020	$8270-SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2100	260	1000	1000	ug/Kg
CQ34020	$8270-SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2500	260	1000	1000	ug/Kg
CQ34020	$8270-SMR	Benz(a)anthracene	CT / RSR GA (mg/kg) / Semivolatiles	1700	260	1000	1000	ug/Kg
CQ34020	$8270-SMR	Benzo(a)pyrene	CT / RSR GA (mg/kg) / Semivolatiles	2100	260	1000	1000	ug/Kg
CQ34020	$8270-SMR	Benzo(b)fluoranthene	CT / RSR GA (mg/kg) / Semivolatiles	2500	260	1000	1000	ug/Kg
CQ34020	$8270-SMR	Dibenzofuran	CT / RSR GA,GAA (mg/kg) / APS Organics	250	200	200	200	ug/Kg
CQ34020	$8270-SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	1800	260	1000	1000	ug/Kg
CQ34020	$8270-SMR	Carbazole	CT / RSR GA,GAA (mg/kg) / APS Organics	310	200	200	200	ug/Kg
CQ34020	$8270-SMR	Benzo(ghi)perylene	CT / RSR GA,GAA (mg/kg) / APS Organics	1300	260	1000	1000	ug/Kg
CQ34020	$8270-SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GA,GAA (mg/kg) / APS Organics	1500	260	1000	1000	ug/Kg
CQ34020	PB-SM	Lead	CT / RSR DEC RES (mg/kg) / Inorganics	638	0.37	400	400	mg/Kg
CQ34020	SPLP-PB	SPLP Lead	CT / RSR GA (mg/l) TCLP / Inorganic/PCB	0.048	0.010	0.015	0.015	mg/L
CQ34020	SPLP-PB	SPLP Lead	CT / RSR SWPC (ug/l) / Inorganics	0.048	0.010	0.013	0.013	mg/L
CQ34023	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	2800	250	1000	1000	ug/Kg
CQ34023	$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	6000	250	1000	1000	ug/Kg
CQ34023	$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	5000	250	1000	1000	ug/Kg
CQ34023	$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	6200	250	1000	1000	ug/Kg
CQ34023	$8100SMR	Fluoranthene	CT / RSR GA (mg/kg) / Semivolatiles	14000	1300	5600	5600	ug/Kg
CQ34023	$8100SMR	Benz(a)anthracene	CT / RSR GA (mg/kg) / Semivolatiles	6000	250	1000	1000	ug/Kg
CQ34023	$8100SMR	Benzo(a)pyrene	CT / RSR GA (mg/kg) / Semivolatiles	5000	250	1000	1000	ug/Kg
CQ34023	$8100SMR	Benzo(b)fluoranthene	CT / RSR GA (mg/kg) / Semivolatiles	6200	250	1000	1000	ug/Kg
CQ34023	$8100SMR	Phenanthrene	CT / RSR GA (mg/kg) / Semivolatiles	11000	1300	4000	4000	ug/Kg
CQ34023	$8100SMR	Pyrene	CT / RSR GA (mg/kg) / Semivolatiles	6800	250	4000	4000	ug/Kg
CQ34023	$8100SMR	Benzo(k)fluoranthene	CT / RSR GA (mg/kg) / Semivolatiles	2200	250	1000	1000	ug/Kg
CQ34023	$8100SMR	Benzo(ghi)perylene	CT / RSR GA,GAA (mg/kg) / APS Organics	2400	250	1000	1000	ug/Kg
CQ34023	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GA,GAA (mg/kg) / APS Organics	2800	250	1000	1000	ug/Kg
CQ34023	$8100SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	5700	250	1000	1000	ug/Kg
CQ34024	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	1400	250	1000	1000	ug/Kg
CQ34024	$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3000	250	1000	1000	ug/Kg
CQ34024	$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3900	250	1000	1000	ug/Kg
CQ34024	$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3600	250	1000	1000	ug/Kg
CQ34024	$8100SMR	Fluoranthene	CT / RSR GA (mg/kg) / Semivolatiles	6200	250	5600	5600	ug/Kg
CQ34024	$8100SMR	Phenanthrene	CT / RSR GA (mg/kg) / Semivolatiles	7100	250	4000	4000	ug/Kg
CQ34024	$8100SMR	Benzo(b)fluoranthene	CT / RSR GA (mg/kg) / Semivolatiles	3600	250	1000	1000	ug/Kg
CQ34024	$8100SMR	Benz(a)anthracene	CT / RSR GA (mg/kg) / Semivolatiles	3900	250	1000	1000	ug/Kg

Monday, April 15, 2024

Criteria: CT: GAM, RC, SWP

State: CT

Sample Criteria Exceedances Report

GCQ34019 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CQ34024	$8100SMR	Benzo(k)fluoranthene	CT / RSR GA (mg/kg) / Semivolatiles	1300	250	1000	1000	ug/Kg
CQ34024	$8100SMR	Pyrene	CT / RSR GA (mg/kg) / Semivolatiles	5100	250	4000	4000	ug/Kg
CQ34024	$8100SMR	Benzo(a)pyrene	CT / RSR GA (mg/kg) / Semivolatiles	3000	250	1000	1000	ug/Kg
CQ34024	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GA,GAA (mg/kg) / APS Organics	1400	250	1000	1000	ug/Kg
CQ34024	$8100SMR	Benzo(ghi)perylene	CT / RSR GA,GAA (mg/kg) / APS Organics	1300	250	1000	1000	ug/Kg
CQ34024	$8100SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	3800	250	1000	1000	ug/Kg
CQ34030	$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1700	260	1000	1000	ug/Kg
CQ34030	$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1600	260	1000	1000	ug/Kg
CQ34030	$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1700	260	1000	1000	ug/Kg
CQ34030	$8100SMR	Benz(a)anthracene	CT / RSR GA (mg/kg) / Semivolatiles	1700	260	1000	1000	ug/Kg
CQ34030	$8100SMR	Benzo(a)pyrene	CT / RSR GA (mg/kg) / Semivolatiles	1600	260	1000	1000	ug/Kg
CQ34030	$8100SMR	Benzo(b)fluoranthene	CT / RSR GA (mg/kg) / Semivolatiles	1700	260	1000	1000	ug/Kg
CQ34030	$8100SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	1800	260	1000	1000	ug/Kg

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. ***Client:***

Project Location: 105093 ***Project Number:***

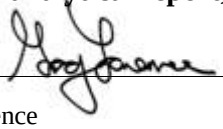
Laboratory Sample ID(s): CQ34019-CQ34027, CQ34029, CQ34030 ***Sampling Date(s):*** 3/20/2024, 3/21/2024

List RCP Methods Used (e.g., 8260, 8270, et cetera) 1311/1312, 6010, 7470/7471, 8082, 8260, 8270, ETPH

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)**	☐ Yes ☐ No ☑ NA
2	**Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?**	☑ Yes ☐ No
3	**Were samples received at an appropriate temperature (< 6 Degrees C)?**	☑ Yes ☐ No ☐ NA
4	**Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Section: ETPH Narration.**	☐ Yes ☑ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?** **b) Were these reporting limits met?**	☑ Yes ☐ No ☑ Yes ☐ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☐ Yes ☑ No
7	**Are project-specific matrix spikes and laboratory duplicates included in the data set?**	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:  **Position:** Assistant Lab Director

Printed Name: Greg Lawrence **Date:** Monday, April 15, 2024

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

April 15, 2024

SDG I.D.: GCQ34019

SDG Comments

8260 Volatile Organics: CQ34021, CQ34022
The client requested a short list for 8260 RCP Volatiles. Only the volatile aromatic constituents are reported as requested on the chain-of-custody.

8270 Semi-volatile Organics: CQ34021, CQ34022, CQ34023, CQ34024, CQ34029, CQ34030
The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

SPLP Semi-volatile Organics: QC34023, QC34024
Only the PAH constituents are reported as requested on the chain-of-custody. In order to achieve the requested reporting levels for the target compounds, the sample was extracted and analyzed via 8270 selective ion monitoring (SIM).

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 724314 (Samples: CQ34019, CQ34020, CQ34021, CQ34022, CQ34023, CQ34024, CQ34025, CQ34026, CQ34027, CQ34029, CQ34030): -----

The LCS/LCSD RPD exceeds the method criteria for one surrogate, no significant variability is suspected. (% COD (surr))

Instrument:

AU-FID11 03/28/24-1 Jeff Bucko, Chemist 03/28/24

CQ34027 (1X)

The initial calibration (ETPH131I) RSD for the compound list was less than 30% except for the following compounds: None.
As per section 7.2.3, a discrimination check standard was run (328A005A_1) and contained the following outliers: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID84 03/29/24-1 Jeff Bucko, Chemist 03/29/24

CQ34020 (5X), CQ34023 (5X), CQ34024 (5X), CQ34025 (5X)

The initial calibration (ET_325AI) RSD for the compound list was less than 30% except for the following compounds: None.
As per section 7.2.3, a discrimination check standard was run (329A003_1) and contained the following outliers: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL2 03/29/24-1 Jeff Bucko, Chemist 03/29/24

CQ34019 (1X), CQ34021 (1X), CQ34022 (1X), CQ34026 (1X), CQ34029 (1X), CQ34030 (1X)

The initial calibration (ETPH307I) RSD for the compound list was less than 30% except for the following compounds: None.
As per section 7.2.3, a discrimination check standard was run (329A003_1) and contained the following outliers: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 724314 (CQ34010)

CQ34019, CQ34020, CQ34021, CQ34022, CQ34023, CQ34024, CQ34025, CQ34026, CQ34027, CQ34029, CQ34030

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: % COD (surr)(32.0%)
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

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NY # 11301

Certification Report

April 15, 2024

SDG I.D.: GCQ34019

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 03/25/24 11:00 Grace White, Chemist 03/25/24

CQ34019, CQ34020, CQ34026, CQ34027

The method preparation blank, ICB, and CCBs contain all of the acids and reagents as the samples.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 723692 (CQ33904)

CQ34019, CQ34020, CQ34026, CQ34027

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS 04/11/24 10:43 Tina Hall, Chemist 04/11/24

CQ34019, CQ34020

Additional criteria for CCV and ICSAB:
Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB).The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS-2 03/25/24 11:14 Tina Hall, Chemist 03/25/24

CQ34019, CQ34020, CQ34026, CQ34027

The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 723560 (CQ33969)

CQ34019, CQ34020, CQ34026, CQ34027

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NY # 11301

Certification Report

April 15, 2024

SDG I.D.: GCQ34019

ICP Metals Narration

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All LCSD recoveries were within 75 - 125 with the following exceptions: None.
All LCS/LCSD RPDs were less than 35% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

Batch 726356 (CQ33408)

CQ34019, CQ34020

All LCS recoveries were within 80 - 120 with the following exceptions: None.
All LCSD recoveries were within 80 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD1 03/26/24-1 Saadia Chudary, Chemist 03/26/24

CQ34020 (10X), CQ34025 (10X), CQ34026 (10X)

The initial calibration (PC0209AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC0209BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD5 03/26/24-1 Saadia Chudary, Chemist 03/26/24

CQ34019 (10X), CQ34027 (10X)

The initial calibration (PC0228AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC0228BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

QC (Site Specific):

Batch 723768 (CQ34019)

CQ34019, CQ34020, CQ34025, CQ34026, CQ34027

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 40 - 140 with the following exceptions: None.
All MSD recoveries were within 40 - 140 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM28 04/01/24-1 Matt Richard, Chemist 04/01/24

CQ34023 (5X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and

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RCP Certification Report

April 15, 2024

SDG I.D.: GCQ34019

SVOA Narration

were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM28/28_BNA_0318):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM28/0401_06-28_BNA_0318):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM29 03/28/24-1 Matt Richard, Chemist 03/28/24

CQ34021 (1X), CQ34022 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM29/29_BNa_0321):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM29/0328_05-29_BNa_0321):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM29 03/29/24-1 Robert Looney, Chemist 03/29/24

CQ34023 (1X), CQ34024 (1X), CQ34029 (1X), CQ34030 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM29/29_BNa_0321):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM29/0329_07-29_BNa_0321):

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

April 15, 2024

SDG I.D.: GCQ34019

SVOA Narration

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM36 03/28/24-1 Matt Richard, Chemist 03/28/24

CQ34019 (1X), CQ34020 (1X), CQ34026 (1X), CQ34027 (1X)

Initial Calibration Evaluation (CHEM36/36_SPLIT_0326):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: Hexachlorobenzene 0.091 (0.1)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM36/0328_05-36_SPLIT_0326):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: Hexachlorobenzene 0.092 (0.1)
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 724373 (CQ34007)

CQ34019, CQ34020, CQ34026, CQ34027

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 724388 (CQ38285)

CQ34021, CQ34022

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 724570 (CQ38282)

CQ34023, CQ34024, CQ34029, CQ34030

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

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Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

April 15, 2024

SDG I.D.: GCQ34019

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM33 04/12/24-1 Matt Richard, Chemist 04/12/24

CQ34023 (1X), CQ34024 (1X)

Initial Calibration Evaluation (CHEM33/33_PAHSIM_0325):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM33/0412_03-33_PAHSIM_0325):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 726467 (CQ47685)

CQ34023, CQ34024

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Dried up SPLP BLK
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM26 03/22/24-2 Jane Li, Chemist 03/22/24

CQ34019 (1X), CQ34020 (1X), CQ34021 (1X), CQ34022 (1X), CQ34026 (1X), CQ34027 (1X)

Initial Calibration Evaluation (CHEM26/VT-031324):
97% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 22% (20%), Acetone 37% (20%), trans-1,4-dichloro-2-butene 29% (20%)
The following compounds did not meet Table 4 recommended minimum response factors: None.
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM26/0322_35-VT-031324):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
99% of target compounds met criteria.

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RCP Certification Report

April 15, 2024

SDG I.D.: GCQ34019

VOA Narration

The following compounds did not meet % deviation criteria: trans-1,4-dichloro-2-butene 31%H (30%)
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet Table 4 recommended minimum response factors: None.

QC (Batch Specific):

Batch 723753 (CQ33622) CHEM26 3/22/2024-2

CQ34019(1X), CQ34020(1X), CQ34021(1X), CQ34022(1X), CQ34026(1X), CQ34027(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Temperature Narration

The samples were received at 2.6C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes ☒ No ☐
Coolant: IPK ☐ ICE ☒ No ☐

PHOENIX Environmental Laboratories, Inc.

CT/MA/RI CHAIN OF CUSTODY RECORD

Temp 2.10 °C Pg of

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: makrina@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

Data Delivery/Contact Options:
☐ Fax:
☐ Phone:
☐ Email:

Customer: Tighe and Bond
Address: 213 Court St
Middletown CT

Project: 105493
Report to: Brian S. MARK J. ZACH H. J. LIL
Invoice to: Tighe and Bond
Quote # DAS Rates

Project P.O: 105493011

This section MUST be completed with Bottle Quantities.

Sampler's Signature: Jon Hart Date: 3/21/24

Client Sample - Information - Identification

Matrix Codes:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = _____(Other)

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	*MS/MSD (May be billable at analysis unit rate)	ZHM	VOC	AVOC	1,4 Dioxane	SVOC	PAH	RCRA 8 Metals	PCBs	pH	Hold	GL Amber 8 oz. [ ] w/H_3PO_4 [ ] $NAHSO_4$	Soil VOA Vials [ ] methanol [ ] H_2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H_2SO_4	PL As is [ ] 250ml [ ] 1000ml	PL H_2SO_4 [ ] 250ml [ ] 500ml [ ] 1000ml	PL HNO_3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is	
34019	TP-2 (5-7)	S	3/20/24	12:50	X	X		X	X		X	X				X	2										
34020	TP-3 (7-9)		3/20/24	12:15	X	X		X	X		X	X				X	2										
34021	TP-4 (8-9)		3/20/24	1:30	X		X			X						X	2										
34022	TP-5 (6-8)		3/20/24	1:15	X		X			X						X	2										
34023	TP-6 (4')		3/20/24	1:50	X					X			[redacted]	[redacted]	[redacted]	X	2										SEE NOTE
34024	TP-7 (4)		3/20/24	2:10	X					X			[redacted]	[redacted]	[redacted]	X	2										SEE NOTE
34025	TP-8 (6)		3/21/24	8:00	X								[redacted]	[redacted]	[redacted]		1										SEE NOTE
34026	TP-9 (4')		3/21/24	7:20	X	X		X	X		X	X				X	2										
34027	TP-10 (4')		3/21/24	7:40	X	X		X	X		X	X				X	2										
34028	TP-11 (4-6)		3/20/24	2:30											X	X	2										
34029	TP-11 (6-8)			2:45	X					X						X	2										
34030	TP-11 (8-10)	↓	↓	2:50	X					X						X	2										

Relinquished by:	Accepted by:	Date:	Time:
Jon Hart		3/22/24	1515
James Bailey		3/22/24	1630

Comments, Special Requirements or Regulations:
* RL for PCB < 0.5 mg/kg
* TP-7, TP-[redacted] → ADD pH
* TP-8 → ADD PCB soxhlet

***MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.**

Turnaround Time:
☐ 1 Day* ☒ Standard
☐ 2 Days* ☐ Other
☐ 3 Days*
☐ 4 Days*
☐ 5 Days*

* SURCHARGES MAY APPLY

RI
☐ RES DEC
☐ I/C DEC
☐ GA Leachability
☐ GB Leachability
☐ GA -GW Objectives
☐ GB -GW Objectives
☐ Other

CT
☒ RCP Cert
☐ GWPC
☐ SWPC
☒ GA PMC
☐ GB PMC
☒ SWPC
☒ RES DEC
☐ I/C DEC

MA
☐ MCP Certification
☐ GW-1 ☐ RCS-1 / RCGW-1
☐ GW-2 ☐ RCS-2 / RCGW-2
☐ GW-3 ☐ S-1 Calc.
☐ S-1
☐ S-2 ☐ _____
☐ S-3
☐ SW Protection

State where samples were collected: CT

Data Format
☐ Excel
☒ PDF
☐ GIS/Key
☐ EQuIS
☒ Other

Data Package
☐ Tier II Checklist*
☐ Full Data Package*
☒ Phoenix Std
☐ Other

* SURCHARGE APPLIES

Form PEL-126 Rev. 9/23

Sarah Bell

From: Mark Paulsson <MPaulsson@TigheBond.com>
Sent: Wednesday, April 10, 2024 11:24 AM
To: Sarah Bell; Shannon Wilhelm
Cc: Brian Sirowich
Subject: RE: Questions on add ons FW: Olson Drive (105093011) - SPLP Activation

Yes, please run the samples that are currently pass hold. For those samples that expire today, please accelerate to 24hr. Thanks,

Mark

Mark Paulsson

Senior Environmental Scientist I

Tighe&Bond

m. 203.216.3139

1000 Bridgeport Avenue, 3rd Floor, Shelton, CT 06484

w: tighebond.com | halvorsondesign.com

From: Sarah Bell <sarah@phoenixlabs.com>
Sent: Wednesday, April 10, 2024 11:20 AM
To: Shannon Wilhelm <shannon@phoenixlabs.com>
Cc: Mark Paulsson <MPaulsson@TigheBond.com>
Subject: Questions on add ons FW: Olson Drive (105093011) - SPLP Activation
Importance: High

[Caution - External Sender]

Mark see below for answers 😊

CQ34016 – past hold should we still add on
CQ36800 & CQ37533- goes out of hold today have to log in for 24hr to make holding time, or we can run past hold whichever you think?
CQ34023, 24, CQ34010, CQ36509 – past holding time. Still add on?

Sarah Bell
Project Manager
Phoenix Environmental Laboratories
587 East Middle Turnpike
Sarah@phoenixlabs.com
860-812-0270
Website: www.phoenixlabs.com

From: Shannon Wilhelm <shannon@phoenixlabs.com>
Sent: Wednesday, April 10, 2024 11:02 AM
To: Sarah Bell <sarah@phoenixlabs.com>
Subject: FW: Olson Drive (105093011) - SPLP Activation

CQ34016 – past hold
CQ36800 & CQ37533- goes out of hold today
CQ34023, 24, CQ34010, CQ36509 – past holding time.

Ok to add past hold and should I add the ones 24 hr that go out of hold today?

LMK, Thanks,
Shannon

From: Mark Paulsson <MPaulsson@TigheBond.com>
Sent: Wednesday, April 10, 2024 8:00 AM
To: Sarah Bell <sarah@phoenixlabs.com>
Cc: Brian Sirowich <BSirowich@TigheBond.com>; Jill L. Libby <JLLibby@tigheBond.com>
Subject: Olson Drive (105093011) - SPLP Activation

Hi Sarah,
Can you activate the following for SPLP analysis?

SPLP ETPH:

MW-4
6 - 7.5 ft
3/20/2024
CQ34016
GCQ34006

SPLP DDT:

MW-1	TB-16
0 - 1 ft	0 - 1 ft
3/27/2024	3/27/2024
CQ36800	CQ37533
GCQ36795	GCQ37525

**Confirm that SPLP DDT analysis is pending for TB-23 (0-1')/ CQ33974*

SPLP Chlordane:

MW-1
0 - 1 ft
3/27/2024
CQ36800
GCQ36795

SPLP PAHs:

MW-4	TP-6	TP-7	TP-17	TB-14
6 - 7.5 ft	4 ft	4 ft	3 - 4 ft	7 - 9 ft
3/20/2024	3/20/2024	3/20/2024	3/21/2024	3/26/2024
CQ34016	CQ34023	CQ34024	CQ34010	CQ36509
GCQ34006	GCQ34019	GCQ34019	GCQ34006	GCQ36507

SPLP Metals:

T&B Sample ID	Depth	Date Collected	Lab Sample ID	Lab Report ID	Requested SPLP Analysis
DUP-1	9 - 10.5 ft	3/21/2024	CQ34014	GCQ34006	SPLP Barium, SPLP Lead, SPLP Mercury
DUP-2	6 - 8 ft	3/21/2024	CQ33409	GCQ33408	SPLP Arsenic
MW-1	19 - 20 ft	3/26/2024	CQ36516	GCQ36507	SPLP Beryllium, SPLP Chromium, SPLP Vanadium
MW-2	6 - 8 ft	3/21/2024	CQ33408	GCQ33408	SPLP Arsenic, SPLP Nickel
MW-3	6 - 7 ft	3/26/2024	CQ35715	GCQ35701	SPLP Antimony, SPLP Arsenic, SPLP Cadmium, SPLP Copper, SPLP Nickel
MW-4	6 - 7.5 ft	3/20/2024	CQ34016	GCQ34006	SPLP Arsenic, SPLP Barium, SPLP Beryllium, SPLP Cadmium, SPLP Chromium, SPLP Copper, SPLP Lead, SPLP Nickel, SPLP Vanadium, SPLP Zinc
MW-6	4 - 5 ft	3/22/2024	CQ33969	GCQ33969	SPLP Antimony, SPLP Arsenic, SPLP Barium, SPLP Cadmium, SPLP Chromium, SPLP Copper, SPLP Lead, SPLP Mercury, SPLP Silver, SPLP Zinc

MW-8	0 - 3 ft	3/22/2024	CQ33971	GCQ33969	SPLP Beryllium
TB-24	7 - 9 ft	3/27/2024	CQ36798	GCQ36795	SPLP Mercury
TP-12	9 - 10.5 ft	3/21/2024	CQ34006	GCQ34006	SPLP Mercury
TP-14	9 - 10.5 ft	3/21/2024	CQ34008	GCQ34006	SPLP Barium, SPLP Lead, SPLP Mercury, SPLP Zinc
TP-15	9 - 10 ft	3/21/2024	CQ34009	GCQ34006	SPLP Beryllium, SPLP Vanadium
TP-16	10 - 11 ft	3/27/2024	CQ36799	GCQ36795	SPLP Vanadium
TP-2	5 - 7 ft	3/20/2024	CQ34019	GCQ34019	SPLP Antimony, SPLP Cadmium, SPLP Chromium, SPLP Copper, SPLP Nickel, SPLP Vanadium, SPLP Zinc
TP-3	7 - 9 ft	3/20/2024	CQ34020	GCQ34019	SPLP Antimony, SPLP Barium, SPLP Beryllium, SPLP Cadmium, SPLP Chromium, SPLP Copper, SPLP Lead, SPLP Nickel, SPLP Zinc

Please let me know if you have any questions.

Thanks,

Mark

Mark Paulsson

Senior Environmental Scientist I

Tighe&Bond

m. 203.216.3139

1000 Bridgeport Avenue, 3rd Floor, Shelton, CT 06484

w: tighebond.com | halvorsondesign.com

PHOENIX
Environmental Laboratories, Inc.

Monday, April 15, 2024

Attn: Mark Paulsson
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: **OLSON DRIVE**
SDG ID: **GCQ36507**
Sample ID#s: CQ36507 - CQ36514, CQ36516

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

April 15, 2024

SDG I.D.: GCQ36507

Project ID: OLSON DRIVE

Client Id	Lab Id	Matrix
TB-12 (7-9)	CQ36507	SOIL
TB-13 (7-9)	CQ36508	SOIL
TB-14 (7-9)	CQ36509	SOIL
TB-15 (7-9)	CQ36510	SOIL
TB-16 (5-7)	CQ36511	SOIL
TB-17 (5-7)	CQ36512	SOIL
TB-18 (5-7)	CQ36513	SOIL
TB-19 (5-7)	CQ36514	SOIL
MW-1 (19-20)	CQ36516	SOIL

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 15, 2024

FOR: Attn: Mark Paulsson
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/26/24	13:25
Location Code:	TIGHE-DAS	Received by:	SW	03/27/24	11:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093001				

Laboratory Data

SDG ID: GCQ36507
Phoenix ID: CQ36507

Project ID: OLSON DRIVE
Client ID: TB-12 (7-9)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	94		%		03/27/24	CV	SW846-%Solid
Extraction of ETPH	Completed				03/30/24	K/K	SW3546
Soil Extraction for SVOA PAH	Completed				03/29/24	H/A	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	260	mg/Kg	5	04/01/24	JRB	CTETPH
Identification	ND		mg/Kg	5	04/01/24	JRB	CTETPH
QA/QC Surrogates							
% COD (surr)	61		%	5	04/01/24	JRB	50 - 150 %
% Terphenyl (surr)	66		%	5	04/01/24	JRB	50 - 150 %
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
Benzene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
Chlorobenzene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
Ethylbenzene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
Isopropylbenzene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
m&p-Xylene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
Naphthalene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
n-Butylbenzene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D

Project ID: OLSON DRIVE
Client ID: TB-12 (7-9)

Phoenix I.D.: CQ36507

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
o-Xylene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
p-Isopropyltoluene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
sec-Butylbenzene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
Styrene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
tert-Butylbenzene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
Toluene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
Total Xylenes	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	03/28/24	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	03/28/24	JLI	70 - 130 %
% Dibromofluoromethane	93		%	1	03/28/24	JLI	70 - 130 %
% Toluene-d8	91		%	1	03/28/24	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	240	ug/Kg	1	03/30/24	KCA	SW8270E
Acenaphthene	ND	240	ug/Kg	1	03/30/24	KCA	SW8270E
Acenaphthylene	ND	240	ug/Kg	1	03/30/24	KCA	SW8270E
Anthracene	260	240	ug/Kg	1	03/30/24	KCA	SW8270E
Benz(a)anthracene	1500	240	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(a)pyrene	1600	240	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(b)fluoranthene	1600	240	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(ghi)perylene	820	240	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(k)fluoranthene	610	240	ug/Kg	1	03/30/24	KCA	SW8270E
Chrysene	1500	240	ug/Kg	1	03/30/24	KCA	SW8270E
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	03/30/24	KCA	SW8270E
Fluoranthene	2500	240	ug/Kg	1	03/30/24	KCA	SW8270E
Fluorene	ND	240	ug/Kg	1	03/30/24	KCA	SW8270E
Indeno(1,2,3-cd)pyrene	900	240	ug/Kg	1	03/30/24	KCA	SW8270E
Naphthalene	ND	240	ug/Kg	1	03/30/24	KCA	SW8270E
Phenanthrene	880	240	ug/Kg	1	03/30/24	KCA	SW8270E
Pyrene	2400	240	ug/Kg	1	03/30/24	KCA	SW8270E
QA/QC Surrogates							
% 2-Fluorobiphenyl	69		%	1	03/30/24	KCA	30 - 130 %
% Nitrobenzene-d5	71		%	1	03/30/24	KCA	30 - 130 %
% Terphenyl-d14	57		%	1	03/30/24	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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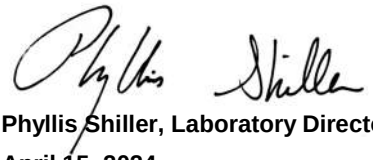

Phyllis Shiller, Laboratory Director

April 15, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 15, 2024

FOR: Attn: Mark Paulsson
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/26/24	13:30
Location Code:	TIGHE-DAS	Received by:	SW	03/27/24	11:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093001				

Laboratory Data

SDG ID: GCQ36507
Phoenix ID: CQ36508

Project ID: OLSON DRIVE
Client ID: TB-13 (7-9)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		03/27/24	CV	SW846-%Solid
Extraction of ETPH	Completed				03/30/24	K/K	SW3546
Soil Extraction for SVOA PAH	Completed				03/29/24	H/A	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	04/01/24	JRB	CTETPH
Identification	ND		mg/Kg	1	04/01/24	JRB	CTETPH
QA/QC Surrogates							
% COD (surr)	94		%	1	04/01/24	JRB	50 - 150 %
% Terphenyl (surr)	97		%	1	04/01/24	JRB	50 - 150 %
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	7.0	ug/Kg	1	03/28/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	7.0	ug/Kg	1	03/28/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	7.0	ug/Kg	1	03/28/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	7.0	ug/Kg	1	03/28/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	7.0	ug/Kg	1	03/28/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	7.0	ug/Kg	1	03/28/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	7.0	ug/Kg	1	03/28/24	JLI	SW8260D
Benzene	ND	7.0	ug/Kg	1	03/28/24	JLI	SW8260D
Chlorobenzene	ND	7.0	ug/Kg	1	03/28/24	JLI	SW8260D
Ethylbenzene	ND	7.0	ug/Kg	1	03/28/24	JLI	SW8260D
Isopropylbenzene	ND	7.0	ug/Kg	1	03/28/24	JLI	SW8260D
m&p-Xylene	ND	7.0	ug/Kg	1	03/28/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	7.0	ug/Kg	1	03/28/24	JLI	SW8260D
Naphthalene	ND	7.0	ug/Kg	1	03/28/24	JLI	SW8260D
n-Butylbenzene	ND	7.0	ug/Kg	1	03/28/24	JLI	SW8260D

Project ID: OLSON DRIVE
Client ID: TB-13 (7-9)

Phoenix I.D.: CQ36508

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	7.0	ug/Kg	1	03/28/24	JLI	SW8260D
o-Xylene	ND	7.0	ug/Kg	1	03/28/24	JLI	SW8260D
p-Isopropyltoluene	ND	7.0	ug/Kg	1	03/28/24	JLI	SW8260D
sec-Butylbenzene	ND	7.0	ug/Kg	1	03/28/24	JLI	SW8260D
Styrene	ND	7.0	ug/Kg	1	03/28/24	JLI	SW8260D
tert-Butylbenzene	ND	7.0	ug/Kg	1	03/28/24	JLI	SW8260D
Toluene	ND	7.0	ug/Kg	1	03/28/24	JLI	SW8260D
Total Xylenes	ND	7.0	ug/Kg	1	03/28/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	03/28/24	JLI	70 - 130 %
% Bromofluorobenzene	91		%	1	03/28/24	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	03/28/24	JLI	70 - 130 %
% Toluene-d8	90		%	1	03/28/24	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Acenaphthene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Acenaphthylene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Anthracene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Benz(a)anthracene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(a)pyrene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(b)fluoranthene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(ghi)perylene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(k)fluoranthene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Chrysene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Fluoranthene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Fluorene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Naphthalene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Phenanthrene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Pyrene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
QA/QC Surrogates							
% 2-Fluorobiphenyl	66		%	1	03/30/24	KCA	30 - 130 %
% Nitrobenzene-d5	65		%	1	03/30/24	KCA	30 - 130 %
% Terphenyl-d14	60		%	1	03/30/24	KCA	30 - 130 %

Project ID: OLSON DRIVE
Client ID: TB-13 (7-9)

Phoenix I.D.: CQ36508

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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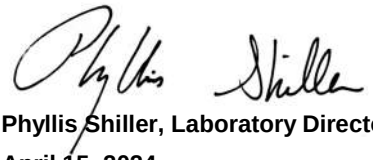

Phyllis Shiller, Laboratory Director

April 15, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 15, 2024

FOR: Attn: Mark Paulsson
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/26/24	13:35
Location Code:	TIGHE-DAS	Received by:	SW	03/27/24	11:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093001				

Laboratory Data

SDG ID: GCQ36507
Phoenix ID: CQ36509

Project ID: OLSON DRIVE
Client ID: TB-14 (7-9)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		03/27/24	CV	SW846-%Solid
Extraction of ETPH	Completed				03/30/24	K/K	SW3546
Soil Extraction for SVOA PAH	Completed				03/29/24	H/A	SW3545A
SPLP Extraction for Organics	Completed				04/10/24	AL	SW1312
SPLP Semivolatiles (SIM) Ext.	Completed				04/11/24	Z/MQ	SW3510C/SW3520C
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	270	mg/Kg	5	04/01/24	JRB	CTETPH
Identification	ND		mg/Kg	5	04/01/24	JRB	CTETPH
QA/QC Surrogates							
% COD (surr)	74		%	5	04/01/24	JRB	50 - 150 %
% Terphenyl (surr)	87		%	5	04/01/24	JRB	50 - 150 %
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
Benzene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
Chlorobenzene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
Ethylbenzene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
Isopropylbenzene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
m&p-Xylene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Naphthalene	320	310	ug/Kg	50	03/28/24	JLI	SW8260D
n-Butylbenzene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
n-Propylbenzene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
o-Xylene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
p-Isopropyltoluene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
sec-Butylbenzene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
Styrene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
tert-Butylbenzene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
Toluene	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
Total Xylenes	ND	6.0	ug/Kg	1	03/28/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	03/28/24	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	03/28/24	JLI	70 - 130 %
% Dibromofluoromethane	93		%	1	03/28/24	JLI	70 - 130 %
% Toluene-d8	91		%	1	03/28/24	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	95		%	50	03/28/24	JLI	70 - 130 %
% Bromofluorobenzene (50x)	96		%	50	03/28/24	JLI	70 - 130 %
% Dibromofluoromethane (50x)	90		%	50	03/28/24	JLI	70 - 130 %
% Toluene-d8 (50x)	90		%	50	03/28/24	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	390	250	ug/Kg	1	03/30/24	KCA	SW8270E
Acenaphthene	1000	250	ug/Kg	1	03/30/24	KCA	SW8270E
Acenaphthylene	ND	250	ug/Kg	1	03/30/24	KCA	SW8270E
Anthracene	2500	250	ug/Kg	1	03/30/24	KCA	SW8270E
Benz(a)anthracene	4500	250	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(a)pyrene	3600	250	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(b)fluoranthene	4100	250	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(ghi)perylene	1300	250	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(k)fluoranthene	1400	250	ug/Kg	1	03/30/24	KCA	SW8270E
Chrysene	4400	250	ug/Kg	1	03/30/24	KCA	SW8270E
Dibenz(a,h)anthracene	470	250	ug/Kg	1	03/30/24	KCA	SW8270E
Fluoranthene	6200	250	ug/Kg	1	03/30/24	KCA	SW8270E
Fluorene	1400	250	ug/Kg	1	03/30/24	KCA	SW8270E
Indeno(1,2,3-cd)pyrene	1500	250	ug/Kg	1	03/30/24	KCA	SW8270E
Naphthalene	800	250	ug/Kg	1	03/30/24	KCA	SW8270E
Phenanthrene	6900	250	ug/Kg	1	03/30/24	KCA	SW8270E
Pyrene	5200	250	ug/Kg	1	03/30/24	KCA	SW8270E
QA/QC Surrogates							
% 2-Fluorobiphenyl	67		%	1	03/30/24	KCA	30 - 130 %
% Nitrobenzene-d5	68		%	1	03/30/24	KCA	30 - 130 %
% Terphenyl-d14	51		%	1	03/30/24	KCA	30 - 130 %
SPLP Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.47	ug/L	1	04/12/24	MR	SW8270E (SIM)
Acenaphthene	ND	0.47	ug/L	1	04/12/24	MR	SW8270E (SIM)
Acenaphthylene	ND	0.28	ug/L	1	04/12/24	MR	SW8270E (SIM)
Anthracene	ND	0.47	ug/L	1	04/12/24	MR	SW8270E (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	04/12/24	MR	SW8270E (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	04/12/24	MR	SW8270E (SIM)

Project ID: OLSON DRIVE
Client ID: TB-14 (7-9)

Phoenix I.D.: CQ36509

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(b)fluoranthene	ND	0.07	ug/L	1	04/12/24	MR	SW8270E (SIM)
Benzo(ghi)perylene	ND	0.45	ug/L	1	04/12/24	MR	SW8270E (SIM)
Benzo(k)fluoranthene	ND	0.28	ug/L	1	04/12/24	MR	SW8270E (SIM)
Chrysene	ND	0.47	ug/L	1	04/12/24	MR	SW8270E (SIM)
Dibenz(a,h)anthracene	ND	0.09	ug/L	1	04/12/24	MR	SW8270E (SIM)
Fluoranthene	ND	0.47	ug/L	1	04/12/24	MR	SW8270E (SIM)
Fluorene	ND	0.47	ug/L	1	04/12/24	MR	SW8270E (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.09	ug/L	1	04/12/24	MR	SW8270E (SIM)
Naphthalene	ND	0.47	ug/L	1	04/12/24	MR	SW8270E (SIM)
Phenanthrene	0.36	0.06	ug/L	1	04/12/24	MR	SW8270E (SIM)
Pyrene	ND	0.47	ug/L	1	04/12/24	MR	SW8270E (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	56		%	1	04/12/24	MR	30 - 130 %
% Nitrobenzene-d5	57		%	1	04/12/24	MR	30 - 130 %
% Terphenyl-d14	76		%	1	04/12/24	MR	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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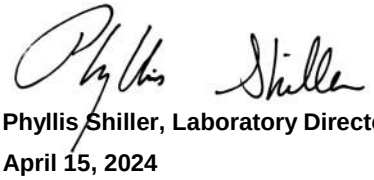

Phyllis Shiller, Laboratory Director

April 15, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 15, 2024

FOR: Attn: Mark Paulsson
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/26/24	13:40
Location Code:	TIGHE-DAS	Received by:	SW	03/27/24	11:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093001				

Laboratory Data

SDG ID: GCQ36507
Phoenix ID: CQ36510

Project ID: OLSON DRIVE
Client ID: TB-15 (7-9)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		03/27/24	CV	SW846-%Solid
Extraction of ETPH	Completed				03/30/24	K/K	SW3546
Soil Extraction for SVOA PAH	Completed				03/29/24	H/A	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	53	mg/Kg	1	04/01/24	JRB	CTETPH
Identification	ND		mg/Kg	1	04/01/24	JRB	CTETPH
QA/QC Surrogates							
% COD (surr)	101		%	1	04/01/24	JRB	50 - 150 %
% Terphenyl (surr)	104		%	1	04/01/24	JRB	50 - 150 %
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
Benzene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
Chlorobenzene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
Ethylbenzene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
Isopropylbenzene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
m&p-Xylene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
Naphthalene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
n-Butylbenzene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D

Project ID: OLSON DRIVE
Client ID: TB-15 (7-9)

Phoenix I.D.: CQ36510

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
o-Xylene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
p-Isopropyltoluene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
sec-Butylbenzene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
Styrene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
tert-Butylbenzene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
Toluene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
Total Xylenes	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	03/28/24	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	03/28/24	JLI	70 - 130 %
% Dibromofluoromethane	92		%	1	03/28/24	JLI	70 - 130 %
% Toluene-d8	90		%	1	03/28/24	JLI	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	250	ug/Kg	1	03/30/24	KCA	SW8270E
Acenaphthene	ND	250	ug/Kg	1	03/30/24	KCA	SW8270E
Acenaphthylene	ND	250	ug/Kg	1	03/30/24	KCA	SW8270E
Anthracene	ND	250	ug/Kg	1	03/30/24	KCA	SW8270E
Benz(a)anthracene	ND	250	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(a)pyrene	ND	250	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(b)fluoranthene	ND	250	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(ghi)perylene	ND	250	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(k)fluoranthene	ND	250	ug/Kg	1	03/30/24	KCA	SW8270E
Chrysene	ND	250	ug/Kg	1	03/30/24	KCA	SW8270E
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	03/30/24	KCA	SW8270E
Fluoranthene	ND	250	ug/Kg	1	03/30/24	KCA	SW8270E
Fluorene	ND	250	ug/Kg	1	03/30/24	KCA	SW8270E
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	03/30/24	KCA	SW8270E
Naphthalene	ND	250	ug/Kg	1	03/30/24	KCA	SW8270E
Phenanthrene	ND	250	ug/Kg	1	03/30/24	KCA	SW8270E
Pyrene	ND	250	ug/Kg	1	03/30/24	KCA	SW8270E
QA/QC Surrogates							
% 2-Fluorobiphenyl	67		%	1	03/30/24	KCA	30 - 130 %
% Nitrobenzene-d5	67		%	1	03/30/24	KCA	30 - 130 %
% Terphenyl-d14	62		%	1	03/30/24	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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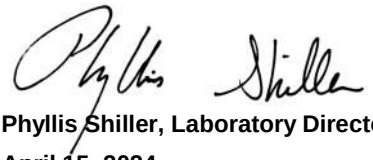

Phyllis Shiller, Laboratory Director

April 15, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 15, 2024

FOR: Attn: Mark Paulsson
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/26/24	13:45
Location Code:	TIGHE-DAS	Received by:	SW	03/27/24	11:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093001				

Laboratory Data

SDG ID: GCQ36507
Phoenix ID: CQ36511

Project ID: OLSON DRIVE
Client ID: TB-16 (5-7)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		03/27/24	CV	SW846-%Solid
Extraction of ETPH	Completed				03/30/24	K/K	SW3546
Soil Extraction for SVOA PAH	Completed				03/29/24	H/A	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	04/01/24	JRB	CTETPH
Identification	ND		mg/Kg	1	04/01/24	JRB	CTETPH
QA/QC Surrogates							
% COD (surr)	92		%	1	04/01/24	JRB	50 - 150 %
% Terphenyl (surr)	94		%	1	04/01/24	JRB	50 - 150 %
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	6.7	ug/Kg	1	03/28/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	6.7	ug/Kg	1	03/28/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	6.7	ug/Kg	1	03/28/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	6.7	ug/Kg	1	03/28/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	6.7	ug/Kg	1	03/28/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	6.7	ug/Kg	1	03/28/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	6.7	ug/Kg	1	03/28/24	JLI	SW8260D
Benzene	ND	6.7	ug/Kg	1	03/28/24	JLI	SW8260D
Chlorobenzene	ND	6.7	ug/Kg	1	03/28/24	JLI	SW8260D
Ethylbenzene	ND	6.7	ug/Kg	1	03/28/24	JLI	SW8260D
Isopropylbenzene	ND	6.7	ug/Kg	1	03/28/24	JLI	SW8260D
m&p-Xylene	ND	6.7	ug/Kg	1	03/28/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	6.7	ug/Kg	1	03/28/24	JLI	SW8260D
Naphthalene	ND	6.7	ug/Kg	1	03/28/24	JLI	SW8260D
n-Butylbenzene	ND	6.7	ug/Kg	1	03/28/24	JLI	SW8260D

Project ID: OLSON DRIVE
Client ID: TB-16 (5-7)

Phoenix I.D.: CQ36511

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	6.7	ug/Kg	1	03/28/24	JLI	SW8260D
o-Xylene	ND	6.7	ug/Kg	1	03/28/24	JLI	SW8260D
p-Isopropyltoluene	ND	6.7	ug/Kg	1	03/28/24	JLI	SW8260D
sec-Butylbenzene	ND	6.7	ug/Kg	1	03/28/24	JLI	SW8260D
Styrene	ND	6.7	ug/Kg	1	03/28/24	JLI	SW8260D
tert-Butylbenzene	ND	6.7	ug/Kg	1	03/28/24	JLI	SW8260D
Toluene	ND	6.7	ug/Kg	1	03/28/24	JLI	SW8260D
Total Xylenes	ND	6.7	ug/Kg	1	03/28/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	96		%	1	03/28/24	JLI	70 - 130 %
% Bromofluorobenzene	85		%	1	03/28/24	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	03/28/24	JLI	70 - 130 %
% Toluene-d8	88		%	1	03/28/24	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Acenaphthene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Acenaphthylene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Anthracene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Benz(a)anthracene	360	260	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(a)pyrene	400	260	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(b)fluoranthene	490	260	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(ghi)perylene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(k)fluoranthene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Chrysene	430	260	ug/Kg	1	03/30/24	KCA	SW8270E
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Fluoranthene	550	260	ug/Kg	1	03/30/24	KCA	SW8270E
Fluorene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Naphthalene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Phenanthrene	330	260	ug/Kg	1	03/30/24	KCA	SW8270E
Pyrene	520	260	ug/Kg	1	03/30/24	KCA	SW8270E
QA/QC Surrogates							
% 2-Fluorobiphenyl	70		%	1	03/30/24	KCA	30 - 130 %
% Nitrobenzene-d5	71		%	1	03/30/24	KCA	30 - 130 %
% Terphenyl-d14	61		%	1	03/30/24	KCA	30 - 130 %

Project ID: OLSON DRIVE
Client ID: TB-16 (5-7)

Phoenix I.D.: CQ36511

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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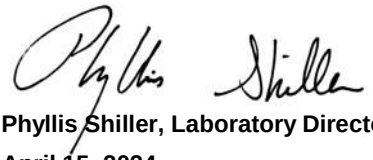

Phyllis Shiller, Laboratory Director

April 15, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 15, 2024

FOR: Attn: Mark Paulsson
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/26/24	13:50
Location Code:	TIGHE-DAS	Received by:	SW	03/27/24	11:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093001				

Laboratory Data

SDG ID: GCQ36507
Phoenix ID: CQ36512

Project ID: OLSON DRIVE
Client ID: TB-17 (5-7)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		03/27/24	CV	SW846-%Solid
Extraction of ETPH	Completed				03/30/24	K/K	SW3546
Soil Extraction for SVOA PAH	Completed				03/29/24	H/A	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	04/01/24	JRB	CTETPH
Identification	ND		mg/Kg	1	04/01/24	JRB	CTETPH
QA/QC Surrogates							
% COD (surr)	104		%	1	04/01/24	JRB	50 - 150 %
% Terphenyl (surr)	111		%	1	04/01/24	JRB	50 - 150 %
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
Benzene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
Chlorobenzene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
Ethylbenzene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
Isopropylbenzene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
m&p-Xylene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
Naphthalene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
n-Butylbenzene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D

Project ID: OLSON DRIVE
Client ID: TB-17 (5-7)

Phoenix I.D.: CQ36512

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
o-Xylene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
p-Isopropyltoluene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
sec-Butylbenzene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
Styrene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
tert-Butylbenzene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
Toluene	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
Total Xylenes	ND	6.2	ug/Kg	1	03/28/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	03/28/24	JLI	70 - 130 %
% Bromofluorobenzene	87		%	1	03/28/24	JLI	70 - 130 %
% Dibromofluoromethane	93		%	1	03/28/24	JLI	70 - 130 %
% Toluene-d8	90		%	1	03/28/24	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Acenaphthene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Acenaphthylene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Anthracene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Benz(a)anthracene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(a)pyrene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(b)fluoranthene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(ghi)perylene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(k)fluoranthene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Chrysene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Fluoranthene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Fluorene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Naphthalene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Phenanthrene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
Pyrene	ND	260	ug/Kg	1	03/30/24	KCA	SW8270E
QA/QC Surrogates							
% 2-Fluorobiphenyl	66		%	1	03/30/24	KCA	30 - 130 %
% Nitrobenzene-d5	65		%	1	03/30/24	KCA	30 - 130 %
% Terphenyl-d14	61		%	1	03/30/24	KCA	30 - 130 %

Project ID: OLSON DRIVE
Client ID: TB-17 (5-7)

Phoenix I.D.: CQ36512

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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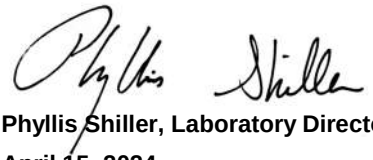

Phyllis Shiller, Laboratory Director

April 15, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 15, 2024

FOR: Attn: Mark Paulsson
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/26/24	14:00
Location Code:	TIGHE-DAS	Received by:	SW	03/27/24	11:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093001				

Laboratory Data

SDG ID: GCQ36507
Phoenix ID: CQ36513

Project ID: OLSON DRIVE
Client ID: TB-18 (5-7)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		03/27/24	CV	SW846-%Solid
Extraction of ETPH	Completed				03/30/24	K/K	SW3546
Soil Extraction for SVOA PAH	Completed				03/29/24	H/A	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	3000	540	mg/Kg	10	04/02/24	JRB	CTETPH
Identification	**		mg/Kg	10	04/02/24	JRB	CTETPH
QA/QC Surrogates							
% COD (surr)	Diluted Out		%	10	04/02/24	JRB	50 - 150 %
% Terphenyl (surr)	Diluted Out		%	10	04/02/24	JRB	50 - 150 %
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	5.7	ug/Kg	1	03/28/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.7	ug/Kg	1	03/28/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.7	ug/Kg	1	03/28/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.7	ug/Kg	1	03/28/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.7	ug/Kg	1	03/28/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.7	ug/Kg	1	03/28/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	5.7	ug/Kg	1	03/28/24	JLI	SW8260D
Benzene	160	32	ug/Kg	50	03/28/24	JLI	SW8260D
Chlorobenzene	ND	5.7	ug/Kg	1	03/28/24	JLI	SW8260D
Ethylbenzene	ND	5.7	ug/Kg	1	03/28/24	JLI	SW8260D
Isopropylbenzene	ND	5.7	ug/Kg	1	03/28/24	JLI	SW8260D
m&p-Xylene	ND	5.7	ug/Kg	1	03/28/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	5.7	ug/Kg	1	03/28/24	JLI	SW8260D
Naphthalene	300	280	ug/Kg	50	03/28/24	JLI	SW8260D
n-Butylbenzene	ND	5.7	ug/Kg	1	03/28/24	JLI	SW8260D

Project ID: OLSON DRIVE
Client ID: TB-18 (5-7)

Phoenix I.D.: CQ36513

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	5.7	ug/Kg	1	03/28/24	JLI	SW8260D
o-Xylene	ND	5.7	ug/Kg	1	03/28/24	JLI	SW8260D
p-Isopropyltoluene	ND	5.7	ug/Kg	1	03/28/24	JLI	SW8260D
sec-Butylbenzene	ND	5.7	ug/Kg	1	03/28/24	JLI	SW8260D
Styrene	ND	5.7	ug/Kg	1	03/28/24	JLI	SW8260D
tert-Butylbenzene	ND	5.7	ug/Kg	1	03/28/24	JLI	SW8260D
Toluene	130	130	ug/Kg	50	03/28/24	JLI	SW8260D
Total Xylenes	ND	5.7	ug/Kg	1	03/28/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	03/28/24	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	03/28/24	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	03/28/24	JLI	70 - 130 %
% Toluene-d8	91		%	1	03/28/24	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	95		%	50	03/28/24	JLI	70 - 130 %
% Bromofluorobenzene (50x)	96		%	50	03/28/24	JLI	70 - 130 %
% Dibromofluoromethane (50x)	90		%	50	03/28/24	JLI	70 - 130 %
% Toluene-d8 (50x)	91		%	50	03/28/24	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	530	240	ug/Kg	1	03/30/24	MR	SW8270E
Acenaphthene	820	240	ug/Kg	1	03/30/24	MR	SW8270E
Acenaphthylene	11000	2400	ug/Kg	10	04/01/24	MR	SW8270E
Anthracene	11000	2400	ug/Kg	10	04/01/24	MR	SW8270E
Benz(a)anthracene	28000	2400	ug/Kg	10	04/01/24	MR	SW8270E
Benzo(a)pyrene	35000	2400	ug/Kg	10	04/01/24	MR	SW8270E
Benzo(b)fluoranthene	37000	2400	ug/Kg	10	04/01/24	MR	SW8270E
Benzo(ghi)perylene	20000	2400	ug/Kg	10	04/01/24	MR	SW8270E
Benzo(k)fluoranthene	11000	2400	ug/Kg	10	04/01/24	MR	SW8270E
Chrysene	23000	2400	ug/Kg	10	04/01/24	MR	SW8270E
Dibenz(a,h)anthracene	3800	240	ug/Kg	1	03/30/24	MR	SW8270E
Fluoranthene	49000	2400	ug/Kg	10	04/01/24	MR	SW8270E
Fluorene	3700	240	ug/Kg	1	03/30/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	23000	2400	ug/Kg	10	04/01/24	MR	SW8270E
Naphthalene	760	240	ug/Kg	1	03/30/24	MR	SW8270E
Phenanthrene	29000	2400	ug/Kg	10	04/01/24	MR	SW8270E
Pyrene	40000	2400	ug/Kg	10	04/01/24	MR	SW8270E
QA/QC Surrogates							
% 2-Fluorobiphenyl	75		%	1	03/30/24	MR	30 - 130 %
% Nitrobenzene-d5	74		%	1	03/30/24	MR	30 - 130 %
% Terphenyl-d14	54		%	1	03/30/24	MR	30 - 130 %

Project ID: OLSON DRIVE
Client ID: TB-18 (5-7)

Phoenix I.D.: CQ36513

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C16 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
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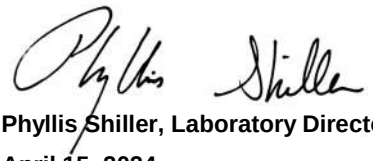

Phyllis Shiller, Laboratory Director

April 15, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 15, 2024

FOR: Attn: Mark Paulsson
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/26/24	13:55
Location Code:	TIGHE-DAS	Received by:	SW	03/27/24	11:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093001				

Laboratory Data

SDG ID: GCQ36507
Phoenix ID: CQ36514

Project ID: OLSON DRIVE
Client ID: TB-19 (5-7)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	97		%		03/27/24	CV	SW846-%Solid
Extraction of ETPH	Completed				03/30/24	K/K	SW3546
Soil Extraction for SVOA PAH	Completed				03/29/24	H/A	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	51	mg/Kg	1	04/01/24	JRB	CTETPH
Identification	ND		mg/Kg	1	04/01/24	JRB	CTETPH
QA/QC Surrogates							
% COD (surr)	108		%	1	04/01/24	JRB	50 - 150 %
% Terphenyl (surr)	106		%	1	04/01/24	JRB	50 - 150 %
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	5.2	ug/Kg	1	03/28/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.2	ug/Kg	1	03/28/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.2	ug/Kg	1	03/28/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.2	ug/Kg	1	03/28/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.2	ug/Kg	1	03/28/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.2	ug/Kg	1	03/28/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	5.2	ug/Kg	1	03/28/24	JLI	SW8260D
Benzene	ND	5.2	ug/Kg	1	03/28/24	JLI	SW8260D
Chlorobenzene	ND	5.2	ug/Kg	1	03/28/24	JLI	SW8260D
Ethylbenzene	ND	5.2	ug/Kg	1	03/28/24	JLI	SW8260D
Isopropylbenzene	ND	5.2	ug/Kg	1	03/28/24	JLI	SW8260D
m&p-Xylene	ND	5.2	ug/Kg	1	03/28/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	5.2	ug/Kg	1	03/28/24	JLI	SW8260D
Naphthalene	ND	5.2	ug/Kg	1	03/28/24	JLI	SW8260D
n-Butylbenzene	ND	5.2	ug/Kg	1	03/28/24	JLI	SW8260D

Project ID: OLSON DRIVE
Client ID: TB-19 (5-7)

Phoenix I.D.: CQ36514

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	5.2	ug/Kg	1	03/28/24	JLI	SW8260D
o-Xylene	ND	5.2	ug/Kg	1	03/28/24	JLI	SW8260D
p-Isopropyltoluene	ND	5.2	ug/Kg	1	03/28/24	JLI	SW8260D
sec-Butylbenzene	ND	5.2	ug/Kg	1	03/28/24	JLI	SW8260D
Styrene	ND	5.2	ug/Kg	1	03/28/24	JLI	SW8260D
tert-Butylbenzene	ND	5.2	ug/Kg	1	03/28/24	JLI	SW8260D
Toluene	ND	5.2	ug/Kg	1	03/28/24	JLI	SW8260D
Total Xylenes	ND	5.2	ug/Kg	1	03/28/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	03/28/24	JLI	70 - 130 %
% Bromofluorobenzene	88		%	1	03/28/24	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	03/28/24	JLI	70 - 130 %
% Toluene-d8	90		%	1	03/28/24	JLI	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	240	ug/Kg	1	03/30/24	KCA	SW8270E
Acenaphthene	ND	240	ug/Kg	1	03/30/24	KCA	SW8270E
Acenaphthylene	ND	240	ug/Kg	1	03/30/24	KCA	SW8270E
Anthracene	ND	240	ug/Kg	1	03/30/24	KCA	SW8270E
Benz(a)anthracene	ND	240	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(a)pyrene	ND	240	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(b)fluoranthene	ND	240	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(ghi)perylene	ND	240	ug/Kg	1	03/30/24	KCA	SW8270E
Benzo(k)fluoranthene	ND	240	ug/Kg	1	03/30/24	KCA	SW8270E
Chrysene	ND	240	ug/Kg	1	03/30/24	KCA	SW8270E
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	03/30/24	KCA	SW8270E
Fluoranthene	ND	240	ug/Kg	1	03/30/24	KCA	SW8270E
Fluorene	ND	240	ug/Kg	1	03/30/24	KCA	SW8270E
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	1	03/30/24	KCA	SW8270E
Naphthalene	ND	240	ug/Kg	1	03/30/24	KCA	SW8270E
Phenanthrene	ND	240	ug/Kg	1	03/30/24	KCA	SW8270E
Pyrene	ND	240	ug/Kg	1	03/30/24	KCA	SW8270E
QA/QC Surrogates							
% 2-Fluorobiphenyl	64		%	1	03/30/24	KCA	30 - 130 %
% Nitrobenzene-d5	65		%	1	03/30/24	KCA	30 - 130 %
% Terphenyl-d14	58		%	1	03/30/24	KCA	30 - 130 %

Project ID: OLSON DRIVE
Client ID: TB-19 (5-7)

Phoenix I.D.: CQ36514

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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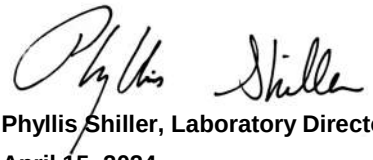

Phyllis Shiller, Laboratory Director

April 15, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 15, 2024

FOR: Attn: Mark Paulsson
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/26/24	16:40
Location Code:	TIGHE-DAS	Received by:	SW	03/27/24	11:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093001				

Laboratory Data

SDG ID: GCQ36507
Phoenix ID: CQ36516

Project ID: OLSON DRIVE
Client ID: MW-1 (19-20)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	03/28/24	TH	SW6010D
Arsenic	4.16	0.76	mg/Kg	1	03/28/24	TH	SW6010D
Barium	50.5	0.38	mg/Kg	1	03/28/24	TH	SW6010D
Beryllium	0.74	0.30	mg/Kg	1	03/28/24	TH	SW6010D
Cadmium	1.68	0.38	mg/Kg	1	03/28/24	TH	SW6010D
Chromium	20.3	0.38	mg/Kg	1	03/28/24	TH	SW6010D
Copper	41.7	0.8	mg/kg	1	03/28/24	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2.2	03/28/24	GW	SW7471B
Nickel	16.9	0.38	mg/Kg	1	03/28/24	TH	SW6010D
Lead	11.2	0.38	mg/Kg	1	03/28/24	TH	SW6010D
Antimony	< 3.8	3.8	mg/Kg	1	03/28/24	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	03/28/24	TH	SW6010D
SPLP Beryllium	< 0.001	0.001	mg/L	1	04/11/24	TH	SW6010D
SPLP Chromium	0.015	0.010	mg/L	1	04/11/24	TH	SW6010D
SPLP Vanadium	0.029	0.010	mg/L	1	04/11/24	TH	SW6010D
Thallium	< 3.4	3.4	mg/Kg	1	03/28/24	TH	SW6010D
SPLP Metals Digestion	Completed				04/11/24	AL/AL	SW3010A
Vanadium	36.2	0.38	mg/Kg	1	03/28/24	TH	SW6010D
Zinc	245	0.8	mg/Kg	1	03/28/24	TH	SW6010D
Percent Solid	80		%		03/27/24	CV	SW846-%Solid
Mercury Digestion	Completed				03/28/24	HL/HL	SW7471B
Extraction of ETPH	Completed				03/30/24	K/K	SW3546
Soil Extraction for PCB	Completed				03/29/24	H/A	SW3546
Soil Extraction for SVOA PAH	Completed				04/02/24	AC1/AC1	SW3546
SPLP Extraction for Metals	Completed				04/10/24	AL	SW1312
Total Metals Digest	Completed				03/27/24	J/AG	SW3050B

Project ID: OLSON DRIVE
Client ID: MW-1 (19-20)

Phoenix I.D.: CQ36516

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	61	mg/Kg	1	04/01/24	JRB	CTETPH
Identification	ND		mg/Kg	1	04/01/24	JRB	CTETPH
QA/QC Surrogates							
% COD (surr)	81		%	1	04/01/24	JRB	50 - 150 %
% Terphenyl (surr)	87		%	1	04/01/24	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	410	ug/Kg	10	04/02/24	SC	SW8082A
PCB-1221	ND	410	ug/Kg	10	04/02/24	SC	SW8082A
PCB-1232	ND	410	ug/Kg	10	04/02/24	SC	SW8082A
PCB-1242	ND	410	ug/Kg	10	04/02/24	SC	SW8082A
PCB-1248	ND	410	ug/Kg	10	04/02/24	SC	SW8082A
PCB-1254	ND	410	ug/Kg	10	04/02/24	SC	SW8082A
PCB-1260	ND	410	ug/Kg	10	04/02/24	SC	SW8082A
PCB-1262	ND	410	ug/Kg	10	04/02/24	SC	SW8082A
PCB-1268	ND	410	ug/Kg	10	04/02/24	SC	SW8082A
QA/QC Surrogates							
% DCBP	94		%	10	04/02/24	SC	30 - 150 %
% DCBP (Confirmation)	91		%	10	04/02/24	SC	30 - 150 %
% TCMX	76		%	10	04/02/24	SC	30 - 150 %
% TCMX (Confirmation)	78		%	10	04/02/24	SC	30 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	290	ug/Kg	1	04/02/24	MR	SW8270E
Acenaphthene	ND	290	ug/Kg	1	04/02/24	MR	SW8270E
Acenaphthylene	ND	290	ug/Kg	1	04/02/24	MR	SW8270E
Anthracene	ND	290	ug/Kg	1	04/02/24	MR	SW8270E
Benz(a)anthracene	ND	290	ug/Kg	1	04/02/24	MR	SW8270E
Benzo(a)pyrene	ND	290	ug/Kg	1	04/02/24	MR	SW8270E
Benzo(b)fluoranthene	ND	290	ug/Kg	1	04/02/24	MR	SW8270E
Benzo(ghi)perylene	690	290	ug/Kg	1	04/02/24	MR	SW8270E
Benzo(k)fluoranthene	ND	290	ug/Kg	1	04/02/24	MR	SW8270E
Chrysene	ND	290	ug/Kg	1	04/02/24	MR	SW8270E
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	04/02/24	MR	SW8270E
Fluoranthene	ND	290	ug/Kg	1	04/02/24	MR	SW8270E
Fluorene	ND	290	ug/Kg	1	04/02/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	530	290	ug/Kg	1	04/02/24	MR	SW8270E
Naphthalene	ND	290	ug/Kg	1	04/02/24	MR	SW8270E
Phenanthrene	ND	290	ug/Kg	1	04/02/24	MR	SW8270E
Pyrene	ND	290	ug/Kg	1	04/02/24	MR	SW8270E
QA/QC Surrogates							
% 2-Fluorobiphenyl	71		%	1	04/02/24	MR	30 - 130 %
% Nitrobenzene-d5	84		%	1	04/02/24	MR	30 - 130 %
% Terphenyl-d14	87		%	1	04/02/24	MR	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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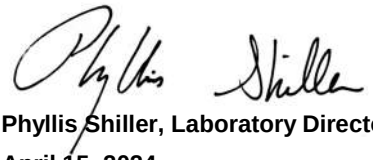


Phyllis Shiller, Laboratory Director

April 15, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

QA/QC Report

April 15, 2024

QA/QC Data

SDG I.D.: GCQ36507

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 724238 (mg/kg), QC Sample No: CQ36516 2X (CQ36516)													
Mercury - Soil	BRL	0.03	<0.03	0.05	NC	90.8	96.9	6.5	89.1	84.5	5.3	70 - 130	30
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.													
QA/QC Batch 726356 (mg/L), QC Sample No: CQ33408 (CQ36516)													
ICP Metals - SPLP Extraction													
Beryllium	BRL	0.001	<0.001	<0.001	NC	96.6	95.6	1.0	95.7			80 - 120	20
Chromium	BRL	0.010	<0.010	<0.010	NC	95.3	94.5	0.8	94.5			80 - 120	20
Vanadium	BRL	0.010	<0.010	<0.010	NC	95.1	94.6	0.5	94.7			80 - 120	20
Comment:													
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.													
QA/QC Batch 724140 (mg/kg), QC Sample No: CQ36516 (CQ36516)													
ICP Metals - Soil													
Antimony	BRL	3.3	<3.8	<3.9	NC	89.6	99.3	10.3	86.0			75 - 125	35
Arsenic	BRL	0.67	4.16	3.80	NC	85.4	91.8	7.2	89.4			75 - 125	35
Barium	BRL	0.33	50.5	47.2	6.80	99.6	104	4.3	107			75 - 125	35
Beryllium	BRL	0.27	0.74	0.69	NC	92.2	98.3	6.4	98.3			75 - 125	35
Cadmium	BRL	0.33	1.68	1.53	NC	94.7	103	8.4	99.5			75 - 125	35
Chromium	BRL	0.33	20.3	19.1	6.10	95.9	104	8.1	101			75 - 125	35
Copper	BRL	0.67	41.7	39.2	6.20	90.3	96.7	6.8	102			75 - 125	35
Lead	BRL	0.33	11.2	10.7	4.60	93.6	102	8.6	101			75 - 125	35
Nickel	BRL	0.33	16.9	15.9	6.10	93.1	102	9.1	99.4			75 - 125	35
Selenium	BRL	1.3	<1.5	<1.5	NC	83.7	89.2	6.4	78.8			75 - 125	35
Silver	BRL	0.33	<0.38	<0.39	NC	94.0	103	9.1	95.5			75 - 125	35
Thallium	BRL	3.0	<3.4	<3.5	NC	94.0	102	8.2	96.0			75 - 125	35
Vanadium	BRL	0.33	36.2	33.5	7.70	91.2	98.7	7.9	99.2			75 - 125	35
Zinc	BRL	0.67	245	213	14.0	88.3	97.7	10.1	109			75 - 125	35
Comment:													
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.													

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

QA/QC Report

April 15, 2024

QA/QC Data

SDG I.D.: GCQ36507

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 724672 (mg/Kg), QC Sample No: CQ36507 (CQ36507, CQ36508, CQ36509, CQ36510, CQ36511, CQ36512, CQ36513, CQ36514, CQ36516)										
TPH by GC (Extractable Products) - Soil										
Ext. Petroleum H.C. (C9-C36)	ND	50	89	91	2.2	83	84	1.2	60 - 120	30
% COD (surr)	71	%	117	104	11.8	81	94	14.9	50 - 150	30
% Terphenyl (surr)	77	%	89	91	2.2	76	80	5.1	50 - 150	30
Comment:										
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.										
QA/QC Batch 724638 (ug/Kg), QC Sample No: CQ36516 2X (CQ36516)										
Polychlorinated Biphenyls - Soil										
PCB-1016	ND	33	87	89	2.3	82	79	3.7	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	96	102	6.1	90	75	18.2	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	101	%	103	95	8.1	90	97	7.5	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	107	%	101	102	1.0	80	77	3.8	30 - 150	30
% TCMX (Surrogate Rec)	86	%	87	85	2.3	79	74	6.5	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	85	%	81	82	1.2	76	74	2.7	30 - 150	30
QA/QC Batch 724918 (ug/kg), QC Sample No: CQ36308 (CQ36516)										
Polynuclear Aromatic HC - Soil										
2-Methylnaphthalene	ND	230	73	70	4.2				40 - 140	30
Acenaphthene	ND	230	68	68	0.0				30 - 130	30
Acenaphthylene	ND	230	66	66	0.0				40 - 140	30
Anthracene	ND	230	76	77	1.3				40 - 140	30
Benz(a)anthracene	ND	230	76	77	1.3				40 - 140	30
Benzo(a)pyrene	ND	230	84	82	2.4				40 - 140	30
Benzo(b)fluoranthene	ND	230	77	74	4.0				40 - 140	30
Benzo(ghi)perylene	ND	230	77	78	1.3				40 - 140	30
Benzo(k)fluoranthene	ND	230	78	77	1.3				40 - 140	30
Chrysene	ND	230	76	75	1.3				40 - 140	30
Dibenz(a,h)anthracene	ND	230	80	78	2.5				40 - 140	30
Fluoranthene	ND	230	78	74	5.3				40 - 140	30
Fluorene	ND	230	74	75	1.3				40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	85	84	1.2				40 - 140	30
Naphthalene	ND	230	64	59	8.1				40 - 140	30
Phenanthrene	ND	230	74	74	0.0				40 - 140	30

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Pyrene	ND	230	78	74	5.3				30 - 130	30
% 2-Fluorobiphenyl	79	%	65	62	4.7				30 - 130	30
% Nitrobenzene-d5	91	%	69	65	6.0				30 - 130	30
% Terphenyl-d14	84	%	70	68	2.9				30 - 130	30

Comment:

This batch consists of a Blank, LCS and LCSD.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 724570 (ug/kg), QC Sample No: CQ38282 (CQ36507, CQ36508, CQ36509, CQ36510, CQ36511, CQ36512, CQ36513, CQ36514)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	71	66	7.3	73	75	2.7	40 - 140	30
Acenaphthene	ND	230	66	61	7.9	67	70	4.4	30 - 130	30
Acenaphthylene	ND	230	66	61	7.9	65	69	6.0	40 - 140	30
Anthracene	ND	230	76	67	12.6	76	78	2.6	40 - 140	30
Benz(a)anthracene	ND	230	82	72	13.0	81	83	2.4	40 - 140	30
Benzo(a)pyrene	ND	230	82	73	11.6	83	85	2.4	40 - 140	30
Benzo(b)fluoranthene	ND	230	73	66	10.1	73	76	4.0	40 - 140	30
Benzo(ghi)perylene	ND	230	80	70	13.3	79	83	4.9	40 - 140	30
Benzo(k)fluoranthene	ND	230	75	67	11.3	76	77	1.3	40 - 140	30
Chrysene	ND	230	87	77	12.2	85	88	3.5	40 - 140	30
Dibenz(a,h)anthracene	ND	230	76	67	12.6	76	80	5.1	40 - 140	30
Fluoranthene	ND	230	71	63	11.9	73	74	1.4	40 - 140	30
Fluorene	ND	230	72	67	7.2	74	77	4.0	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	84	73	14.0	84	87	3.5	40 - 140	30
Naphthalene	ND	230	62	58	6.7	65	68	4.5	40 - 140	30
Phenanthrene	ND	230	73	65	11.6	73	76	4.0	40 - 140	30
Pyrene	ND	230	69	62	10.7	73	74	1.4	30 - 130	30
% 2-Fluorobiphenyl	66	%	65	60	8.0	64	68	6.1	30 - 130	30
% Nitrobenzene-d5	66	%	60	56	6.9	67	70	4.4	30 - 130	30
% Terphenyl-d14	62	%	60	54	10.5	64	64	0.0	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 726467 (ug/L), QC Sample No: CQ47685 (CQ36509)

Semivolatiles by SIM, PAH - SPLP

2-Methylnaphthalene	ND	0.50	52	61	15.9				30 - 130	20
Acenaphthene	ND	0.50	59	70	17.1				30 - 130	20
Acenaphthylene	ND	0.10	56	67	17.9				30 - 130	20
Anthracene	ND	0.10	75	81	7.7				30 - 130	20
Benz(a)anthracene	ND	0.05	82	89	8.2				30 - 130	20
Benzo(a)pyrene	ND	0.05	86	91	5.6				30 - 130	20
Benzo(b)fluoranthene	ND	0.05	78	85	8.6				30 - 130	20
Benzo(ghi)perylene	ND	0.02	64	69	7.5				30 - 130	20
Benzo(k)fluoranthene	ND	0.05	91	95	4.3				30 - 130	20
Chrysene	ND	0.05	75	79	5.2				30 - 130	20
Dibenz(a,h)anthracene	ND	0.02	76	82	7.6				30 - 130	20
Fluoranthene	ND	0.50	76	81	6.4				30 - 130	20
Fluorene	ND	0.10	67	76	12.6				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.05	80	89	10.7				30 - 130	20
Naphthalene	ND	0.50	48	56	15.4				30 - 130	20

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Phenanthrene	ND	0.06	62	68	9.2				30 - 130	20	
Pyrene	ND	0.07	77	81	5.1				30 - 130	20	
% 2-Fluorobiphenyl	60	%	54	65	18.5				30 - 130	20	
% Nitrobenzene-d5	60	%	66	80	19.2				30 - 130	20	
% Terphenyl-d14	72	%	68	72	5.7				30 - 130	20	

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Dried up SPLP BLK

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 724522 (ug/kg), QC Sample No: CQ36712 (CQ36509, CQ36513)

Volatiles - Soil (Low Level)

1,2,3-Trichlorobenzene	ND	5.0	102	101	1.0	63	52	19.1	70 - 130	30	m
1,2,4-Trichlorobenzene	ND	5.0	98	97	1.0	68	58	15.9	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	1.0	99	97	2.0	94	90	4.3	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	103	99	4.0	94	89	5.5	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	99	96	3.1	93	89	4.4	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	98	96	2.1	91	87	4.5	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	102	99	3.0	94	89	5.5	70 - 130	30	
Benzene	ND	1.0	95	93	2.1	91	90	1.1	70 - 130	30	
Chlorobenzene	ND	5.0	98	96	2.1	95	92	3.2	70 - 130	30	
Ethylbenzene	ND	1.0	94	93	1.1	90	86	4.5	70 - 130	30	
Isopropylbenzene	ND	1.0	101	98	3.0	100	98	2.0	70 - 130	30	
m&p-Xylene	ND	2.0	93	92	1.1	87	84	3.5	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	92	91	1.1	90	90	0.0	70 - 130	30	
n-Butylbenzene	ND	1.0	103	100	3.0	78	69	12.2	70 - 130	30	m
n-Propylbenzene	ND	1.0	100	97	3.0	97	91	6.4	70 - 130	30	
o-Xylene	ND	2.0	96	95	1.0	90	87	3.4	70 - 130	30	
p-Isopropyltoluene	ND	1.0	101	98	3.0	86	78	9.8	70 - 130	30	
sec-Butylbenzene	ND	1.0	100	97	3.0	84	76	10.0	70 - 130	30	
Styrene	ND	5.0	92	91	1.1	86	83	3.6	70 - 130	30	
tert-Butylbenzene	ND	1.0	101	98	3.0	93	86	7.8	70 - 130	30	
Toluene	ND	1.0	96	94	2.1	91	87	4.5	70 - 130	30	
% 1,2-dichlorobenzene-d4	95	%	101	99	2.0	99	100	1.0	70 - 130	30	
% Bromofluorobenzene	96	%	98	98	0.0	96	94	2.1	70 - 130	30	
% Dibromofluoromethane	92	%	92	94	2.2	93	92	1.1	70 - 130	30	
% Toluene-d8	90	%	97	98	1.0	96	94	2.1	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 724281 (ug/kg), QC Sample No: CQ36835 (CQ36507, CQ36508, CQ36510, CQ36511, CQ36512, CQ36514)

Volatiles - Soil (Low Level)

1,2,3-Trichlorobenzene	ND	5.0	99	98	1.0	67	65	3.0	70 - 130	30	m
1,2,4-Trichlorobenzene	ND	5.0	93	90	3.3	69	66	4.4	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	1.0	100	99	1.0	82	80	2.5	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	104	102	1.9	92	88	4.4	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	101	98	3.0	93	101	8.2	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	99	96	3.1	90	86	4.5	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	101	100	1.0	92	88	4.4	70 - 130	30	
Benzene	ND	1.0	99	100	1.0	99	95	4.1	70 - 130	30	
Chlorobenzene	ND	5.0	101	100	1.0	100	95	5.1	70 - 130	30	

QA/QC Data

SDG I.D.: GCQ36507

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Ethylbenzene	ND	1.0	98	97	1.0	86	103	18.0	70 - 130	30	
Isopropylbenzene	ND	1.0	105	103	1.9	107	104	2.8	70 - 130	30	
m&p-Xylene	ND	2.0	96	95	1.0	90	87	3.4	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	97	98	1.0	94	90	4.3	70 - 130	30	
Naphthalene	ND	5.0	105	105	0.0	72	71	1.4	70 - 130	30	
n-Butylbenzene	ND	1.0	104	100	3.9	97	94	3.1	70 - 130	30	
n-Propylbenzene	ND	1.0	103	100	3.0	102	102	0.0	70 - 130	30	
o-Xylene	ND	2.0	98	98	0.0	75	109	37.0	70 - 130	30	r
p-Isopropyltoluene	ND	1.0	104	100	3.9	105	99	5.9	70 - 130	30	
sec-Butylbenzene	ND	1.0	104	101	2.9	104	101	2.9	70 - 130	30	
Styrene	ND	5.0	92	93	1.1	86	83	3.6	70 - 130	30	
tert-Butylbenzene	ND	1.0	105	103	1.9	109	103	5.7	70 - 130	30	
Toluene	ND	1.0	100	100	0.0	99	98	1.0	70 - 130	30	
% 1,2-dichlorobenzene-d4	94	%	100	100	0.0	100	100	0.0	70 - 130	30	
% Bromofluorobenzene	96	%	97	98	1.0	97	98	1.0	70 - 130	30	
% Dibromofluoromethane	94	%	92	93	1.1	93	92	1.1	70 - 130	30	
% Toluene-d8	90	%	98	99	1.0	98	96	2.1	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 724281H (ug/kg), QC Sample No: CQ36835 50X (CQ36509 (50X) , CQ36513 (50X))

Volatiles - Soil (High Level)

Benzene	ND	250	97	99	2.0	100	100	0.0	70 - 130	30	
Naphthalene	ND	250	102	104	1.9	107	108	0.9	70 - 130	30	
Toluene	ND	250	98	100	2.0	100	102	2.0	70 - 130	30	
% 1,2-dichlorobenzene-d4	95	%	100	99	1.0	101	101	0.0	70 - 130	30	
% Bromofluorobenzene	97	%	98	97	1.0	98	98	0.0	70 - 130	30	
% Dibromofluoromethane	91	%	93	90	3.3	92	91	1.1	70 - 130	30	
% Toluene-d8	92	%	99	99	0.0	99	98	1.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
April 15, 2024

Monday, April 15, 2024

Criteria: CT: GAM, RC

State: CT

Sample Criteria Exceedances Report

GCQ36507 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CQ36507	$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1600	240	1000	1000	ug/Kg
CQ36507	$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1600	240	1000	1000	ug/Kg
CQ36507	$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1500	240	1000	1000	ug/Kg
CQ36507	$8100SMR	Benz(a)anthracene	CT / RSR GA (mg/kg) / Semivolatiles	1500	240	1000	1000	ug/Kg
CQ36507	$8100SMR	Benzo(a)pyrene	CT / RSR GA (mg/kg) / Semivolatiles	1600	240	1000	1000	ug/Kg
CQ36507	$8100SMR	Benzo(b)fluoranthene	CT / RSR GA (mg/kg) / Semivolatiles	1600	240	1000	1000	ug/Kg
CQ36507	$8100SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	1500	240	1000	1000	ug/Kg
CQ36509	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	1500	250	1000	1000	ug/Kg
CQ36509	$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3600	250	1000	1000	ug/Kg
CQ36509	$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	4100	250	1000	1000	ug/Kg
CQ36509	$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	4500	250	1000	1000	ug/Kg
CQ36509	$8100SMR	Pyrene	CT / RSR GA (mg/kg) / Semivolatiles	5200	250	4000	4000	ug/Kg
CQ36509	$8100SMR	Benz(a)anthracene	CT / RSR GA (mg/kg) / Semivolatiles	4500	250	1000	1000	ug/Kg
CQ36509	$8100SMR	Benzo(b)fluoranthene	CT / RSR GA (mg/kg) / Semivolatiles	4100	250	1000	1000	ug/Kg
CQ36509	$8100SMR	Benzo(k)fluoranthene	CT / RSR GA (mg/kg) / Semivolatiles	1400	250	1000	1000	ug/Kg
CQ36509	$8100SMR	Fluoranthene	CT / RSR GA (mg/kg) / Semivolatiles	6200	250	5600	5600	ug/Kg
CQ36509	$8100SMR	Phenanthrene	CT / RSR GA (mg/kg) / Semivolatiles	6900	250	4000	4000	ug/Kg
CQ36509	$8100SMR	Benzo(a)pyrene	CT / RSR GA (mg/kg) / Semivolatiles	3600	250	1000	1000	ug/Kg
CQ36509	$8100SMR	Benzo(ghi)perylene	CT / RSR GA,GAA (mg/kg) / APS Organics	1300	250	1000	1000	ug/Kg
CQ36509	$8100SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	4400	250	1000	1000	ug/Kg
CQ36509	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GA,GAA (mg/kg) / APS Organics	1500	250	1000	1000	ug/Kg
CQ36513	$8020-MAR	Benzene	CT / RSR GA (mg/kg) / Volatiles	160	32	20	20	ug/Kg
CQ36513	$8100SMR	Acenaphthylene	CT / RSR GA (mg/kg) / Semivolatiles	11000	2400	8400	8400	ug/Kg
CQ36513	$8100SMR	Phenanthrene	CT / RSR GA (mg/kg) / Semivolatiles	29000	2400	4000	4000	ug/Kg
CQ36513	$8100SMR	Fluoranthene	CT / RSR GA (mg/kg) / Semivolatiles	49000	2400	5600	5600	ug/Kg
CQ36513	$8100SMR	Pyrene	CT / RSR GA (mg/kg) / Semivolatiles	40000	2400	4000	4000	ug/Kg
CQ36513	$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	28000	2400	1000	1000	ug/Kg
CQ36513	$8100SMR	Benz(a)anthracene	CT / RSR GA (mg/kg) / Semivolatiles	28000	2400	1000	1000	ug/Kg
CQ36513	$8100SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	23000	2400	1000	1000	ug/Kg
CQ36513	$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	37000	2400	1000	1000	ug/Kg
CQ36513	$8100SMR	Benzo(b)fluoranthene	CT / RSR GA (mg/kg) / Semivolatiles	37000	2400	1000	1000	ug/Kg
CQ36513	$8100SMR	Benzo(k)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	11000	2400	8400	8400	ug/Kg
CQ36513	$8100SMR	Benzo(k)fluoranthene	CT / RSR GA (mg/kg) / Semivolatiles	11000	2400	1000	1000	ug/Kg
CQ36513	$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	35000	2400	1000	1000	ug/Kg
CQ36513	$8100SMR	Benzo(a)pyrene	CT / RSR GA (mg/kg) / Semivolatiles	35000	2400	1000	1000	ug/Kg
CQ36513	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	23000	2400	1000	1000	ug/Kg
CQ36513	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GA,GAA (mg/kg) / APS Organics	23000	2400	1000	1000	ug/Kg
CQ36513	$8100SMR	Dibenz(a,h)anthracene	CT / RSR DEC RES (mg/kg) / APS Organics	3800	240	1000	1000	ug/Kg
CQ36513	$8100SMR	Dibenz(a,h)anthracene	CT / RSR GA,GAA (mg/kg) / APS Organics	3800	240	1000	1000	ug/Kg
CQ36513	$8100SMR	Benzo(ghi)perylene	CT / RSR DEC RES (mg/kg) / APS Organics	20000	2400	8400	8400	ug/Kg

Monday, April 15, 2024

Criteria: CT: GAM, RC

State: CT

Sample Criteria Exceedances Report

GCQ36507 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CQ36513	$8100SMR	Benzo(ghi)perylene	CT / RSR GA,GAA (mg/kg) / APS Organics	20000	2400	1000	1000	ug/Kg
CQ36513	$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	3000	540	500	500	mg/Kg
CQ36513	$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR GA (mg/kg) / Pesticides/TPH	3000	540	500	500	mg/Kg

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. ***Client:***

Project Location: OLSON DRIVE ***Project Number:***

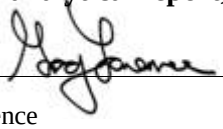
Laboratory Sample ID(s): CQ36507-CQ36514, CQ36516 ***Sampling Date(s):*** 3/26/2024

List RCP Methods Used (e.g., 8260, 8270, et cetera) 1311/1312, 6010, 7470/7471, 8082, 8260, 8270, ETPH

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)**	☐ Yes ☐ No ☑ NA
2	**Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?**	☑ Yes ☐ No
3	**Were samples received at an appropriate temperature (< 6 Degrees C)?**	☑ Yes ☐ No ☐ NA
4	**Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?**	☑ Yes ☐ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?** **b) Were these reporting limits met?**	☑ Yes ☐ No ☑ Yes ☐ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☐ Yes ☑ No
7	**Are project-specific matrix spikes and laboratory duplicates included in the data set?**	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:  **Position:** Assistant Lab Director

Printed Name: Greg Lawrence **Date:** Monday, April 15, 2024

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

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RCP Certification Report

April 15, 2024

SDG I.D.: GCQ36507

SDG Comments

8260 Volatile Organics:
The client requested a short list for 8260 RCP Volatiles. Only the volatile aromatic constituents are reported as requested on the chain-of-custody.

8270 Semi-volatile Organics:
The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

SPLP Semi-volatile Organics:
Only the PAH constituents are reported as requested on the chain-of-custody. In order to achieve the requested reporting levels for the target compounds, the sample was extracted and analyzed via 8270 selective ion monitoring (SIM).

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-FID1 04/01/24-1 Jeff Bucko, Chemist 04/01/24

CQ36507 (5X), CQ36509 (5X)

The initial calibration (ET_201I) RSD for the compound list was less than 30% except for the following compounds: None.
As per section 7.2.3, a discrimination check standard was run (401A003) and contained the following outliers: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID21 04/01/24-1 Jeff Bucko, Chemist 04/01/24

CQ36513 (10X)

The initial calibration (ETPH130I) RSD for the compound list was less than 30% except for the following compounds: None.
As per section 7.2.3, a discrimination check standard was run (401A003_1) and contained the following outliers: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID84 04/01/24-1 Jeff Bucko, Chemist 04/01/24

CQ36508 (1X), CQ36510 (1X), CQ36511 (1X), CQ36512 (1X), CQ36514 (1X), CQ36516 (1X)

The initial calibration (ET_325AI) RSD for the compound list was less than 30% except for the following compounds: None.
As per section 7.2.3, a discrimination check standard was run (401A003) and contained the following outliers: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:
Samples: CQ36512, CQ36514, CQ36516
Preceding CC 401A016 - None.
Succeeding CC 401A028 - ETPH (C9-C36) 47%H (30%)

QC (Site Specific):

Batch 724672 (CQ36507)

CQ36507, CQ36508, CQ36509, CQ36510, CQ36511, CQ36512, CQ36513, CQ36514, CQ36516

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 50 - 150 with the following exceptions: None.
All MSD recoveries were within 50 - 150 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been

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RCP Certification Report

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SDG I.D.: GCQ36507

ETPH Narration

normalized based on the alkane calibration.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 03/28/24 09:37 Grace White, Chemist 03/28/24

CQ36516

The method preparation blank, ICB, and CCBs contain all of the acids and reagents as the samples.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

QC (Site Specific):

Batch 724238 (CQ36516)

CQ36516

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.
All MSD recoveries were within 75 - 125 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS 04/11/24 10:43 Tina Hall, Chemist 04/11/24

CQ36516

Additional criteria for CCV and ICSAB:
Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB).The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS-2 03/28/24 11:58 Tina Hall, Chemist 03/28/24

CQ36516

The linear range is defined daily by the calibration range.

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Certification Report

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SDG I.D.: GCQ36507

ICP Metals Narration

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 726356 (CQ33408)

CQ36516

All LCS recoveries were within 80 - 120 with the following exceptions: None.
All LCSD recoveries were within 80 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QC (Site Specific):

Batch 724140 (CQ36516)

CQ36516

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All LCSD recoveries were within 75 - 125 with the following exceptions: None.
All LCS/LCSD RPDs were less than 35% with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD29 04/02/24-1 Saadia Chudary, Chemist 04/02/24

CQ36516 (10X)

The initial calibration (PC0306AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC0306BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

QC (Site Specific):

Batch 724638 (CQ36516)

CQ36516

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 40 - 140 with the following exceptions: None.
All MSD recoveries were within 40 - 140 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

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SDG I.D.: GCQ36507

SVOA Narration

Instrument:

CHEM07 04/02/24-1 Matt Richard, Chemist 04/02/24

CQ36516 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM07/7_BNa_0321):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM07/0402_05-7_BNa_0321):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM28 04/01/24-1 Matt Richard, Chemist 04/01/24

CQ36513 (10X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM28/28_BNA_0318):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM28/0401_06-28_BNA_0318):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM29 03/29/24-1 Robert Looney, Chemist 03/29/24

CQ36507 (1X), CQ36508 (1X), CQ36509 (1X), CQ36510 (1X), CQ36511 (1X), CQ36512 (1X), CQ36513 (1X), CQ36514 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM29/29_BNa_0321):

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RCP Certification Report

April 15, 2024

SDG I.D.: GCQ36507

SVOA Narration

100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM29/0329_07-29_BNa_0321):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 724570 (CQ38282)

CQ36507, CQ36508, CQ36509, CQ36510, CQ36511, CQ36512, CQ36513, CQ36514

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 724918 (CQ36308)

CQ36516

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
This batch consists of a Blank, LCS and LCSD.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM33 04/12/24-1 Matt Richard, Chemist 04/12/24

CQ36509 (1X)

Initial Calibration Evaluation (CHEM33/33_PAHSIM_0325):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM33/0412_03-33_PAHSIM_0325):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.

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RCP Certification Report

April 15, 2024

SDG I.D.: GCQ36507

SVOASIM Narration

The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 726467 (CQ47685)

CQ36509

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Dried up SPLP BLK
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM14 03/27/24-2 Jane Li, Chemist 03/27/24

CQ36507 (1X), CQ36508 (1X), CQ36509 (50X), CQ36510 (1X), CQ36511 (1X), CQ36512 (1X), CQ36513 (50X), CQ36514 (1X)

Initial Calibration Evaluation (CHEM14/VT031824):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet Table 4 recommended minimum response factors: None.
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM14/0327_34-VT031824):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM14 03/28/24-1 Jane Li, Chemist 03/28/24

CQ36509 (1X), CQ36513 (1X)

Initial Calibration Evaluation (CHEM14/VT031824):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet Table 4 recommended minimum response factors: None.
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM14/0328_02-VT031824):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.

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NY # 11301

RCP Certification Report

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SDG I.D.: GCQ36507

VOA Narration

The following compounds did not meet Table 4 recommended minimum response factors: None.

QC (Batch Specific):

Batch 724281 (CQ36835) CHEM14 3/27/2024-2

CQ36507(1X), CQ36508(1X), CQ36510(1X), CQ36511(1X), CQ36512(1X), CQ36514(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 724281H (CQ36835) CHEM14 3/27/2024-2

CQ36509(50X), CQ36513(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 724522 (CQ36712) CHEM14 3/28/2024-1

CQ36509(1X), CQ36513(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Temperature Narration

The samples were received at 2.6C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes ☑ No ☐
Coolant: IPK ☑ ICE ☐ No ☐
Temp 2.6 °C Pg of

PHOENIX Environmental Laboratories, Inc.

CT/MA/RI CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: makrina@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

Data Delivery/Contact Options:
☐ Fax: _____
☐ Phone: _____
☐ Email: _____

Customer: Tighe & Bond
Address: 213 Court St, Suite 1100
Middletown, CT, 06457

Project: Olson Drive
Report to: Mark Paulson, Z. Hawk, B. Sirowich, J. Libby, B. Giroux
Invoice to: Tighe & Bond Westfield
Quote # DAS Rates

Project P.O: 105093001

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: BS Date: 3/26/24

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = _____(Other)

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	*MS/MSD (May be billable at analysis unit rate)	ETPH	AVOC	PAH	RSR Metals	PCBs	GL Amber 8 oz. [ ] w/H_3PO_4 [ ] $NAHSO_4$	Soil VOA Vials [X] methanol [X] H_2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H_2SO_4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H_2SO_4 [ ] 250ml [ ] 500ml	PL HNO_3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
36507	TB-12 (7-9)	S	3/26/24	1325		X	X					3	1									
36508	TB-13 (7-9)			1330		X	X					3	1									
36509	TB-14 (7-9)			1335		X	X					3	1									
36510	TB-15 (7-9)			1340		X	X					3	1									
(*) 36511	TB-16 (5-7)			1345		X	X					3	1									
36512	TB-17 (5-7)			1350		X	X					3	1									
36513	TB-18 (5-7)			1400		X	X					3	1									
36514	TB-19 (5-7)			1355		X	X					3	1									
36515	MW-1 (9-10)			1630	MSX		MSX	MSX	MSX				1									
36516	MW-1 (19-20)			1640	X		X	X	X				1									

Relinquished by:	Accepted by:	Date:	Time:
BS	T&B Fridge	3/26/24	1800
T&B Fridge	Heather Lawrence	3.27.24	10:33
Heather Lawrence	[signature]	3/27/24	11:26

Comments, Special Requirements or Regulations:

RL for PCB must be <0.5

PLEASE: Hold MW-1 (9-10) sample for potential future analysis

Turnaround Time:
☐ 1 Day* ☒ Standard
☐ 2 Days* ☐ Other
☐ 3 Days*
☐ 4 Days*
☐ 5 Days*

RI
☐ RES DEC
☐ I/C DEC
☐ GA Leachability
☐ GB Leachability
☐ GA -GW Objectives
☐ GB -GW Objectives
☐ Other

CT
☒ RCP Cert
☐ GWPC
☐ SWPC
☒ GA PMC
☐ GB PMC
☐ SWPC
☒ RES DEC
☐ I/C DEC

MA
☐ MCP Certification
☐ GW-1 ☐ RCS-1 / RCGW-1
☐ GW-2 ☐ RCS-2 / RCGW-2
☐ GW-3 ☐ _____
☐ S-1
☐ S-2
☐ S-3
☐ SW Protection

Data Format
☐ Excel
☒ PDF
☐ GIS/Key
☐ EQuIS
☒ Other Electronic Data

Data Package
☐ Tier II Checklist*
☐ Full Data Package*
☒ Phoenix Std
☐ Other

***MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.**

* SURCHARGES MAY APPLY

State where samples were collected: CT

* SURCHARGE APPLIES

(*) ILL rcvd Broken (TSB).

Form PEL126 Rev. 1/23

Sarah Bell

From: Zachary Hawk <ZHawk@tighebond.com>
Sent: Wednesday, March 27, 2024 4:15 PM
To: Sarah Bell
Cc: Mark Paulsson; Benjamin Giroux
Subject: RE: Phoenix Labs - GCQ36507, OLSON DRIVE - COC Acknowledgement

Hey Sarah

Could you add PAHs to the following samples.

3/26/2024	TB-12	GCQ36507	CQ36507
3/26/2024	TB-13	GCQ36507	CQ36508
3/26/2024	TB-14	GCQ36507	CQ36509
3/26/2024	TB-15	GCQ36507	CQ36510
3/26/2024	TB-16	GCQ36507	CQ36511
3/26/2024	TB-17	GCQ36507	CQ36512
3/26/2024	TB-18	GCQ36507	CQ36513
3/26/2024	TB-19	GCQ36507	CQ36514

Thanks, Zac

Zachary Hawk
Project Environmental Scientist I
Tighe&Bond
m. 203.747.4991

213 Court St, Middletown, CT 06457
w: tighebond.com | halvorsondesign.com

From: SampleReceiving@phoenixlabs.com <SampleReceiving@phoenixlabs.com>
Sent: Wednesday, March 27, 2024 3:56 PM

To: Zachary Hawk <ZHawk@tighebond.com>
Subject: Phoenix Labs - GCQ36507, OLSON DRIVE - COC Acknowledgement

[Caution - External Sender]

This is an automated sample acknowledgement.

If you were issued a Phoenix Price Quote # for this SDG and it was not listed on the chain, please email client services with the quote number so we can ensure proper invoicing. If no quote was issued, no further action is required.

Purchase Order#: 105093001

Samples Will Be Disposed After: 30 Days

GCQ36507 Criteria:
SOIL(10): CT GAM (GA Mobility), CT RC (Res. Criteria)

Please email client services only if you require criteria different than what is listed. Criteria added post-reporting requires re-evaluation of data and possible re-analysis therefore charges may apply. Project objectives not communicated at time of submittal may not be achieved.

Delivery group GCQ36507 (OLSON DRIVE) has been logged in for the following samples:

Phoenix Id	Client Id
CQ36507	TB-12 (7-9)
CQ36508	TB-13 (7-9)
CQ36509	TB-14 (7-9)
CQ36510	TB-15 (7-9)
CQ36511	TB-16 (5-7)
CQ36512	TB-17 (5-7)
CQ36513	TB-18 (5-7)
CQ36514	TB-19 (5-7)
CQ36515	MW-1 (9-10)

CQ36516	MW-1 (19-20)

This SDG has been logged in for Standard 7 business day turn-around time.

The samples were received at 2.6C with cooling initiated. (Note acceptance criteria for relevant matrices is above freezing up to 6°C)

If there are any questions regarding this submittal, please call Phoenix Client Services at extension 200.

Thank you for your business,

Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06374
Tel. (860) 645-1102
Fax. (860) 645-0823
www.phoenixlabs.com

Please do not reply to this email.
cc'd:jllibby@tighebond.com;bsirowich@tighebond.com;MPaulsson@TigheBond.com;jjackson@tighebond.com;bgiroux@tighebond.com;zhawk@tighebond.com

Sarah Bell

From: Mark Paulsson <MPaulsson@TigheBond.com>
Sent: Wednesday, April 10, 2024 11:24 AM
To: Sarah Bell; Shannon Wilhelm
Cc: Brian Sirowich
Subject: RE: Questions on add ons FW: Olson Drive (105093011) - SPLP Activation

Yes, please run the samples that are currently pass hold. For those samples that expire today, please accelerate to 24hr. Thanks,

Mark

Mark Paulsson

Senior Environmental Scientist I

Tighe&Bond

m. 203.216.3139

1000 Bridgeport Avenue, 3rd Floor, Shelton, CT 06484

w: tighebond.com | halvorsondesign.com

From: Sarah Bell <sarah@phoenixlabs.com>
Sent: Wednesday, April 10, 2024 11:20 AM
To: Shannon Wilhelm <shannon@phoenixlabs.com>
Cc: Mark Paulsson <MPaulsson@TigheBond.com>
Subject: Questions on add ons FW: Olson Drive (105093011) - SPLP Activation
Importance: High

[Caution - External Sender]

Mark see below for answers 😊

CQ34016 – past hold should we still add on
CQ36800 & CQ37533- goes out of hold today have to log in for 24hr to make holding time, or we can run past hold whichever you think?
CQ34023, 24, CQ34010, CQ36509 – past holding time. Still add on?

Sarah Bell
Project Manager
Phoenix Environmental Laboratories
587 East Middle Turnpike
Sarah@phoenixlabs.com
860-812-0270
Website: www.phoenixlabs.com

From: Shannon Wilhelm <shannon@phoenixlabs.com>
Sent: Wednesday, April 10, 2024 11:02 AM
To: Sarah Bell <sarah@phoenixlabs.com>
Subject: FW: Olson Drive (105093011) - SPLP Activation

CQ34016 – past hold
CQ36800 & CQ37533- goes out of hold today
CQ34023, 24, CQ34010, CQ36509 – past holding time.

Ok to add past hold and should I add the ones 24 hr that go out of hold today?

LMK, Thanks,
Shannon

From: Mark Paulsson <MPaulsson@TigheBond.com>
Sent: Wednesday, April 10, 2024 8:00 AM
To: Sarah Bell <sarah@phoenixlabs.com>
Cc: Brian Sirowich <BSirowich@TigheBond.com>; Jill L. Libby <JLLibby@tigheBond.com>
Subject: Olson Drive (105093011) - SPLP Activation

Hi Sarah,
Can you activate the following for SPLP analysis?

SPLP ETPH:

MW-4
6 - 7.5 ft
3/20/2024
CQ34016
GCQ34006

SPLP DDT:

MW-1	TB-16
0 - 1 ft	0 - 1 ft
3/27/2024	3/27/2024
CQ36800	CQ37533
GCQ36795	GCQ37525

**Confirm that SPLP DDT analysis is pending for TB-23 (0-1')/ CQ33974*

SPLP Chlordane:

MW-1
0 - 1 ft
3/27/2024
CQ36800
GCQ36795

SPLP PAHs:

MW-4	TP-6	TP-7	TP-17	TB-14
6 - 7.5 ft	4 ft	4 ft	3 - 4 ft	7 - 9 ft
3/20/2024	3/20/2024	3/20/2024	3/21/2024	3/26/2024
CQ34016	CQ34023	CQ34024	CQ34010	CQ36509
GCQ34006	GCQ34019	GCQ34019	GCQ34006	GCQ36507

SPLP Metals:

T&B Sample ID	Depth	Date Collected	Lab Sample ID	Lab Report ID	Requested SPLP Analysis
DUP-1	9 - 10.5 ft	3/21/2024	CQ34014	GCQ34006	SPLP Barium, SPLP Lead, SPLP Mercury
DUP-2	6 - 8 ft	3/21/2024	CQ33409	GCQ33408	SPLP Arsenic
MW-1	19 - 20 ft	3/26/2024	CQ36516	GCQ36507	SPLP Beryllium, SPLP Chromium, SPLP Vanadium
MW-2	6 - 8 ft	3/21/2024	CQ33408	GCQ33408	SPLP Arsenic, SPLP Nickel
MW-3	6 - 7 ft	3/26/2024	CQ35715	GCQ35701	SPLP Antimony, SPLP Arsenic, SPLP Cadmium, SPLP Copper, SPLP Nickel
MW-4	6 - 7.5 ft	3/20/2024	CQ34016	GCQ34006	SPLP Arsenic, SPLP Barium, SPLP Beryllium, SPLP Cadmium, SPLP Chromium, SPLP Copper, SPLP Lead, SPLP Nickel, SPLP Vanadium, SPLP Zinc
MW-6	4 - 5 ft	3/22/2024	CQ33969	GCQ33969	SPLP Antimony, SPLP Arsenic, SPLP Barium, SPLP Cadmium, SPLP Chromium, SPLP Copper, SPLP Lead, SPLP Mercury, SPLP Silver, SPLP Zinc

MW-8	0 - 3 ft	3/22/2024	CQ33971	GCQ33969	SPLP Beryllium
TB-24	7 - 9 ft	3/27/2024	CQ36798	GCQ36795	SPLP Mercury
TP-12	9 - 10.5 ft	3/21/2024	CQ34006	GCQ34006	SPLP Mercury
TP-14	9 - 10.5 ft	3/21/2024	CQ34008	GCQ34006	SPLP Barium, SPLP Lead, SPLP Mercury, SPLP Zinc
TP-15	9 - 10 ft	3/21/2024	CQ34009	GCQ34006	SPLP Beryllium, SPLP Vanadium
TP-16	10 - 11 ft	3/27/2024	CQ36799	GCQ36795	SPLP Vanadium
TP-2	5 - 7 ft	3/20/2024	CQ34019	GCQ34019	SPLP Antimony, SPLP Cadmium, SPLP Chromium, SPLP Copper, SPLP Nickel, SPLP Vanadium, SPLP Zinc
TP-3	7 - 9 ft	3/20/2024	CQ34020	GCQ34019	SPLP Antimony, SPLP Barium, SPLP Beryllium, SPLP Cadmium, SPLP Chromium, SPLP Copper, SPLP Lead, SPLP Nickel, SPLP Zinc

Please let me know if you have any questions.

Thanks,

Mark

Mark Paulsson

Senior Environmental Scientist I

Tighe&Bond

m. 203.216.3139

1000 Bridgeport Avenue, 3rd Floor, Shelton, CT 06484

w: tighebond.com | halvorsondesign.com

PHOENIX
Environmental Laboratories, Inc.

Thursday, June 27, 2024

Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: **OLSON DRIVE**
SDG ID: **GCQ94995**
Sample ID#s: CQ94999, CQ95004 - CQ95005, CQ95007, CQ95010, CQ95016, CQ95018

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

June 27, 2024

SDG I.D.: GCQ94995

Project ID: OLSON DRIVE

Client Id	Lab Id	Matrix
TB-104 (0-1)	CQ94999	SOIL
FIELD BLANK	CQ95004	WATER
TB-105 (0-1)	CQ95005	SOIL
TB-118 (4-6)	CQ95007	SOIL
TB-117 (4-6)	CQ95010	SOIL
TB-116 (6-8)	CQ95016	SOIL
TB-115 (4-6)	CQ95018	SOIL

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	06/13/24	9:10
Location Code:	TIGHE-DAS	Received by:	B	06/13/24	16:30
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ94995
Phoenix ID: CQ94999

Project ID: OLSON DRIVE
Client ID: TB-104 (0-1)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PFAS (40) by EPA 1633	Completed					06/24/24	***	EPA 1633 Draft 3	C
PFAS (40) by EPA 1633									
11Cl-PF3OUdS	ND	0.794	0.327	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.807	0.793	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	ND	0.788	0.625	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.798	0.625	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
3:3FTCA	ND	1.05	0.666	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
5:3FTCA	ND	5.25	2.20	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
7:3FTCA	ND	5.25	1.58	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
9Cl-PF3ONS	ND	0.786	0.258	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
ADONA	ND	0.794	0.183	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
HFPO-DA	ND	0.840	0.639	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NEtFOSA	ND	0.210	0.208	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NEtFOSAA	ND	0.210	0.204	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NEtFOSE	ND	2.10	0.732	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NFDHA	ND	0.420	0.203	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NMeFOSA	ND	0.210	0.189	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NMeFOSAA	ND	0.210	0.155	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NMeFOSE	ND	2.10	0.642	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.203	0.201	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.210	0.163	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.210	0.153	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.186	0.117	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorodecanoic acid (PFDA)	ND	0.210	0.201	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorododecane Sulfonic Acid (PFDoDS)	ND	0.204	0.177	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorododecanoic acid (PFDoA)	ND	0.210	0.171	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoroheptanoic acid (PFHpA)	ND	0.210	0.110	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C

Ver 1

Project ID: OLSON DRIVE
Client ID: TB-104 (0-1)

Phoenix I.D.: CQ94999

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.192	0.188	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorohexanoic acid (PFHxA)	ND	0.210	0.0557	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoro-n-butanoic acid (PFBA)	ND	0.840	0.114	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorononanesulfonic Acid (PFNS)	ND	0.202	0.130	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorononanoic acid (PFNA)	ND	0.210	0.198	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.195	0.175	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorooctanoic acid (PFOA)	ND	0.210	0.181	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoropentanesulfonic Acid (PFPeS)	ND	0.197	0.165	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoropentanoic acid (PFPeA)	ND	0.420	0.114	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorotetradecanoic acid (PFTA)	ND	0.210	0.108	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.210	0.131	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoroundecanoic acid (PFUnA)	ND	0.210	0.208	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
PFEESA	ND	0.374	0.146	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
PFMBA	ND	0.420	0.101	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
PFMPA	ND	0.420	0.0651	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Total PFAS (5)	ND	0.192	0.192	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
QA/QC Surrogates									
% d3-N-MeFOSAA	62.6			%	1	06/26/24	***	25 - 150 %	C
% d5-N-EtFOSAA	66.1			%	1	06/26/24	***	25 - 150 %	C
% d7-N-MeFOSE	45.3			%	1	06/26/24	***	25 - 150 %	C
% d9-N-EtFOSE	35.7			%	1	06/26/24	***	25 - 150 %	C
% d-N-EtFOSA	30.8			%	1	06/26/24	***	25 - 150 %	C
% d-N-MeFOSA	33.4			%	1	06/26/24	***	25 - 150 %	C
% M2-4:2 FTS	73.1			%	1	06/26/24	***	25 - 150 %	C
% M2-6:2 FTS	78.0			%	1	06/26/24	***	25 - 200 %	C
% M2-8:2 FTS	69.4			%	1	06/26/24	***	25 - 200 %	C
% M2PFTEDA	51.2			%	1	06/26/24	***	10 - 150 %	C
% M3HFPO-DA	86.9			%	1	06/26/24	***	25 - 150 %	C
% M3PFBS	85.9			%	1	06/26/24	***	25 - 150 %	C
% M3PFHxS	88.6			%	1	06/26/24	***	25 - 150 %	C
% M4PFHpA	79.5			%	1	06/26/24	***	25 - 150 %	C
% M5PFHxA	82.2			%	1	06/26/24	***	25 - 150 %	C
% M5PFPEA	60.6			%	1	06/26/24	***	25 - 150 %	C
% M6PFDA	77.6			%	1	06/26/24	***	25 - 150 %	C
% M7PFUDA	74.3			%	1	06/26/24	***	25 - 150 %	C
% M8FOSA	55.2			%	1	06/26/24	***	10 - 150 %	C
% M8PFOA	89.0			%	1	06/26/24	***	25 - 150 %	C
% M8PFOS	86.1			%	1	06/26/24	***	25 - 150 %	C
% M9PFNA	78.6			%	1	06/26/24	***	25 - 150 %	C
% MPFBA	4.75			%	1	06/26/24	***	25 - 150 %	C,3
% MPFDOA	74.6			%	1	06/26/24	***	25 - 150 %	C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection
MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

PFAS (40) by EPA 1633 (EPA 1633 Draft 3), PFOA/PFOS - Soil Extraction (EPA 1633 Draft 3) were analyzed by CT certified lab #PH-0721.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 27, 2024
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	ZH	06/13/24	14:30
Location Code:	TIGHE-DAS	Received by:	B	06/13/24	16:30
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ94995
Phoenix ID: CQ95004

Project ID: OLSON DRIVE
Client ID: FIELD BLANK

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PFAS (40) by EPA 1633	Completed					06/20/24	***	EPA 1633 Draft 3	C
PFAS (40) by EPA 1633									
11Cl-PF3OUdS	ND	7.47	1.36	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	7.59	2.03	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	ND	7.41	1.77	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	7.51	1.05	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
3:3FTCA	ND	4.94	2.01	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
5:3FTCA	ND	24.7	7.24	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
7:3FTCA	ND	24.7	9.36	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
9Cl-PF3ONS	ND	7.39	0.692	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
ADONA	ND	7.47	0.524	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
HFPO-DA	ND	7.90	3.19	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
NEtFOSA	ND	1.98	1.78	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
NEtFOSAA	ND	1.98	1.02	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
NEtFOSE	ND	19.8	3.94	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
NFDHA	ND	3.95	2.11	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
NMeFOSA	ND	1.98	1.56	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
NMeFOSAA	ND	1.98	0.781	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
NMeFOSE	ND	19.8	3.94	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.91	1.30	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.89	0.899	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	1.98	0.869	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
Perfluorobutanesulfonic acid (PFBS)	ND	1.75	0.464	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
Perfluorodecanoic acid (PFDA)	ND	1.98	0.741	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
Perfluorododecane Sulfonic Acid (PFDoDS)	ND	1.92	0.919	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
Perfluorododecanoic acid (PFDoA)	ND	1.98	0.869	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
Perfluoroheptanoic acid (PFHpA)	ND	1.98	0.701	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C

Ver 1

Project ID: OLSON DRIVE
Client ID: FIELD BLANK

Phoenix I.D.: CQ95004

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Perfluorohexanesulfonic Acid (PFHxS)	ND		1.81	0.672	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
Perfluorohexanoic acid (PFHxA)	ND		1.98	0.346	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
Perfluoro-n-butanoic acid (PFBA)	ND		7.90	0.326	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
Perfluorononanesulfonic Acid (PFNS)	ND		1.90	0.850	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
Perfluorononanoic acid (PFNA)	1.06	J	1.98	0.514	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
Perfluorooctanesulfonic Acid (PFOS)	ND		1.84	0.810	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
Perfluorooctanoic acid (PFOA)	ND		1.98	0.415	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
Perfluoropentanesulfonic Acid (PFPeS)	ND		1.86	0.751	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
Perfluoropentanoic acid (PFPeA)	ND		3.95	0.227	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
Perfluorotetradecanoic acid (PFTA)	ND		1.98	0.682	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
Perfluorotridecanoic acid (PFTrDA)	ND		1.98	0.731	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
Perfluoroundecanoic acid (PFUnA)	ND		1.98	1.12	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
PFEESA	ND		3.52	0.494	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
PFMBA	ND		3.95	0.366	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
PFMPA	ND		3.95	0.247	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
Total PFAS (5)	ND		1.81	1.81	ng/L	1	06/22/24	***	EPA 1633 Draft 3	C
QA/QC Surrogates										
% d3-N-MeFOSAA	86.8				%	1	06/22/24	***	25 - 150 %	C
% d5-N-EtFOSAA	92.4				%	1	06/22/24	***	25 - 150 %	C
% d7-N-MeFOSE	61.6				%	1	06/22/24	***	25 - 150 %	C
% d9-N-EtFOSE	55.5				%	1	06/22/24	***	25 - 150 %	C
% d-N-EtFOSA	67.1				%	1	06/22/24	***	25 - 150 %	C
% d-N-MeFOSA	68.9				%	1	06/22/24	***	25 - 150 %	C
% M2-4:2 FTS	94.6				%	1	06/22/24	***	25 - 150 %	C
% M2-6:2 FTS	92.2				%	1	06/22/24	***	25 - 200 %	C
% M2-8:2 FTS	83.2				%	1	06/22/24	***	25 - 200 %	C
% M2PFTEDA	65.9				%	1	06/22/24	***	10 - 150 %	C
% M3HFPO-DA	98.4				%	1	06/22/24	***	25 - 150 %	C
% M3PFBS	93.6				%	1	06/22/24	***	25 - 150 %	C
% M3PFHxS	95.6				%	1	06/22/24	***	25 - 150 %	C
% M4PFHpA	93.7				%	1	06/22/24	***	25 - 150 %	C
% M5PFHxA	95.6				%	1	06/22/24	***	25 - 150 %	C
% M5PFPEA	40.5				%	1	06/22/24	***	25 - 150 %	C
% M6PFDA	93.1				%	1	06/22/24	***	25 - 150 %	C
% M7PFUDA	96.4				%	1	06/22/24	***	25 - 150 %	C
% M8FOSA	91.6				%	1	06/22/24	***	10 - 150 %	C
% M8PFOA	109				%	1	06/22/24	***	25 - 150 %	C
% M8PFOS	102				%	1	06/22/24	***	25 - 150 %	C
% M9PFNA	97.5				%	1	06/22/24	***	25 - 150 %	C
% MPFBA	2.15				%	1	06/22/24	***	25 - 150 %	C,3
% MPFDOA	83.0				%	1	06/22/24	***	25 - 150 %	C

Project ID: OLSON DRIVE
Client ID: FIELD BLANK

Phoenix I.D.: CQ95004

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level J=Estimated Below RL
LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

PFAS (40) by EPA 1633 (EPA 1633 Draft 3), PFOA/PFOS - Water Extraction (EPA 1633 Draft 3) were analyzed by CT certified lab #PH-0721.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 27, 2024
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	06/13/24	14:44
Location Code:	TIGHE-DAS	Received by:	B	06/13/24	16:30
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ94995
Phoenix ID: CQ95005

Project ID: OLSON DRIVE
Client ID: TB-105 (0-1)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PFAS (40) by EPA 1633	Completed					06/24/24	***	EPA 1633 Draft 3	C
PFAS (40) by EPA 1633									
11Cl-PF3OUdS	ND	0.807	0.332	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.820	0.806	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	ND	0.800	0.635	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.811	0.635	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
3:3FTCA	ND	1.07	0.677	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
5:3FTCA	ND	5.34	2.24	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
7:3FTCA	ND	5.34	1.60	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
9Cl-PF3ONS	ND	0.798	0.263	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
ADONA	ND	0.807	0.186	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
HFPO-DA	ND	0.854	0.649	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NEtFOSA	ND	0.213	0.211	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NEtFOSAA	ND	0.213	0.207	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NEtFOSE	ND	2.13	0.744	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NFDHA	ND	0.427	0.206	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NMeFOSA	ND	0.213	0.192	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NMeFOSAA	ND	0.213	0.158	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NMeFOSE	ND	2.13	0.652	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.206	0.204	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.213	0.165	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.213	0.156	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.189	0.118	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorodecanoic acid (PFDA)	ND	0.213	0.204	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorododecane Sulfonic Acid (PFDoDS)	ND	0.207	0.180	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorododecanoic acid (PFDoA)	ND	0.213	0.174	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoroheptanoic acid (PFHpA)	ND	0.213	0.112	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C

Project ID: OLSON DRIVE
Client ID: TB-105 (0-1)

Phoenix I.D.: CQ95005

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.195	0.191	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorohexanoic acid (PFHxA)	ND	0.213	0.0566	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoro-n-butanoic acid (PFBA)	ND	0.854	0.116	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorononanesulfonic Acid (PFNS)	ND	0.205	0.132	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorononanoic acid (PFNA)	ND	0.213	0.202	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorooctanesulfonic Acid (PFOS)	0.516	0.198	0.178	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorooctanoic acid (PFOA)	ND	0.213	0.184	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoropentanesulfonic Acid (PFPeS)	ND	0.201	0.168	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoropentanoic acid (PFPeA)	ND	0.427	0.116	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorotetradecanoic acid (PFTA)	ND	0.213	0.110	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.213	0.133	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoroundecanoic acid (PFUnA)	ND	0.213	0.211	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
PFEESA	ND	0.380	0.148	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
PFMBA	ND	0.427	0.102	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
PFMPA	ND	0.427	0.0662	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Total PFAS (5)	0.516	0.195	0.195	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
QA/QC Surrogates									
% d3-N-MeFOSAA	64.9			%	1	06/26/24	***	25 - 150 %	C
% d5-N-EtFOSAA	59.2			%	1	06/26/24	***	25 - 150 %	C
% d7-N-MeFOSE	46.7			%	1	06/26/24	***	25 - 150 %	C
% d9-N-EtFOSE	36.5			%	1	06/26/24	***	25 - 150 %	C
% d-N-EtFOSA	28.3			%	1	06/26/24	***	25 - 150 %	C
% d-N-MeFOSA	38.1			%	1	06/26/24	***	25 - 150 %	C
% M2-4:2 FTS	92.0			%	1	06/26/24	***	25 - 150 %	C
% M2-6:2 FTS	98.1			%	1	06/26/24	***	25 - 200 %	C
% M2-8:2 FTS	72.6			%	1	06/26/24	***	25 - 200 %	C
% M2PFTEDA	58.6			%	1	06/26/24	***	10 - 150 %	C
% M3HFPO-DA	104			%	1	06/26/24	***	25 - 150 %	C
% M3PFBS	87.1			%	1	06/26/24	***	25 - 150 %	C
% M3PFHxS	94.3			%	1	06/26/24	***	25 - 150 %	C
% M4PFHpA	82.7			%	1	06/26/24	***	25 - 150 %	C
% M5PFHxA	93.7			%	1	06/26/24	***	25 - 150 %	C
% M5PFPEA	92.8			%	1	06/26/24	***	25 - 150 %	C
% M6PFDA	75.0			%	1	06/26/24	***	25 - 150 %	C
% M7PFUDA	79.5			%	1	06/26/24	***	25 - 150 %	C
% M8FOSA	53.7			%	1	06/26/24	***	10 - 150 %	C
% M8PFOA	96.7			%	1	06/26/24	***	25 - 150 %	C
% M8PFOS	91.3			%	1	06/26/24	***	25 - 150 %	C
% M9PFNA	92.0			%	1	06/26/24	***	25 - 150 %	C
% MPFBA	89.6			%	1	06/26/24	***	25 - 150 %	C
% MPFDOA	71.5			%	1	06/26/24	***	25 - 150 %	C

Project ID: OLSON DRIVE
Client ID: TB-105 (0-1)

Phoenix I.D.: CQ95005

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

C = This parameter is subcontracted.

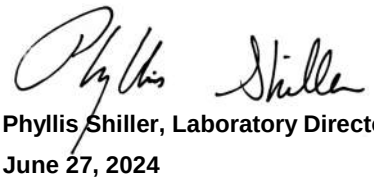
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection
MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

PFAS (40) by EPA 1633 (EPA 1633 Draft 3), PFOA/PFOS - Soil Extraction (EPA 1633 Draft 3) were analyzed by CT certified lab #PH-0721.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 27, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	06/13/24	13:15
Location Code:	TIGHE-DAS	Received by:	B	06/13/24	16:30
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ94995
Phoenix ID: CQ95007

Project ID: OLSON DRIVE
Client ID: TB-118 (4-6)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PFAS (40) by EPA 1633	Completed					06/24/24	***	EPA 1633 Draft 3	C
PFAS (40) by EPA 1633									
11Cl-PF3OUdS	ND	0.787	0.324	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.800	0.786	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	ND	0.781	0.620	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.792	0.620	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
3:3FTCA	ND	1.04	0.660	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
5:3FTCA	ND	5.21	2.19	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
7:3FTCA	ND	5.21	1.56	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
9Cl-PF3ONS	ND	0.779	0.256	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
ADONA	ND	0.787	0.181	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
HFPO-DA	ND	0.833	0.633	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NEtFOSA	ND	0.208	0.206	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NEtFOSAA	ND	0.208	0.202	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NEtFOSE	ND	2.08	0.726	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NFDHA	ND	0.417	0.201	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NMeFOSA	ND	0.208	0.187	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NMeFOSAA	ND	0.208	0.154	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NMeFOSE	ND	2.08	0.636	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.201	0.199	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.208	0.161	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.208	0.152	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.184	0.116	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorodecanoic acid (PFDA)	ND	0.208	0.199	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorododecane Sulfonic Acid (PFDoDS)	ND	0.202	0.176	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorododecanoic acid (PFDoA)	ND	0.208	0.170	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoroheptanoic acid (PFHpA)	ND	0.208	0.109	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C

Ver 1

Project ID: OLSON DRIVE
Client ID: TB-118 (4-6)

Phoenix I.D.: CQ95007

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.191	0.186	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorohexanoic acid (PFHxA)	ND	0.208	0.0552	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoro-n-butanoic acid (PFBA)	ND	0.833	0.114	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorononanesulfonic Acid (PFNS)	ND	0.200	0.129	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorononanoic acid (PFNA)	ND	0.208	0.197	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorooctanesulfonic Acid (PFOS)	0.756	0.194	0.174	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorooctanoic acid (PFOA)	ND	0.208	0.179	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoropentanesulfonic Acid (PFPeS)	ND	0.196	0.164	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoropentanoic acid (PFPeA)	ND	0.417	0.114	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorotetradecanoic acid (PFTA)	ND	0.208	0.107	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.208	0.130	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoroundecanoic acid (PFUnA)	ND	0.208	0.206	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
PFEESA	ND	0.371	0.145	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
PFMBA	ND	0.417	0.100	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
PFMPA	ND	0.417	0.0646	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Total PFAS (5)	0.756	0.191	0.191	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
QA/QC Surrogates									
% d3-N-MeFOSAA	59.0			%	1	06/26/24	***	25 - 150 %	C
% d5-N-EtFOSAA	58.2			%	1	06/26/24	***	25 - 150 %	C
% d7-N-MeFOSE	51.9			%	1	06/26/24	***	25 - 150 %	C
% d9-N-EtFOSE	36.8			%	1	06/26/24	***	25 - 150 %	C
% d-N-EtFOSA	28.9			%	1	06/26/24	***	25 - 150 %	C
% d-N-MeFOSA	43.9			%	1	06/26/24	***	25 - 150 %	C
% M2-4:2 FTS	67.2			%	1	06/26/24	***	25 - 150 %	C
% M2-6:2 FTS	72.2			%	1	06/26/24	***	25 - 200 %	C
% M2-8:2 FTS	68.3			%	1	06/26/24	***	25 - 200 %	C
% M2PFTEDA	40.7			%	1	06/26/24	***	10 - 150 %	C
% M3HFPO-DA	97.2			%	1	06/26/24	***	25 - 150 %	C
% M3PFBS	89.1			%	1	06/26/24	***	25 - 150 %	C
% M3PFHxS	94.4			%	1	06/26/24	***	25 - 150 %	C
% M4PFHpA	76.8			%	1	06/26/24	***	25 - 150 %	C
% M5PFHxA	84.7			%	1	06/26/24	***	25 - 150 %	C
% M5PFPEA	88.2			%	1	06/26/24	***	25 - 150 %	C
% M6PFDA	83.6			%	1	06/26/24	***	25 - 150 %	C
% M7PFUDA	73.5			%	1	06/26/24	***	25 - 150 %	C
% M8FOSA	70.6			%	1	06/26/24	***	10 - 150 %	C
% M8PFOA	105			%	1	06/26/24	***	25 - 150 %	C
% M8PFOS	93.2			%	1	06/26/24	***	25 - 150 %	C
% M9PFNA	96.6			%	1	06/26/24	***	25 - 150 %	C
% MPFBA	91.9			%	1	06/26/24	***	25 - 150 %	C
% MPFDOA	60.0			%	1	06/26/24	***	25 - 150 %	C

Project ID: OLSON DRIVE
Client ID: TB-118 (4-6)

Phoenix I.D.: CQ95007

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

C = This parameter is subcontracted.

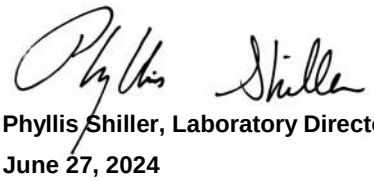
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection
MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

PFAS (40) by EPA 1633 (EPA 1633 Draft 3), PFOA/PFOS - Soil Extraction (EPA 1633 Draft 3) were analyzed by CT certified lab #PH-0721.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 27, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	06/13/24	13:25
Location Code:	TIGHE-DAS	Received by:	B	06/13/24	16:30
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ94995
Phoenix ID: CQ95010

Project ID: OLSON DRIVE
Client ID: TB-117 (4-6)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PFAS (40) by EPA 1633	Completed					06/24/24	***	EPA 1633 Draft 3	C
PFAS (40) by EPA 1633									
11Cl-PF3OUdS	ND	0.802	0.330	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.814	0.801	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	ND	0.795	0.631	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.806	0.631	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
3:3FTCA	ND	1.06	0.672	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
5:3FTCA	ND	5.30	2.22	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
7:3FTCA	ND	5.30	1.59	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
9Cl-PF3ONS	ND	0.793	0.261	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
ADONA	ND	0.802	0.185	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
HFPO-DA	ND	0.848	0.645	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NEtFOSA	ND	0.212	0.210	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NEtFOSAA	ND	0.212	0.206	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NEtFOSE	ND	2.12	0.739	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NFDHA	ND	0.424	0.205	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NMeFOSA	ND	0.212	0.191	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NMeFOSAA	ND	0.212	0.157	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NMeFOSE	ND	2.12	0.648	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.205	0.203	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.212	0.164	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.212	0.155	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.188	0.118	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorodecanoic acid (PFDA)	ND	0.212	0.203	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorododecane Sulfonic Acid (PFDoDS)	ND	0.206	0.179	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorododecanoic acid (PFDoA)	ND	0.212	0.173	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoroheptanoic acid (PFHpA)	ND	0.212	0.111	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C

Ver 1

Project ID: OLSON DRIVE
Client ID: TB-117 (4-6)

Phoenix I.D.: CQ95010

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.194	0.190	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorohexanoic acid (PFHxA)	ND	0.212	0.0562	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoro-n-butanoic acid (PFBA)	ND	0.848	0.116	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorononanesulfonic Acid (PFNS)	ND	0.204	0.131	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorononanoic acid (PFNA)	ND	0.212	0.200	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.197	0.177	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorooctanoic acid (PFOA)	ND	0.212	0.182	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoropentanesulfonic Acid (PFPeS)	ND	0.199	0.166	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoropentanoic acid (PFPeA)	ND	0.424	0.116	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorotetradecanoic acid (PFTA)	ND	0.212	0.109	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.212	0.133	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoroundecanoic acid (PFUnA)	ND	0.212	0.210	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
PFEESA	ND	0.377	0.147	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
PFMBA	ND	0.424	0.102	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
PFMPA	ND	0.424	0.0657	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Total PFAS (5)	ND	0.194	0.194	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
QA/QC Surrogates									
% d3-N-MeFOSAA	28.4			%	1	06/26/24	***	25 - 150 %	C
% d5-N-EtFOSAA	29.3			%	1	06/26/24	***	25 - 150 %	C
% d7-N-MeFOSE	44.2			%	1	06/26/24	***	25 - 150 %	C
% d9-N-EtFOSE	29.8			%	1	06/26/24	***	25 - 150 %	C
% d-N-EtFOSA	42.6			%	1	06/26/24	***	25 - 150 %	C
% d-N-MeFOSA	44.2			%	1	06/26/24	***	25 - 150 %	C
% M2-4:2 FTS	26.1			%	1	06/26/24	***	25 - 150 %	C
% M2-6:2 FTS	31.3			%	1	06/26/24	***	25 - 200 %	C
% M2-8:2 FTS	29.8			%	1	06/26/24	***	25 - 200 %	C
% M2PFTEDA	22.4			%	1	06/26/24	***	10 - 150 %	C
% M3HFPO-DA	71.8			%	1	06/26/24	***	25 - 150 %	C
% M3PFBS	67.2			%	1	06/26/24	***	25 - 150 %	C
% M3PFHxS	73.1			%	1	06/26/24	***	25 - 150 %	C
% M4PFHpA	54.0			%	1	06/26/24	***	25 - 150 %	C
% M5PFHxA	57.4			%	1	06/26/24	***	25 - 150 %	C
% M5PFPEA	54.3			%	1	06/26/24	***	25 - 150 %	C
% M6PFDA	49.9			%	1	06/26/24	***	25 - 150 %	C
% M7PFUDA	44.1			%	1	06/26/24	***	25 - 150 %	C
% M8FOSA	44.7			%	1	06/26/24	***	10 - 150 %	C
% M8PFOA	55.7			%	1	06/26/24	***	25 - 150 %	C
% M8PFOS	64.1			%	1	06/26/24	***	25 - 150 %	C
% M9PFNA	48.8			%	1	06/26/24	***	25 - 150 %	C
% MPFBA	55.6			%	1	06/26/24	***	25 - 150 %	C
% MPFDOA	33.3			%	1	06/26/24	***	25 - 150 %	C

Project ID: OLSON DRIVE
Client ID: TB-117 (4-6)

Phoenix I.D.: CQ95010

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection
MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

PFAS (40) by EPA 1633 (EPA 1633 Draft 3), PFOA/PFOS - Soil Extraction (EPA 1633 Draft 3) were analyzed by CT certified lab #PH-0721.

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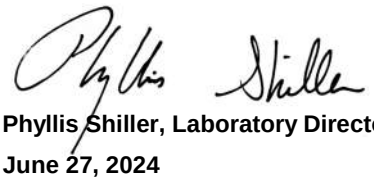

Phyllis Shiller, Laboratory Director

June 27, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	06/13/24	13:41
Location Code:	TIGHE-DAS	Received by:	B	06/13/24	16:30
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ94995
Phoenix ID: CQ95016

Project ID: OLSON DRIVE
Client ID: TB-116 (6-8)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PFAS (40) by EPA 1633	Completed					06/24/24	***	EPA 1633 Draft 3	C
PFAS (40) by EPA 1633									
11Cl-PF3OUdS	ND	0.789	0.324	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.801	0.788	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	ND	0.782	0.621	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.793	0.621	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
3:3FTCA	ND	1.04	0.661	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
5:3FTCA	ND	5.22	2.19	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
7:3FTCA	ND	5.22	1.56	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
9Cl-PF3ONS	ND	0.780	0.257	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
ADONA	ND	0.789	0.182	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
HFPO-DA	ND	0.835	0.634	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NEtFOSA	ND	0.209	0.207	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NEtFOSAA	ND	0.209	0.202	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NEtFOSE	ND	2.09	0.727	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NFDHA	ND	0.417	0.201	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NMeFOSA	ND	0.209	0.188	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NMeFOSAA	ND	0.209	0.154	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NMeFOSE	ND	2.09	0.637	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.201	0.199	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.209	0.162	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.209	0.152	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.185	0.116	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorodecanoic acid (PFDA)	ND	0.209	0.199	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorododecane Sulfonic Acid (PFDoDS)	ND	0.202	0.176	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorododecanoic acid (PFDoA)	ND	0.209	0.170	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoroheptanoic acid (PFHpA)	ND	0.209	0.110	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C

Ver 1

Project ID: OLSON DRIVE
Client ID: TB-116 (6-8)

Phoenix I.D.: CQ95016

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.191	0.187	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorohexanoic acid (PFHxA)	ND	0.209	0.0553	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoro-n-butanoic acid (PFBA)	ND	0.835	0.114	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorononanesulfonic Acid (PFNS)	ND	0.200	0.129	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorononanoic acid (PFNA)	ND	0.209	0.197	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.194	0.174	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorooctanoic acid (PFOA)	ND	0.209	0.179	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoropentanesulfonic Acid (PFPeS)	ND	0.196	0.164	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoropentanoic acid (PFPeA)	ND	0.417	0.114	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorotetradecanoic acid (PFTA)	ND	0.209	0.107	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.209	0.130	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoroundecanoic acid (PFUnA)	ND	0.209	0.207	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
PFEESA	ND	0.371	0.145	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
PFMBA	ND	0.417	0.100	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
PFMPA	ND	0.417	0.0647	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Total PFAS (5)	ND	0.191	0.191	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
QA/QC Surrogates									
% d3-N-MeFOSAA	63.3			%	1	06/26/24	***	25 - 150 %	C
% d5-N-EtFOSAA	61.9			%	1	06/26/24	***	25 - 150 %	C
% d7-N-MeFOSE	39.7			%	1	06/26/24	***	25 - 150 %	C
% d9-N-EtFOSE	25.9			%	1	06/26/24	***	25 - 150 %	C
% d-N-EtFOSA	35.8			%	1	06/26/24	***	25 - 150 %	C
% d-N-MeFOSA	35.1			%	1	06/26/24	***	25 - 150 %	C
% M2-4:2 FTS	67.5			%	1	06/26/24	***	25 - 150 %	C
% M2-6:2 FTS	69.1			%	1	06/26/24	***	25 - 200 %	C
% M2-8:2 FTS	67.9			%	1	06/26/24	***	25 - 200 %	C
% M2PFTEDA	35.1			%	1	06/26/24	***	10 - 150 %	C
% M3HFPO-DA	93.2			%	1	06/26/24	***	25 - 150 %	C
% M3PFBS	89.7			%	1	06/26/24	***	25 - 150 %	C
% M3PFHxS	93.2			%	1	06/26/24	***	25 - 150 %	C
% M4PFHpA	85.7			%	1	06/26/24	***	25 - 150 %	C
% M5PFHxA	85.4			%	1	06/26/24	***	25 - 150 %	C
% M5PFPEA	88.9			%	1	06/26/24	***	25 - 150 %	C
% M6PFDA	70.3			%	1	06/26/24	***	25 - 150 %	C
% M7PFUDA	73.8			%	1	06/26/24	***	25 - 150 %	C
% M8FOSA	62.9			%	1	06/26/24	***	10 - 150 %	C
% M8PFOA	88.4			%	1	06/26/24	***	25 - 150 %	C
% M8PFOS	85.9			%	1	06/26/24	***	25 - 150 %	C
% M9PFNA	84.6			%	1	06/26/24	***	25 - 150 %	C
% MPFBA	88.7			%	1	06/26/24	***	25 - 150 %	C
% MPFDOA	58.7			%	1	06/26/24	***	25 - 150 %	C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection
MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

PFAS (40) by EPA 1633 (EPA 1633 Draft 3), PFOA/PFOS - Soil Extraction (EPA 1633 Draft 3) were analyzed by CT certified lab #PH-0721.

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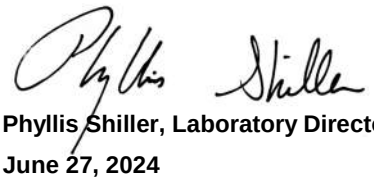

Phyllis Shiller, Laboratory Director

June 27, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	06/13/24	13:50
Location Code:	TIGHE-DAS	Received by:	B	06/13/24	16:30
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ94995
Phoenix ID: CQ95018

Project ID: OLSON DRIVE
Client ID: TB-115 (4-6)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PFAS (40) by EPA 1633	Completed					06/24/24	***	EPA 1633 Draft 3	C
PFAS (40) by EPA 1633									
11Cl-PF3OUdS	ND	0.819	0.337	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.832	0.818	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	ND	0.812	0.644	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.823	0.644	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
3:3FTCA	ND	1.08	0.686	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
5:3FTCA	ND	5.41	2.27	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
7:3FTCA	ND	5.41	1.62	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
9Cl-PF3ONS	ND	0.810	0.266	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
ADONA	ND	0.819	0.188	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
HFPO-DA	ND	0.866	0.658	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NEtFOSA	ND	0.217	0.214	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NEtFOSAA	ND	0.217	0.210	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NEtFOSE	ND	2.17	0.755	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NFDHA	ND	0.433	0.209	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NMeFOSA	ND	0.217	0.195	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NMeFOSAA	ND	0.217	0.160	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
NMeFOSE	ND	2.17	0.662	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.209	0.207	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.217	0.168	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.217	0.158	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.192	0.120	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorodecanoic acid (PFDA)	ND	0.217	0.207	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorododecane Sulfonic Acid (PFDoDS)	ND	0.210	0.183	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorododecanoic acid (PFDoA)	ND	0.217	0.176	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoroheptanoic acid (PFHpA)	ND	0.217	0.114	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C

Ver 1

Project ID: OLSON DRIVE
Client ID: TB-115 (4-6)

Phoenix I.D.: CQ95018

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.198	0.194	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorohexanoic acid (PFHxA)	ND	0.217	0.0574	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoro-n-butanoic acid (PFBA)	ND	0.866	0.118	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorononanesulfonic Acid (PFNS)	ND	0.208	0.134	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorononanoic acid (PFNA)	ND	0.217	0.205	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorooctanesulfonic Acid (PFOS)	1.41	0.201	0.181	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorooctanoic acid (PFOA)	ND	0.217	0.186	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoropentanesulfonic Acid (PFPeS)	ND	0.204	0.170	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoropentanoic acid (PFPeA)	ND	0.433	0.118	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorotetradecanoic acid (PFTA)	ND	0.217	0.112	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.217	0.135	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Perfluoroundecanoic acid (PFUnA)	ND	0.217	0.214	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
PFEESA	ND	0.385	0.151	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
PFMBA	ND	0.433	0.104	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
PFMPA	ND	0.433	0.0671	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
Total PFAS (5)	1.410	0.198	0.198	ng/g	1	06/26/24	***	EPA 1633 Draft 3	C
QA/QC Surrogates									
% d3-N-MeFOSAA	63.1			%	1	06/26/24	***	25 - 150 %	C
% d5-N-EtFOSAA	64.5			%	1	06/26/24	***	25 - 150 %	C
% d7-N-MeFOSE	50.3			%	1	06/26/24	***	25 - 150 %	C
% d9-N-EtFOSE	36.3			%	1	06/26/24	***	25 - 150 %	C
% d-N-EtFOSA	42.7			%	1	06/26/24	***	25 - 150 %	C
% d-N-MeFOSA	45.6			%	1	06/26/24	***	25 - 150 %	C
% M2-4:2 FTS	67.4			%	1	06/26/24	***	25 - 150 %	C
% M2-6:2 FTS	73.7			%	1	06/26/24	***	25 - 200 %	C
% M2-8:2 FTS	68.7			%	1	06/26/24	***	25 - 200 %	C
% M2PFTEDA	41.0			%	1	06/26/24	***	10 - 150 %	C
% M3HFPO-DA	90.2			%	1	06/26/24	***	25 - 150 %	C
% M3PFBS	89.1			%	1	06/26/24	***	25 - 150 %	C
% M3PFHxS	87.6			%	1	06/26/24	***	25 - 150 %	C
% M4PFHpA	79.4			%	1	06/26/24	***	25 - 150 %	C
% M5PFHxA	86.8			%	1	06/26/24	***	25 - 150 %	C
% M5PFPEA	77.3			%	1	06/26/24	***	25 - 150 %	C
% M6PFDA	76.9			%	1	06/26/24	***	25 - 150 %	C
% M7PFUDA	67.4			%	1	06/26/24	***	25 - 150 %	C
% M8FOSA	62.0			%	1	06/26/24	***	10 - 150 %	C
% M8PFOA	95.0			%	1	06/26/24	***	25 - 150 %	C
% M8PFOS	84.8			%	1	06/26/24	***	25 - 150 %	C
% M9PFNA	87.4			%	1	06/26/24	***	25 - 150 %	C
% MPFBA	5.89			%	1	06/26/24	***	25 - 150 %	C,3
% MPFDOA	64.1			%	1	06/26/24	***	25 - 150 %	C

Ver 1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection
MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

PFAS (40) by EPA 1633 (EPA 1633 Draft 3), PFOA/PFOS - Soil Extraction (EPA 1633 Draft 3) were analyzed by CT certified lab #PH-0721.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 27, 2024
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

QA/QC Report

June 27, 2024

QA/QC Data

SDG I.D.: GCQ94995

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 737768 (ng/g), QC Sample No: CQ94999 (CQ94999, CQ95005, CQ95007, CQ95010, CQ95016, CQ95018)										
PFOA & PFOS										
11Cl-PF3OUdS	ND	0.756	70.0	51.5					50 - 150	
3:3FTCA	ND	1.00	97.2	84.8					50 - 150	
4:2FTS	ND	0.750	95.7	90.4					50 - 150	
5:3FTCA	ND	5.00	100	94.4					50 - 150	
6:2FTS	ND	0.760	94.8	97.8					50 - 150	
7:3FTCA	ND	5.00	98.1	92.4					50 - 150	
8:2FTS	ND	0.768	88.1	96.6					50 - 150	
9Cl-PF3ONS	ND	0.748	74.3	66.5					50 - 150	
ADONA	ND	0.756	82.2	75.9					50 - 150	
FOSA	ND	0.200	91.8	86.1					50 - 150	
HFPO-DA	ND	0.800	85.9	78.4					50 - 150	
NEtFOSA	ND	0.200	103	ND					50 - 150	
NEtFOSAA	ND	0.200	90.4	92.4					50 - 150	
NEtFOSE	ND	2.00	106	104					50 - 150	
NFDHA	ND	0.400	107	112					50 - 150	
NMeFOSA	ND	0.200	91.3	112					50 - 150	
NMeFOSAA	ND	0.200	94.6	87.6					50 - 150	
NMeFOSE	ND	2.00	89.7	88.0					50 - 150	
PFBA	ND	0.800	90.0	87.4					50 - 150	
PFBS	ND	0.177	92.5	89.5					50 - 150	
PFDA	ND	0.200	101	82.7					50 - 150	
PFDoA	ND	0.200	95.2	98.1					50 - 150	
PFDoDS	ND	0.194	57.5	45.8					50 - 150	
PFDS	ND	0.193	74.3	85.7					50 - 150	
PFEESA	ND	0.356	96.9	89.6					50 - 150	
PFHpA	ND	0.200	102	93.1					50 - 150	
PFHpS	ND	0.200	92.9	103					50 - 150	
PFHxA	ND	0.200	96.3	83.2					50 - 150	
PFHxS	ND	0.183	90.4	83.4					50 - 150	
PFMBA	ND	0.400	89.3	85.8					50 - 150	
PFMPA	ND	0.400	91.3	88.1					50 - 150	
PFNA	ND	0.200	88.1	88.5					50 - 150	
PFNS	ND	0.192	80.9	89.3					50 - 150	
PFOA	ND	0.200	88.9	81.4					50 - 150	
PFOS	ND	0.186	82.4	80.4					50 - 150	
PFPeA	ND	0.400	95.9	90.8					50 - 150	
PFPeS	ND	0.188	94.2	95.8					50 - 150	
PFTA	ND	0.200	97.5	85.7					50 - 150	
PFTrDA	ND	0.200	137	112					50 - 150	
PFUnA	ND	0.200	109	103					50 - 150	
% d3-N-MeFOSAA	65.5		63.5	68.7					25 - 150	

QA/QC Data

SDG I.D.: GCQ94995

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% M2-4:2 FTS	88.0		82.1	84.7					25 - 150	
% M2-6:2 FTS	86.9		80.1	84.6					25 - 200	
% M2-8:2 FTS	71.8		70.4	70.5					25 - 200	
% M2PFTEDA	52.5		34.9	43.6					10 - 150	
% M3HFPO-DA	98.4		95.5	116					25 - 150	
% M3PFBS	92.3		85.7	102					25 - 150	
% M3PFHxS	91.9		87.3	106					25 - 150	
% M4PFHpA	81.9		79.4	92.0					25 - 150	
% M5PFHxA	86.0		85.1	99.1					25 - 150	
% M5PFPEA	88.7		88.8	102					25 - 150	
% M6PFDA	86.2		65.6	89.5					25 - 150	
% M7PFUDA	94.7		65.0	76.2					25 - 150	
% M8FOSA	68.1		66.1	73.7					10 - 150	
% M8PFOA	89.8		94.1	116					25 - 150	
% M8PFOS	102		94.0	91.6					25 - 150	
% M9PFNA	86.1		84.8	88.6					25 - 150	
% MPFBA	93.2		95.1	106					25 - 150	
% MPFDOA	74.8		56.2	56.7					25 - 150	

Comment:

LCS/LCSD are spiked per method at different levels, no RPD is provided.

QA/QC Batch 737767 (ng/L), QC Sample No: CQ95004 (CQ95004)

PFOA & PFOS

11Cl-PF3OUdS	ND	15.1	78.3	75.9					50 - 150	
3:3FTCA	ND	10.0	47.5	53.2					50 - 150	
4:2FTS	ND	15.0	83.1	82.8					50 - 150	
5:3FTCA	ND	50.0	83.1	75.4					50 - 150	
6:2FTS	ND	15.2	83.7	84.6					50 - 150	
7:3FTCA	ND	50.0	84.0	77.7					50 - 150	
8:2FTS	ND	15.4	86.5	88.1					50 - 150	
9Cl-PF3ONS	ND	15.0	79.7	77.3					50 - 150	
ADONA	ND	15.1	84.5	84.8					50 - 150	
FOSA	ND	4.00	81.7	78.6					50 - 150	
HFPO-DA	ND	16.0	86.2	82.2					50 - 150	
NEtFOSA	ND	4.00	85.0	74.4					50 - 150	
NEtFOSAA	ND	4.00	91.9	82.9					50 - 150	
NEtFOSE	ND	40.0	83.3	81.2					50 - 150	
NFDHA	ND	8.00	84.5	71.3					50 - 150	
NMeFOSA	ND	4.00	75.2	63.0					50 - 150	
NMeFOSAA	ND	4.00	90.3	98.0					50 - 150	
NMeFOSE	ND	40.0	78.7	78.5					50 - 150	
PFBA	ND	16.0	66.8	58.7					50 - 150	
PFBS	ND	3.54	86.0	84.7					50 - 150	
PFDA	ND	4.00	83.0	73.9					50 - 150	
PFDoA	ND	4.00	75.5	78.2					50 - 150	
PFDoDS	ND	3.88	70.6	64.3					50 - 150	
PFDS	ND	3.86	77.4	86.2					50 - 150	
PFEESA	ND	7.12	90.6	81.4					50 - 150	
PFHpA	ND	4.00	85.2	77.7					50 - 150	
PFHpS	ND	3.82	88.1	84.6					50 - 150	
PFHxA	ND	4.00	86.9	75.6					50 - 150	
PFHxS	ND	3.66	85.3	86.2					50 - 150	
PFMBA	ND	8.00	118	109					50 - 150	

QA/QC Data

SDG I.D.: GCQ94995

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
PFMPA	ND	8.00	12.8	13.3					50 - 150		l
PFNA	ND	4.00	81.7	78.4					50 - 150		
PFNS	ND	3.84	85.3	84.9					50 - 150		
PFOA	ND	4.00	75.7	81.5					50 - 150		
PFOS	ND	3.72	85.6	89.6					50 - 150		
PFPeA	ND	8.00	88.0	83.6					50 - 150		
PFPeS	ND	3.76	88.9	97.7					50 - 150		
PFTA	ND	4.00	84.2	78.9					50 - 150		
PFTrDA	ND	4.00	98.6	85.5					50 - 150		
PFUnA	ND	4.00	101	86.2					50 - 150		
% d3-N-MeFOSAA	90.2		93.7	85.6					25 - 150		
% d5-N-EtFOSAA	85.8		85.7	91.8					25 - 150		
% M2-4:2 FTS	97.2		102	93.5					25 - 150		
% M2-6:2 FTS	93.2		98.7	86.5					25 - 200		
% M2-8:2 FTS	86.9		90.9	81.3					25 - 200		
% M2PFTEDA	57.3		75.7	88.2					10 - 150		
% M3HFPO-DA	103		113	106					25 - 150		
% M3PFBS	105		101	98.0					25 - 150		
% M3PFHxS	107		112	104					25 - 150		
% M4PFHpA	97.5		110	103					25 - 150		
% M5PFHxA	99.5		106	102					25 - 150		
% M5PFPEA	51.3		59.7	53.4					25 - 150		
% M6PFDA	95.6		111	114					25 - 150		
% M7PFUDA	97.1		96.3	104					25 - 150		
% M8FOSA	90.3		92.2	89.2					10 - 150		
% M8PFOA	113		116	105					25 - 150		
% M8PFOS	105		107	108					25 - 150		
% M9PFNA	95.2		109	106					25 - 150		
% MPFBA	2.04		2.42	2.56					25 - 150		l,s
% MPFDOA	86.1		94.5	99.2					25 - 150		

Comment:

LCS/LCSD are spiked per method at different levels, no RPD is provided.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
s = This parameter is outside laboratory Blank Surrogate specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
June 27, 2024

Thursday, June 27, 2024

Criteria: CT: GAM, RC

State: CT

Sample Criteria Exceedances Report

GCQ94995 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CQ95018	$PFAS-SM1633	Total PFAS (5)	CT / RSR GA,GAA (mg/kg) / APS Organics	1.410	0.198	1.4	1.4	ng/g

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

June 27, 2024 SDG I.D.: GCQ94995

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

Sarah Bell

From: Zachary Hawk <ZHawk@tighebond.com>
Sent: Friday, June 14, 2024 12:14 PM
To: Sample Receiving - Phoenix Labs; Sarah Bell
Cc: Mark Paulsson; Brian Sirowich
Subject: RE: Phoenix Labs - GCQ94995, OLSON DRIVE - COC Acknowledgement
Attachments: doc00851020240614111020.pdf

Hey Sarah,

Happy Friday. I've attached a corrected version of the COC with some additional samples to be run. Could you please update the sampling log to reflect these changes.

Thanks, Zac

Zachary Hawk
Project Environmental Scientist I
Tighe&Bond
m. 203.747.4991

213 Court St, Middletown, CT 06457
w: tighebond.com | halvorsondesign.com

From: SampleReceiving@phoenixlabs.com <SampleReceiving@phoenixlabs.com>
Sent: Thursday, June 13, 2024 8:18 PM
To: Zachary Hawk <ZHawk@tighebond.com>
Subject: Phoenix Labs - GCQ94995, OLSON DRIVE - COC Acknowledgement

[Caution - External Sender]

This is an automated sample acknowledgement.

If you were issued a Phoenix Price Quote # for this SDG and it was not listed on the chain, please email client services with the quote number so we can ensure proper invoicing. If no quote was issued, no further action is required.

Purchase Order#: 105093011

Samples Will Be Disposed After: 30 Days

* Important PFAS Items to Note: Please inform your project or account manager of samples with know or expected high PFAS values, or matrices such as IDW, carbon, solvent waste, or pure products (AFFF) due to their complex matrix and potential for interferences. This will enable the analyzing laboratory to avoid possible instrument downtime due to carryover. If such samples result in the need for extensive instrument cleanup, at a minimum a charge equal to the analytical rate will be incurred.

GCQ94995 Criteria:
SOIL(27): CT GAM (GA Mobility), CT RC (Res. Criteria)
WATER(1): CT GAM (GA Mobility), CT RC (Res. Criteria)

Please email client services only if you require criteria different than what is listed. Criteria added post-reporting requires re-evaluation of data and possible re-analysis therefore charges may apply. Project objectives not communicated at time of submittal may not be achieved.

Delivery group GCQ94995 (OLSON DRIVE) has been logged in for the following samples:

Phoenix Id	Client Id
CQ94995	B-102 (0-2)
CQ94996	B-102 (2-4)
CQ94997	B-102 (4-6)
CQ94998	B-102 (10-12)
CQ94999	B-105 (0-1)
CQ95000	B-105 (1-2)
CQ95001	B-105 (2-3)
CQ95002	B-105 (3-4)
CQ95003	B-105 (4-5)
CQ95004	FIELD BLANK

CQ95005	TB-105 (0-1)
CQ95006	TB-105 (1-2)
CQ95007	TB-118 (4-6)
CQ95008	TB-118 (6-8)
CQ95009	TB-118 (8-10)
CQ95010	TB-117 (4-6)
CQ95011	TB-117 (6-8)
CQ95012	TB-117 (8-10)
CQ95013	TB-116 (0-2)
CQ95014	TB-116 (2-4)
CQ95015	TB-116 (4-6)
CQ95016	TB-116 (6-8)
CQ95017	TB-116 (8-10)
CQ95018	TB-115 (4-6)
CQ95019	TB-115 (6-8)
CQ95020	TB-115 (8-10)
CQ95021	TB-105 (2-3)
CQ95022	TB-105 (3-4)

This SDG has been logged in for Standard 15 business day turn-around time.

The samples were received at 2.1C with cooling initiated. (Note acceptance criteria for relevant matrices is above freezing up to 6°C)

If there are any questions regarding this submittal, please call Phoenix Client Services at extension 200.

Thank you for your business,

Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
P.O. Box 370

Manchester, CT 06374
Tel. (860) 645-1102
Fax. (860) 645-0823
www.phoenixlabs.com

Please do not reply to this email.
cc'd:jllibby@tighebond.com;bsirowich@tighebond.com;MPaulsson@TigheBond.com;jjackson@tighebond.com;bgiroux@tighebond.com;zhawk@tighebond.com

Cooler: Yes ☒ No ☐
Coolant: IPK ☑ ICE ☐ No ☐

PHOENIX
Environmental Laboratories, Inc.

CT/MA/RI CHAIN OF CUSTODY RECORD

Temp 2.1 °C Pg of

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: makrina@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

Data Delivery/Contact Options:
☐ Fax: _____
☐ Phone: _____
■ Email: On File

Customer: Tighe & Bond
Address: 213 Court Street, Suite 1100
Middletown, CT 06457

Project: Olson Drive
Report to: Brian Sirowich, Mark Paulsson, Jill Libby, Zac Hawk, Ben Giroux
Invoice to: Tighe & Bond Westfield
Quote # DAS Rates

Project P.O: 105093011

This section MUST be completed with Bottle Quantities.

Sampler's Signature: Zac Hawk Date: 9/13/24

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = _____(Other)

Client Sample - Information - Identification

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Hold PFAS 1633	DFA Plastic	GL Amber 8 oz. [ ] w/H_3PO_4 [ ] $NAHSO_4$	Soil VOA Vials [ ] methanol [ ] H_2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H_2SO_4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H_2SO_4 [ ] 250ml [ ] 500ml [ ] 1000ml	PL HNO_3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
94995	B-102 (0-2)	S	6/13/24	9:30	X									1				
94996	B-102 (2-4)			9:32	X									1				
94997	B-102 (4-6)			9:34	X									1				
94998	B-102 (10-12)			9:45	X									1				
94999	B-105 (0-1)			9:10		X								1				
95000	B-105 (1-2)			9:12	X									1				
95001	B-105 (2-3)			9:14	X									1				
95002	B-105 (3-4)			9:16	X									1				
95003	B-105 (4-5)			9:18	X									1				
95004	Field blank			2:30		X								2				
95005	TB-105 (0-1)			1444		X								1				
95006	TB-105 (0-2)			1446	X									1				

Relinquished by:	Accepted by:	Date:	Time:
Zac Hawk	Dominic Grimaldi	6/15	3:00
Dominic		6/15/24	16:30

Comments, Special Requirements or Regulations:

Turnaround Time:
☐ 1 Day* ☐ 2 Days* ☐ 3 Days* ☐ 4 Days* ☐ 5 Days*
☑ Standard ☐ Other _____
* SURCHARGES MAY APPLY

RI
☐ RES DEC
☐ I/C DEC
☐ GA Leachability
☐ GB Leachability
☐ GA -GW Objectives
☐ GB -GW Objectives
☐ Other

CT
☑ RCP Cert
☐ GWPC
☐ SWPC
☑ GA PMC
☐ GB PMC
☐ SWPC
☑ RES DEC
☐ I/C DEC

MA
☐ MCP Certification
☐ GW-1 ☐ RCS-1 / RCGW-1
☐ GW-2 ☐ RCS-2 / RCGW-2
☐ GW-3
☐ S-1 ☐ _____
☐ S-2
☐ S-3
☐ SW Protection

State where samples were collected: CT

Data Format
☑ Excel
☑ PDF
☐ GIS/Key
☐ EQuIS
☑ EnviroData

Data Package
☐ Tier II Checklist*
☐ Full Data Package*
☑ Phoenix Std
☐ Other

* SURCHARGE APPLIES

Cooler: Yes ☒ No ☐
Coolant: IPK ☑ ICE ☒ No ☐
Temp 2.1 °C Pg of

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Invoice to: Tighe & Bond Westfield
Quote # DAS Rates

Project P.O: 105093011

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 6/13/24

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = _____(Other)

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	40 ml	DI&F Plastic	GL Amber 8 oz. [ ] w/H_3PO_4 [ ] $NAHSO_4$	Soil VOA Vials [ ] methanol [ ] H_2O	GL Soil container( )oz	GL Soil container( )oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H_2SO_4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H_2SO_4 [ ] 250ml [ ] 500ml	PL HNO_3 250ml	PL NaOH 250ml	Bacteria Bottle w/hio	Bacteria Bottle as is
95007	TB-118 (4-6)	S	6/13/24	1315	X	1												
95008	TB-118 (6-8)			1317		1												
95009	TB-118 (8-10)			1319		1												
95010	TB-117(4-6)			1325		1												
95011	TB-117(6-8)			1327		1												
95012	TB-117(8-10)			1329		1												
95013	TB-116(0-2)			1335		1												
95014	TB-116(2-4)			1337		1												
95015	TB-116(4-6)			1339	[redacted]	1												
95016	TB-116(6-8)			1341		1												
95017	TB-116 (8-10)			1343		1												
95018	TB-115(4-6)			1350		1												

Relinquished by:	Accepted by:	Date:	Time:
[signature]	Dominic Grimaldi	6/13/24	3:00
Dominic G	[signature]	6/13/24	16:30

Comments, Special Requirements or Regulations:

Turnaround Time:
☐ 1 Day* ☑ Standard
☐ 2 Days* ☐ Other
☐ 3 Days*
☐ 4 Days*
☐ 5 Days*
* SURCHARGES MAY APPLY

RI
☐ RES DEC
☐ I/C DEC
☐ GA Leachability
☐ GB Leachability
☐ GA-GW Objectives
☐ GB-GW Objectives
☐ Other

CT
☑ RCP Cert
☐ GWPC
☐ SWPC
☑ GA PMC
☐ GB PMC
☐ SWPC
☑ RES DEC
☐ I/C DEC

MA
☐ MCP Certification
☐ GW-1 ☐ RCS-1 / RCGW-1
☐ GW-2 ☐ RCS-2 / RCGW-2
☐ GW-3 ☐ _____
☐ S-1
☐ S-2
☐ S-3
☐ SW Protection

State where samples were collected: CT

Data Format
☑ Excel
☑ PDF
☐ GIS/Key
☐ EQuIS
☑ EnviroData

Data Package
☐ Tier II Checklist*
☐ Full Data Package*
☑ Phoenix Std
☐ Other

* SURCHARGE APPLIES

Cooler: Yes [X] No [ ]
Coolant: IPK [✓] ICE [X] No [ ]
Temp 2.1 °C Pg of

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Invoice to: Tighe & Bond Westfield
Quote # DAS Rates

Project P.O: 105093011

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 6/13/24

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = _____(Other)

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Hold	1A Plastic	GL Amber 8 oz. [ ] w/H_3PO_4 [ ] $NAHSO_4$	Soil VOA Vials [ ] methanol [ ] H_2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H_2SO_4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H_2SO_4 [ ] 250ml [ ] 500ml	PL HNO_3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
95019	TB-115(6-8)	S	6/13/24	[redacted]1352	X	1												
95020	TB-115(8-10)	"	"	1354	X	1												
95021	TB-105(2-3)	"	"	1448	X	1												
95022	TB-105(3-4)	"	"	1450	X	1												

Relinquished by:	Accepted by:	Date:	Time:
[signature]	Dominic Grimaldi	6/13/24	3:00
Dominic G.	[signature]	6/13/24	16:30

Comments, Special Requirements or Regulations:

Turnaround Time:
[ ] 1 Day* [✓] Standard
[ ] 2 Days* [ ] Other _____
[ ] 3 Days*
[ ] 4 Days*
[ ] 5 Days*

* SURCHARGES MAY APPLY

RI
[ ] RES DEC
[ ] I/C DEC
[ ] GA Leachability
[ ] GB Leachability
[ ] GA -GW Objectives
[ ] GB -GW Objectives
[ ] Other

CT
[✓] RCP Cert
[ ] GWPC
[ ] SWPC
[✓] GA PMC
[ ] GB PMC
[ ] SWPC
[✓] RES DEC
[ ] I/C DEC

MA
[ ] MCP Certification
[ ] GW-1 [ ] RCS-1 / RCGW-1
[ ] GW-2 [ ] RCS-2 / RCGW-2
[ ] GW-3
[ ] S-1 [ ] _____
[ ] S-2
[ ] S-3
[ ] SW Protection

State where samples were collected: CT

Data Format
[✓] Excel
[✓] PDF
[ ] GIS/Key
[ ] EQuIS
[✓] EnviroData

Data Package
[ ] Tier II Checklist*
[ ] Full Data Package*
[✓] Phoenix Std
[ ] Other

* SURCHARGE APPLIES

Cooler: Yes ☒ No ☐
Coolant: IPK ☒ ICE ☐ No ☐
Temp 2.1 °C Pg of

PHOENIX Environmental Laboratories, Inc.

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☐ Fax:
☐ Phone:
■ Email: On File

Customer: Tighe & Bond
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Middletown, CT 06457

Project: Olson Drive
Report to: Brian Sirowich, Mark Paulsson, Jill Libby, Zac Hawk, Ben Giroux
Invoice to: Tighe & Bond Westfield
Quote #: DAS Rates

Project P.O: 105093011

This section MUST be completed with Bottle Quantities.

Sampler's Signature: Zac Hawk Date: 9/13/24

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
B=Bulk L=Liquid X = _____(Other)

PHOENIX USE ONLY SAMPLE #	Client Sample - Information - Identification: Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Hold PFAS 7633	DFA Plastic	GL Amber 8 oz. [ ] w/H3PO4 [ ] NaHSO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
94995 T	TB-102 (0-2)	S	6/13/24	9:30	X								1					
94996 T	TB-102 (2-4)			9:32	X								1					
94997 T	TB-102 (4-6)			9:34	X								1					
94998 T	TB-102 (10-12)			9:45	X								1					
94999 T	TB-104 (0-1)			9:10		X							1					
95000 T	TB-105 (1-2)			9:12	X								1					
95001 T	TB-105 (2-3)			9:14	X								1					
95002 T	TB-105 (3-4)			9:16	X								1					
95203 T	TB-105 (4-5)	↓	↓	9:18	X								1					
95204	Field blank	↓	↓	2:30		X							2					
95205	TB-105 (0-1)			1444		X							1					
95206	TB-105 (1-2)			1446	X								1					

Relinquished by:	Accepted by:	Date:	Time:
Zac Hawk	Dominic Grimaldi	6/15	3:00
DOMINICG		10/15/24	16:30

Comments, Special Requirements or Regulations:

Turnaround Time:
☐ 1 Day* ☑ Standard
☐ 2 Days* ☐ Other
☐ 3 Days*
☐ 4 Days*
☐ 5 Days*
*SURCHARGES MAY APPLY

RI
☐ RES DEC
☐ I/C DEC
☐ GA Leachability
☐ GB Leachability
☐ GA -GW Objectives
☐ GB -GW Objectives
☐ Other

CT
☑ RCP Cert
☐ GWPC
☐ SWPC
☑ GA PMC
☐ GB PMC
☐ SWPC
☑ RES DEC
☐ I/C DEC

MA
☐ MCP Certification
☐ GW-1 ☐ RCS-1 / RCGW-1
☐ GW-2 ☐ RCS-2 / RCGW-2
☐ GW-3 ☐ _____
☐ S-1
☐ S-2
☐ S-3
☐ SW Protection

State where samples were collected: CT

Data Format
☑ Excel
☑ PDF
☐ GIS/Key
☐ EQuIS
☑ EnviroData

Data Package
☐ Tier II Checklist*
☐ Full Data Package*
☑ Phoenix Std
☐ Other

*SURCHARGE APPLIES

Cooler: Yes ☒ No ☐
Coolant: IPK ☑ ICE ☒ No ☐

PHOENIX
Environmental Laboratories, Inc.

CT/MA/RI CHAIN OF CUSTODY RECORD

Temp 2.1°C Pg of

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Invoice to: Tighe & Bond Westfield
Quote # DAS Rates

Project P.O: 105093011

This section MUST be completed with Bottle Quantities.

Sampler's Signature: BSK Date: 6/13/24

Client Sample - Information - Identification

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
B=Bulk L=Liquid X = _____(Other)

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Hold	PFAS 1633	DUP-Plastic	GL Amber 8 oz. [ ] w/H3PO4 [ ] NAHSO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
95007	TB-118 (4-6)	S	6/13/24	1315	X	X						1							
95008	TB-118 (6-8)			1317								1							
95009	TB-118 (8-10)			1319								1							
95010	TB-117(4-6)			1325		X						1							
95011	TB-117(6-8)			1327								1							
95012	TB-117(8-10)			1329								1							
95013	TB-116(0-2)			1335								1							
95014	TB-116(2-4)			1337								1							
95015	TB-116(4-6)			1339		[redacted]						1							
95016	TB-116(6-8)			1341		X						1							
95017	TB-116 (8-10)			1343								1							
95018	TB-115(4-6)			1350		X						1							

Relinquished by:	Accepted by:	Date:	Time:
BSK	Dominic primary	6/13/24	3:00
Dominic 6		16/13/24	16:30 -

Comments, Special Requirements or Regulations:

Turnaround Time:
☐ 1 Day* ☑ Standard
☐ 2 Days* ☐ Other
☐ 3 Days*
☐ 4 Days*
☐ 5 Days*
*SURCHARGES MAY APPLY

RI
☐ RES DEC
☐ I/C DEC
☐ GA Leachability
☐ GB Leachability
☐ GA -GW Objectives
☐ GB -GW Objectives
☐ Other

CT
☑ RCP Cert
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☐ SWPC
☑ GA PMC
☐ GB PMC
☐ SWPC
☑ RES DEC
☐ I/C DEC

MA
☐ MCP Certification
☐ GW-1 ☐ RCS-1 / RCGW-1
☐ GW-2 ☐ RCS-2 / RCGW-2
☐ GW-3 ☐ _____
☐ S-1
☐ S-2
☐ S-3
☐ SW Protection

State where samples were collected: CT

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☑ Excel
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☐ GIS/Key
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☑ EnviroData

Data Package
☐ Tier II Checklist*
☐ Full Data Package*
☑ Phoenix Std
☐ Other

*SURCHARGE APPLIES

Cooler: Yes [X] No [ ]
Coolant: IPK [ ] ICE [X] No [ ]
Temp. 2 °C Pg of

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Invoice to: Tighe & Bond Westfield
Quote # DAS Rates

Project P.O: 105093011

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 6/13/24

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = _____(Other)

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Hold	4oz Plastic	GL Amber 8 oz [ ] w/H3PO4 [ ] NaHSO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) 1oz	GL Soil container ( ) 1oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] H2SO4	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thior	Bacteria Bottle as is
95019	TB-115(6-8)	S	6/13/24	1352	X								1					
95020	TB-115(8-10)			1354	X								1					
95021	TB-105(2-3)			1445	X								1					
95022	TB-105(3-4)			1450	X								1					

Relinquished by	Accepted by:	Date:	Time:
[signature]	DOMINIC Grimaldi	6/13/24	3:00
DOMINIC G	[signature]	6/13/24	16:30

Comments, Special Requirements or Regulations:

Turnaround Time:
[ ] 1 Day* [ ] 2 Days* [ ] 3 Days* [ ] 4 Days* [ ] 5 Days*
[ ] Standard [ ] Other
* SURCHARGES MAY APPLY

RI
[ ] RES DEC
[ ] I/C DEC
[ ] GA Leachability
[ ] GB Leachability
[ ] GA -GW Objectives
[ ] GB -GW Objectives
[ ] Other

CT
[x] RCP Cert
[ ] GWPC
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[x] GA PMC
[ ] GB PMC
[ ] SWPC
[x] RES DEC
[ ] I/C DEC

MA
[ ] MCP Certification
[ ] GW-1 [ ] RCS-1 / RCGW-1
[ ] GW-2 [ ] RCS-2 / RCGW-2
[ ] GW-3 [ ]
[ ] S-1
[ ] S-2
[ ] S-3
[ ] SW Protection

State where samples were collected: CT

Data Format
[x] Excel
[x] PDF
[ ] GIS/Key
[ ] EQuIS
[x] EnviroData

Data Package
[ ] Tier II Checklist*
[ ] Full Data Package*
[x] Phoenix Std
[ ] Other

* SURCHARGE APPLIES

Technical Report

prepared for:

Phoenix Environmental Laboratories, Inc.
P.O. Box 370, 587 East Middle Turnpike
Manchester CT, 06040
Attention: Helen Geoghegan

Report Date: 06/26/2024
Client Project ID: GCQ94995
York Project (SDG) No.: 24F1098

Stratford, CT Laboratory IDs:
NY:10854, NJ: CT005, PA: 68-0440, CT: PH-0723

Richmond Hill, NY Laboratory IDs:
NY:12058, NJ: NY037, CT: PH-0721, NH: 2097,
EPA: NY01600

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 06/26/2024
Client Project ID: GCQ94995
York Project (SDG) No.: 24F1098

Phoenix Environmental Laboratories, Inc.
P.O. Box 370, 587 East Middle Turnpike
Manchester CT, 06040
Attention: Helen Geoghegan

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on June 17, 2024 and listed below. The project was identified as your project: **GCQ94995**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
24F1098-01	CQ94999	Soil	06/13/2024	06/17/2024
24F1098-02	CQ95004	Water	06/13/2024	06/17/2024
24F1098-03	CQ95005	Soil	06/13/2024	06/17/2024
24F1098-04	CQ95007	Soil	06/13/2024	06/17/2024
24F1098-05	CQ95010	Soil	06/13/2024	06/17/2024
24F1098-06	CQ95016	Soil	06/13/2024	06/17/2024
24F1098-07	CQ95018	Soil	06/13/2024	06/17/2024

General Notes for York Project (SDG) No.: 24F1098

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854, NJ Cert No. CT005, PA Cert No. 68-04440, CT Cert No. PH-0723; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058, NJ Cert No. NY037, CT Cert No. PH-0721, NH Cert No. 2097, EPA Cert No. NY01600.

Approved By: Cassie L. Mosher

Date: 06/26/2024

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: CQ94999 **York Sample ID:** 24F1098-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1098	GCQ94995	Soil	June 13, 2024 9:10 am	06/17/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.117	0.186	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 15:52	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0557	0.210	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 15:52	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.110	0.210	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 15:52	ESJ
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.188	0.192	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 15:52	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.181	0.210	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 15:52	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.175	0.195	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 15:52	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.198	0.210	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 15:52	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.201	0.210	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 15:52	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.208	0.210	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 15:52	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.171	0.210	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 15:52	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.131	0.210	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 15:52	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.108	0.210	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 15:52	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.155	0.210	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 15:52	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.204	0.210	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 15:52	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.114	0.420	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 15:52	ESJ
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.153	0.210	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 15:52	ESJ
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.163	0.210	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 15:52	ESJ
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.201	0.203	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 15:52	ESJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.625	0.798	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 15:52	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.793	0.807	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 15:52	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.114	0.840	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 15:52	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.146	0.374	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 15:52	ESJ

Sample Information

Client Sample ID: CQ94999 **York Sample ID:** 24F1098-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1098	GCQ94995	Soil	June 13, 2024 9:10 am	06/17/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.203	0.420	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 15:52	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0651	0.420	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 15:52	ESJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.101	0.420	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 15:52	ESJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.165	0.197	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 15:52	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.625	0.788	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 15:52	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ug/kg dry	0.639	0.840	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 15:52	ESJ
763051-92-9	11CL-PF3OUdS	ND		ug/kg dry	0.327	0.794	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 15:52	ESJ
756426-58-1	9CL-PF3ONS	ND		ug/kg dry	0.258	0.786	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 15:52	ESJ
919005-14-4	ADONA	ND		ug/kg dry	0.183	0.794	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 15:52	ESJ
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND	PF-LCS-L	ug/kg dry	0.177	0.204	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 15:52	ESJ
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.130	0.202	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 15:52	ESJ
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.666	1.05	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 15:52	ESJ
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.20	5.25	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 15:52	ESJ
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.58	5.25	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 15:52	ESJ
24448-09-7	N-MeFOSE	ND		ug/kg dry	0.642	2.10	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 15:52	ESJ
31506-32-8	N-MeFOSA	ND		ug/kg dry	0.189	0.210	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 15:52	ESJ
1691-99-2	N-EtFOSE	ND		ug/kg dry	0.732	2.10	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 15:52	ESJ
4151-50-2	N-EtFOSA	ND		ug/kg dry	0.208	0.210	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 15:52	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*85.9 %*	*25-150*
Surrogate: M5PFHxA	*82.2 %*	*25-150*
Surrogate: M4PFHpA	*79.5 %*	*25-150*
Surrogate: M3PFHxS	*88.6 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*89.0 %*	*25-150*
Surrogate: M6PFDA	*77.6 %*	*25-150*
Surrogate: M7PFUdA	*74.3 %*	*25-150*

Sample Information

Client Sample ID: CQ94999 **York Sample ID:** 24F1098-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1098	GCQ94995	Soil	June 13, 2024 9:10 am	06/17/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*74.6 %*			*25-150*						
	Surrogate: M2PFTeDA	*51.2 %*			*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.75 %*	PFSu-L		*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*86.1 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*60.6 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*55.2 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*62.6 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*66.1 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*78.0 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*69.4 %*			*25-200*						
	Surrogate: M9PFNA	*78.6 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*73.1 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*33.4 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*30.8 %*			*25-150*						
	Surrogate: M3HFPO-DA	*86.9 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*35.7 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*45.3 %*			*25-150*						

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**95.2**		%	0.100	1	SM 2540G	06/18/2024 12:00	06/19/2024 09:54	AC
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: CQ95004 **York Sample ID:** 24F1098-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1098	GCQ94995	Water	June 13, 2024 2:30 pm	06/17/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: CQ95004 **York Sample ID:** 24F1098-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1098	GCQ94995	Water	June 13, 2024 2:30 pm	06/17/2024

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.464	1.75	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:22	ER
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ng/L	0.346	1.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:22	ER
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.701	1.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:22	ER
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.672	1.81	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:22	ER
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	0.415	1.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:22	ER
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.810	1.84	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:22	ER
375-95-1	**Perfluorononanoic acid (PFNA)**	**1.06**	J	ng/L	0.514	1.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:22	ER
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.741	1.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:22	ER
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.12	1.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:22	ER
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.869	1.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:22	ER
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.731	1.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:22	ER
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.682	1.98	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:22	ER
2355-31-9	N-MeFOSAA	ND		ng/L	0.781	1.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:22	ER
2991-50-6	N-EtFOSAA	ND		ng/L	1.02	1.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:22	ER
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ng/L	0.227	3.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:22	ER
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.869	1.98	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:22	ER
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.899	1.89	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:22	ER
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.30	1.91	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:22	ER
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	1.05	7.51	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:22	ER
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.03	7.59	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:22	ER
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.326	7.90	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:22	ER
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.494	3.52	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	06/20/2024 12:54	06/22/2024 13:22	ER
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.11	3.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	06/20/2024 12:54	06/22/2024 13:22	ER
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.247	3.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	06/20/2024 12:54	06/22/2024 13:22	ER

Sample Information

Client Sample ID: CQ95004 **York Sample ID:** 24F1098-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1098	GCQ94995	Water	June 13, 2024 2:30 pm	06/17/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.366	3.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	06/20/2024 12:54	06/22/2024 13:22	ER
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.751	1.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:22	ER
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.77	7.41	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:22	ER
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.19	7.90	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:22	ER
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.36	7.47	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:22	ER
756426-58-1	9CL-PF3ONS	ND		ng/L	0.692	7.39	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:22	ER
919005-14-4	ADONA	ND		ng/L	0.524	7.47	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:22	ER
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.919	1.92	1	EPA 1633 Draft 3 Certifications:	06/20/2024 12:54	06/22/2024 13:22	ER
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.850	1.90	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	06/20/2024 12:54	06/22/2024 13:22	ER
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	ND	PF-LCS-L	ng/L	2.01	4.94	1	EPA 1633 Draft 3 Certifications:	06/20/2024 12:54	06/22/2024 13:22	ER
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.24	24.7	1	EPA 1633 Draft 3 Certifications:	06/20/2024 12:54	06/22/2024 13:22	ER
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.36	24.7	1	EPA 1633 Draft 3 Certifications:	06/20/2024 12:54	06/22/2024 13:22	ER
24448-09-7	N-MeFOSE	ND		ng/L	3.94	19.8	1	EPA 1633 Draft 3 Certifications:	06/20/2024 12:54	06/22/2024 13:22	ER
31506-32-8	N-MeFOSA	ND		ng/L	1.56	1.98	1	EPA 1633 Draft 3 Certifications:	06/20/2024 12:54	06/22/2024 13:22	ER
1691-99-2	N-EtFOSE	ND		ng/L	3.94	19.8	1	EPA 1633 Draft 3 Certifications:	06/20/2024 12:54	06/22/2024 13:22	ER
4151-50-2	N-EtFOSA	ND		ng/L	1.78	1.98	1	EPA 1633 Draft 3 Certifications:	06/20/2024 12:54	06/22/2024 13:22	ER

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*93.6 %*	*25-150*
Surrogate: M5PFHxA	*95.6 %*	*25-150*
Surrogate: M4PFHpA	*93.7 %*	*25-150*
Surrogate: M3PFHxS	*95.6 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*109 %*	*25-150*
Surrogate: M6PFDA	*93.1 %*	*25-150*
Surrogate: M7PFUdA	*96.4 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*83.0 %*	*25-150*
Surrogate: M2PFTeDA	*65.9 %*	*10-150*

Sample Information

Client Sample ID: CQ95004 **York Sample ID:** 24F1098-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1098	GCQ94995	Water	June 13, 2024 2:30 pm	06/17/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.15 %*	PFSu-L		*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*102 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*40.5 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*91.6 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*86.8 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*92.4 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*92.2 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*83.2 %*			*25-200*						
	Surrogate: M9PFNA	*97.5 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*94.6 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*68.9 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*67.1 %*			*25-150*						
	Surrogate: M3HFPO-DA	*98.4 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*55.5 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*61.6 %*			*25-150*						

Sample Information

Client Sample ID: CQ95005 **York Sample ID:** 24F1098-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1098	GCQ94995	Soil	June 13, 2024 2:44 pm	06/17/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.118	0.189	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:08	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0566	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:08	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.112	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:08	ESJ
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.191	0.195	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:08	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.184	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:08	ESJ
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**0.516**		ug/kg dry	0.178	0.198	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:08	ESJ

Sample Information

Client Sample ID: CQ95005 **York Sample ID:** 24F1098-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1098	GCQ94995	Soil	June 13, 2024 2:44 pm	06/17/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.202	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:08	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.204	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:08	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.211	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:08	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.174	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:08	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.133	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:08	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.110	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:08	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.158	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:08	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.207	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:08	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.116	0.427	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:08	ESJ
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.156	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:08	ESJ
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.165	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:08	ESJ
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.204	0.206	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:08	ESJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.635	0.811	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:08	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.806	0.820	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:08	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.116	0.854	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:08	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.148	0.380	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:08	ESJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.206	0.427	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:08	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0662	0.427	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:08	ESJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.102	0.427	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:08	ESJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.168	0.201	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:08	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.635	0.800	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:08	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ug/kg dry	0.649	0.854	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:08	ESJ
763051-92-9	11CL-PF3OUdS	ND		ug/kg dry	0.332	0.807	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:08	ESJ

Sample Information

Client Sample ID: CQ95005 **York Sample ID:** 24F1098-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1098	GCQ94995	Soil	June 13, 2024 2:44 pm	06/17/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
756426-58-1	9CL-PF3ONS	ND		ug/kg dry	0.263	0.798	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:08	ESJ
919005-14-4	ADONA	ND		ug/kg dry	0.186	0.807	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:08	ESJ
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND	PF-LCS-L	ug/kg dry	0.180	0.207	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:08	ESJ
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.132	0.205	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:08	ESJ
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.677	1.07	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:08	ESJ
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.24	5.34	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:08	ESJ
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.60	5.34	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:08	ESJ
24448-09-7	N-MeFOSE	ND		ug/kg dry	0.652	2.13	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:08	ESJ
31506-32-8	N-MeFOSA	ND		ug/kg dry	0.192	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:08	ESJ
1691-99-2	N-EtFOSE	ND		ug/kg dry	0.744	2.13	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:08	ESJ
4151-50-2	N-EtFOSA	ND		ug/kg dry	0.211	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:08	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*87.1 %*	*25-150*
Surrogate: M5PFHxA	*93.7 %*	*25-150*
Surrogate: M4PFHpA	*82.7 %*	*25-150*
Surrogate: M3PFHxS	*94.3 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*96.7 %*	*25-150*
Surrogate: M6PFDA	*75.0 %*	*25-150*
Surrogate: M7PFUdA	*79.5 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*71.5 %*	*25-150*
Surrogate: M2PFTeDA	*58.6 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*89.6 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*91.3 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*92.8 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*53.7 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*64.9 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*59.2 %*	*25-150*
Surrogate: M2-6:2 FTS	*98.1 %*	*25-200*

Sample Information

Client Sample ID: CQ95005 **York Sample ID:** 24F1098-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1098	GCQ94995	Soil	June 13, 2024 2:44 pm	06/17/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M2-8:2 FTS	*72.6 %*			*25-200*						
	Surrogate: M9PFNA	*92.0 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*92.0 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*38.1 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*28.3 %*			*25-150*						
	Surrogate: M3HFPO-DA	*104 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*36.5 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*46.7 %*			*25-150*						

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**93.7**		%	0.100	1	SM 2540G	06/18/2024 12:00	06/19/2024 09:54	AC
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: CQ95007 **York Sample ID:** 24F1098-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1098	GCQ94995	Soil	June 13, 2024 1:15 pm	06/17/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.116	0.184	1	EPA 1633 Draft 3	06/24/2024 13:26	06/26/2024 16:24	ESJ
								Certifications: NELAC-NH2097 ,NJDEP-NY037			
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0552	0.208	1	EPA 1633 Draft 3	06/24/2024 13:26	06/26/2024 16:24	ESJ
								Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037			
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.109	0.208	1	EPA 1633 Draft 3	06/24/2024 13:26	06/26/2024 16:24	ESJ
								Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037			
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.186	0.191	1	EPA 1633 Draft 3	06/24/2024 13:26	06/26/2024 16:24	ESJ
								Certifications: NELAC-NH2097 ,NJDEP-NY037			
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.179	0.208	1	EPA 1633 Draft 3	06/24/2024 13:26	06/26/2024 16:24	ESJ
								Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037			
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**0.756**		ug/kg dry	0.174	0.194	1	EPA 1633 Draft 3	06/24/2024 13:26	06/26/2024 16:24	ESJ
								Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037			
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.197	0.208	1	EPA 1633 Draft 3	06/24/2024 13:26	06/26/2024 16:24	ESJ
								Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037			

Sample Information

Client Sample ID: CQ95007 **York Sample ID:** 24F1098-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1098	GCQ94995	Soil	June 13, 2024 1:15 pm	06/17/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.199	0.208	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:24	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.206	0.208	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:24	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.170	0.208	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:24	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.130	0.208	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:24	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.107	0.208	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:24	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.154	0.208	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:24	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.202	0.208	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:24	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.114	0.417	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:24	ESJ
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.152	0.208	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:24	ESJ
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.161	0.208	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:24	ESJ
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.199	0.201	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:24	ESJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.620	0.792	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:24	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.786	0.800	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:24	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.114	0.833	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:24	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.145	0.371	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:24	ESJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.201	0.417	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:24	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0646	0.417	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:24	ESJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.100	0.417	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:24	ESJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.164	0.196	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:24	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.620	0.781	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:24	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ug/kg dry	0.633	0.833	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:24	ESJ
763051-92-9	11CL-PF3OUdS	ND		ug/kg dry	0.324	0.787	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:24	ESJ
756426-58-1	9CL-PF3ONS	ND		ug/kg dry	0.256	0.779	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:24	ESJ

Sample Information

Client Sample ID: CQ95007 **York Sample ID:** 24F1098-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1098	GCQ94995	Soil	June 13, 2024 1:15 pm	06/17/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
919005-14-4	ADONA	ND		ug/kg dry	0.181	0.787	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:24	ESJ
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND	PF-LCS-L	ug/kg dry	0.176	0.202	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:24	ESJ
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.129	0.200	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:24	ESJ
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.660	1.04	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:24	ESJ
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.19	5.21	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:24	ESJ
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.56	5.21	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:24	ESJ
24448-09-7	N-MeFOSE	ND		ug/kg dry	0.636	2.08	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:24	ESJ
31506-32-8	N-MeFOSA	ND		ug/kg dry	0.187	0.208	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:24	ESJ
1691-99-2	N-EtFOSE	ND		ug/kg dry	0.726	2.08	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:24	ESJ
4151-50-2	N-EtFOSA	ND		ug/kg dry	0.206	0.208	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:24	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*89.1 %*	*25-150*
Surrogate: M5PFHxA	*84.7 %*	*25-150*
Surrogate: M4PFHpA	*76.8 %*	*25-150*
Surrogate: M3PFHxS	*94.4 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*105 %*	*25-150*
Surrogate: M6PFDA	*83.6 %*	*25-150*
Surrogate: M7PFUdA	*73.5 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*60.0 %*	*25-150*
Surrogate: M2PFTeDA	*40.7 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*91.9 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*93.2 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*88.2 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*70.6 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*59.0 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*58.2 %*	*25-150*
Surrogate: M2-6:2 FTS	*72.2 %*	*25-200*
Surrogate: M2-8:2 FTS	*68.3 %*	*25-200*

Sample Information

Client Sample ID: CQ95007 **York Sample ID:** 24F1098-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1098	GCQ94995	Soil	June 13, 2024 1:15 pm	06/17/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M9PFNA	*96.6 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*67.2 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*43.9 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*28.9 %*			*25-150*						
	Surrogate: M3HFPO-DA	*97.2 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*36.8 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*51.9 %*			*25-150*						

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**96.0**		%	0.100	1	SM 2540G	06/18/2024 12:00	06/19/2024 09:54	AC
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: CQ95010 **York Sample ID:** 24F1098-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1098	GCQ94995	Soil	June 13, 2024 1:25 pm	06/17/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.118	0.188	1	EPA 1633 Draft 3	06/24/2024 13:26	06/26/2024 16:40	ESJ
								Certifications: NELAC-NH2097 ,NJDEP-NY037			
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0562	0.212	1	EPA 1633 Draft 3	06/24/2024 13:26	06/26/2024 16:40	ESJ
								Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037			
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.111	0.212	1	EPA 1633 Draft 3	06/24/2024 13:26	06/26/2024 16:40	ESJ
								Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037			
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.190	0.194	1	EPA 1633 Draft 3	06/24/2024 13:26	06/26/2024 16:40	ESJ
								Certifications: NELAC-NH2097 ,NJDEP-NY037			
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.182	0.212	1	EPA 1633 Draft 3	06/24/2024 13:26	06/26/2024 16:40	ESJ
								Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037			
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.177	0.197	1	EPA 1633 Draft 3	06/24/2024 13:26	06/26/2024 16:40	ESJ
								Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037			
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.200	0.212	1	EPA 1633 Draft 3	06/24/2024 13:26	06/26/2024 16:40	ESJ
								Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037			

Sample Information

Client Sample ID: CQ95010 **York Sample ID:** 24F1098-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1098	GCQ94995	Soil	June 13, 2024 1:25 pm	06/17/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.203	0.212	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:40	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.210	0.212	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:40	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.173	0.212	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:40	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.133	0.212	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:40	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.109	0.212	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:40	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.157	0.212	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:40	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.206	0.212	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:40	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.116	0.424	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:40	ESJ
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.155	0.212	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:40	ESJ
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.164	0.212	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:40	ESJ
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.203	0.205	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:40	ESJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.631	0.806	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:40	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.801	0.814	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:40	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.116	0.848	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:40	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.147	0.377	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:40	ESJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.205	0.424	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:40	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0657	0.424	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:40	ESJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.102	0.424	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:40	ESJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.166	0.199	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:40	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.631	0.795	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:40	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ug/kg dry	0.645	0.848	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:40	ESJ
763051-92-9	11CL-PF3OUdS	ND		ug/kg dry	0.330	0.802	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:40	ESJ
756426-58-1	9CL-PF3ONS	ND		ug/kg dry	0.261	0.793	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:40	ESJ

Sample Information

Client Sample ID: CQ95010 **York Sample ID:** 24F1098-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1098	GCQ94995	Soil	June 13, 2024 1:25 pm	06/17/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
919005-14-4	ADONA	ND		ug/kg dry	0.185	0.802	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:40	ESJ
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND	PF-LCS-L	ug/kg dry	0.179	0.206	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:40	ESJ
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.131	0.204	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:40	ESJ
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.672	1.06	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:40	ESJ
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.22	5.30	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:40	ESJ
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.59	5.30	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:40	ESJ
24448-09-7	N-MeFOSE	ND		ug/kg dry	0.648	2.12	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:40	ESJ
31506-32-8	N-MeFOSA	ND		ug/kg dry	0.191	0.212	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:40	ESJ
1691-99-2	N-EtFOSE	ND		ug/kg dry	0.739	2.12	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:40	ESJ
4151-50-2	N-EtFOSA	ND		ug/kg dry	0.210	0.212	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:40	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*67.2 %*	*25-150*
Surrogate: M5PFHxA	*57.4 %*	*25-150*
Surrogate: M4PFHpA	*54.0 %*	*25-150*
Surrogate: M3PFHxS	*73.1 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*55.7 %*	*25-150*
Surrogate: M6PFDA	*49.9 %*	*25-150*
Surrogate: M7PFUdA	*44.1 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*33.3 %*	*25-150*
Surrogate: M2PFTeDA	*22.4 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*55.6 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*64.1 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*54.3 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*44.7 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*28.4 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*29.3 %*	*25-150*
Surrogate: M2-6:2 FTS	*31.3 %*	*25-200*
Surrogate: M2-8:2 FTS	*29.8 %*	*25-200*

Sample Information

Client Sample ID: CQ95010 **York Sample ID:** 24F1098-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1098	GCQ94995	Soil	June 13, 2024 1:25 pm	06/17/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M9PFNA	*48.8 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*26.1 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*44.2 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*42.6 %*			*25-150*						
	Surrogate: M3HFPO-DA	*71.8 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*29.8 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*44.2 %*			*25-150*						

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**94.3**		%	0.100	1	SM 2540G	06/18/2024 12:00	06/19/2024 09:54	AC
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: CQ95016 **York Sample ID:** 24F1098-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1098	GCQ94995	Soil	June 13, 2024 1:41 pm	06/17/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.116	0.185	1	EPA 1633 Draft 3	06/24/2024 13:26	06/26/2024 16:56	ESJ
								Certifications: NELAC-NH2097 ,NJDEP-NY037			
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0553	0.209	1	EPA 1633 Draft 3	06/24/2024 13:26	06/26/2024 16:56	ESJ
								Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037			
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.110	0.209	1	EPA 1633 Draft 3	06/24/2024 13:26	06/26/2024 16:56	ESJ
								Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037			
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.187	0.191	1	EPA 1633 Draft 3	06/24/2024 13:26	06/26/2024 16:56	ESJ
								Certifications: NELAC-NH2097 ,NJDEP-NY037			
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.179	0.209	1	EPA 1633 Draft 3	06/24/2024 13:26	06/26/2024 16:56	ESJ
								Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037			
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.174	0.194	1	EPA 1633 Draft 3	06/24/2024 13:26	06/26/2024 16:56	ESJ
								Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037			
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.197	0.209	1	EPA 1633 Draft 3	06/24/2024 13:26	06/26/2024 16:56	ESJ
								Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037			

Sample Information

Client Sample ID: CQ95016 **York Sample ID:** 24F1098-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1098	GCQ94995	Soil	June 13, 2024 1:41 pm	06/17/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.199	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:56	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.207	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:56	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.170	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:56	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.130	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:56	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.107	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:56	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.154	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:56	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.202	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:56	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.114	0.417	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:56	ESJ
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.152	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:56	ESJ
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.162	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:56	ESJ
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.199	0.201	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:56	ESJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.621	0.793	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:56	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.788	0.801	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:56	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.114	0.835	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:56	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.145	0.371	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:56	ESJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.201	0.417	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:56	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0647	0.417	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:56	ESJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.100	0.417	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:56	ESJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.164	0.196	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:56	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.621	0.782	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:56	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ug/kg dry	0.634	0.835	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:56	ESJ
763051-92-9	11CL-PF3OUdS	ND		ug/kg dry	0.324	0.789	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:56	ESJ
756426-58-1	9CL-PF3ONS	ND		ug/kg dry	0.257	0.780	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:56	ESJ

Sample Information

Client Sample ID: CQ95016 **York Sample ID:** 24F1098-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1098	GCQ94995	Soil	June 13, 2024 1:41 pm	06/17/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
919005-14-4	ADONA	ND		ug/kg dry	0.182	0.789	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:56	ESJ
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND	PF-LCS-L	ug/kg dry	0.176	0.202	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:56	ESJ
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.129	0.200	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 16:56	ESJ
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.661	1.04	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:56	ESJ
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.19	5.22	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:56	ESJ
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.56	5.22	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:56	ESJ
24448-09-7	N-MeFOSE	ND		ug/kg dry	0.637	2.09	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:56	ESJ
31506-32-8	N-MeFOSA	ND		ug/kg dry	0.188	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:56	ESJ
1691-99-2	N-EtFOSE	ND		ug/kg dry	0.727	2.09	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:56	ESJ
4151-50-2	N-EtFOSA	ND		ug/kg dry	0.207	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 16:56	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*89.7 %*	*25-150*
Surrogate: M5PFHxA	*85.4 %*	*25-150*
Surrogate: M4PFHpA	*85.7 %*	*25-150*
Surrogate: M3PFHxS	*93.2 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*88.4 %*	*25-150*
Surrogate: M6PFDA	*70.3 %*	*25-150*
Surrogate: M7PFUdA	*73.8 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*58.7 %*	*25-150*
Surrogate: M2PFTeDA	*35.1 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*88.7 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*85.9 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*88.9 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*62.9 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*63.3 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*61.9 %*	*25-150*
Surrogate: M2-6:2 FTS	*69.1 %*	*25-200*
Surrogate: M2-8:2 FTS	*67.9 %*	*25-200*

Sample Information

Client Sample ID: CQ95016 **York Sample ID:** 24F1098-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1098	GCQ94995	Soil	June 13, 2024 1:41 pm	06/17/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M9PFNA	*84.6 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*67.5 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*35.1 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*35.8 %*			*25-150*						
	Surrogate: M3HFPO-DA	*93.2 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*25.9 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*39.7 %*			*25-150*						

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**95.9**		%	0.100	1	SM 2540G	06/18/2024 12:00	06/19/2024 09:54	AC
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: CQ95018 **York Sample ID:** 24F1098-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1098	GCQ94995	Soil	June 13, 2024 1:50 pm	06/17/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.120	0.192	1	EPA 1633 Draft 3	06/24/2024 13:26	06/26/2024 17:12	ESJ
								Certifications: NELAC-NH2097 ,NJDEP-NY037			
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0574	0.217	1	EPA 1633 Draft 3	06/24/2024 13:26	06/26/2024 17:12	ESJ
								Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037			
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.114	0.217	1	EPA 1633 Draft 3	06/24/2024 13:26	06/26/2024 17:12	ESJ
								Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037			
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.194	0.198	1	EPA 1633 Draft 3	06/24/2024 13:26	06/26/2024 17:12	ESJ
								Certifications: NELAC-NH2097 ,NJDEP-NY037			
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.186	0.217	1	EPA 1633 Draft 3	06/24/2024 13:26	06/26/2024 17:12	ESJ
								Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037			
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**1.41**		ug/kg dry	0.181	0.201	1	EPA 1633 Draft 3	06/24/2024 13:26	06/26/2024 17:12	ESJ
								Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037			
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.205	0.217	1	EPA 1633 Draft 3	06/24/2024 13:26	06/26/2024 17:12	ESJ
								Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037			

Sample Information

Client Sample ID: CQ95018 **York Sample ID:** 24F1098-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1098	GCQ94995	Soil	June 13, 2024 1:50 pm	06/17/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.207	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 17:12	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.214	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 17:12	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.176	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 17:12	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.135	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 17:12	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.112	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 17:12	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.160	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 17:12	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.210	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 17:12	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.118	0.433	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 17:12	ESJ
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.158	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 17:12	ESJ
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.168	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 17:12	ESJ
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.207	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 17:12	ESJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.644	0.823	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 17:12	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.818	0.832	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 17:12	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.118	0.866	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	06/24/2024 13:26	06/26/2024 17:12	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.151	0.385	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 17:12	ESJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.209	0.433	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 17:12	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0671	0.433	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 17:12	ESJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.104	0.433	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 17:12	ESJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.170	0.204	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 17:12	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.644	0.812	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 17:12	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ug/kg dry	0.658	0.866	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 17:12	ESJ
763051-92-9	11CL-PF3OUdS	ND		ug/kg dry	0.337	0.819	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 17:12	ESJ
756426-58-1	9CL-PF3ONS	ND		ug/kg dry	0.266	0.810	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 17:12	ESJ

Sample Information

Client Sample ID: CQ95018 **York Sample ID:** 24F1098-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1098	GCQ94995	Soil	June 13, 2024 1:50 pm	06/17/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
919005-14-4	ADONA	ND		ug/kg dry	0.188	0.819	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 17:12	ESJ
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND	PF-LCS-L	ug/kg dry	0.183	0.210	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 17:12	ESJ
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.134	0.208	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	06/24/2024 13:26	06/26/2024 17:12	ESJ
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.686	1.08	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 17:12	ESJ
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.27	5.41	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 17:12	ESJ
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.62	5.41	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 17:12	ESJ
24448-09-7	N-MeFOSE	ND		ug/kg dry	0.662	2.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 17:12	ESJ
31506-32-8	N-MeFOSA	ND		ug/kg dry	0.195	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 17:12	ESJ
1691-99-2	N-EtFOSE	ND		ug/kg dry	0.755	2.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 17:12	ESJ
4151-50-2	N-EtFOSA	ND		ug/kg dry	0.214	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	06/24/2024 13:26	06/26/2024 17:12	ESJ

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*89.1 %*		*25-150*
Surrogate: M5PFHxA	*86.8 %*		*25-150*
Surrogate: M4PFHpA	*79.4 %*		*25-150*
Surrogate: M3PFHxS	*87.6 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*95.0 %*		*25-150*
Surrogate: M6PFDA	*76.9 %*		*25-150*
Surrogate: M7PFUdA	*67.4 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*64.1 %*		*25-150*
Surrogate: M2PFTeDA	*41.0 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*5.89 %*	PFSu-L	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*84.8 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*77.3 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*62.0 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*63.1 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*64.5 %*		*25-150*
Surrogate: M2-6:2 FTS	*73.7 %*		*25-200*
Surrogate: M2-8:2 FTS	*68.7 %*		*25-200*

Sample Information

Client Sample ID: CQ95018 **York Sample ID:** 24F1098-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1098	GCQ94995	Soil	June 13, 2024 1:50 pm	06/17/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M9PFNA	*87.4 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*67.4 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*45.6 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*42.7 %*			*25-150*						
	Surrogate: M3HFPO-DA	*90.2 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*36.3 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*50.3 %*			*25-150*						

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**92.4**		%	0.100	1	SM 2540G	06/18/2024 12:00	06/19/2024 09:54	AC
							Certifications: CTDOH-PH-0723			

Analytical Batch Summary

Batch ID: BF41168 **Preparation Method:** % Solids Prep **Prepared By:** AC

YORK Sample ID	Client Sample ID	Preparation Date
24F1098-01	CQ94999	06/18/24
24F1098-03	CQ95005	06/18/24
24F1098-04	CQ95007	06/18/24
24F1098-05	CQ95010	06/18/24
24F1098-06	CQ95016	06/18/24
24F1098-07	CQ95018	06/18/24
BF41168-DUP1	Duplicate	06/18/24

Batch ID: BF41354 **Preparation Method:** EPA 1633 Prep **Prepared By:** DRF

YORK Sample ID	Client Sample ID	Preparation Date
24F1098-02	CQ95004	06/20/24
BF41354-BLK1	Blank	06/20/24
BF41354-BS1	LCS	06/20/24
BF41354-BS2	LCS	06/20/24
BF41354-DUP1	Duplicate	06/20/24

Batch ID: BF41355 **Preparation Method:** EPA 1633 Prep **Prepared By:** SAB

YORK Sample ID	Client Sample ID	Preparation Date
24F1098-01	CQ94999	06/24/24
24F1098-03	CQ95005	06/24/24
24F1098-04	CQ95007	06/24/24
24F1098-05	CQ95010	06/24/24
24F1098-06	CQ95016	06/24/24
24F1098-07	CQ95018	06/24/24
BF41355-BLK1	Blank	06/24/24
BF41355-BS1	LCS	06/24/24
BF41355-BS2	LCS	06/24/24

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF41354 - EPA 1633 Prep											
Blank (BF41354-BLK1)									Prepared: 06/20/2024 Analyzed: 06/22/2024		
Perfluorobutanesulfonic acid (PFBS)	ND	3.54	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	4.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	4.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	3.66	"								
Perfluorooctanoic acid (PFOA)	ND	4.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	3.72	"								
Perfluorononanoic acid (PFNA)	ND	4.00	"								
Perfluorodecanoic acid (PFDA)	ND	4.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	4.00	"								
Perfluorododecanoic acid (PFDoA)	ND	4.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	4.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	4.00	"								
N-MeFOSAA	ND	4.00	"								
N-EtFOSAA	ND	4.00	"								
Perfluoropentanoic acid (PFPeA)	ND	8.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	4.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	3.82	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	3.86	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	15.2	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	15.4	"								
Perfluoro-n-butanoic acid (PFBA)	ND	16.0	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	7.12	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	8.00	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	8.00	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	8.00	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	3.76	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	15.0	"								
HFPO-DA (Gen-X)	ND	16.0	"								
11CL-PF3OUdS	ND	15.1	"								
9CL-PF3ONS	ND	15.0	"								
ADONA	ND	15.1	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	3.88	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	3.84	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	10.0	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	50.0	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	50.0	"								
N-MeFOSE	ND	40.0	"								
N-MeFOSA	ND	4.00	"								
N-EtFOSE	ND	40.0	"								
N-EtFOSA	ND	4.00	"								
Surrogate: M3PFBS	*48.7*		*"*	*46.6*		*105*	*25-150*				
Surrogate: M5PFHxA	*49.7*		*"*	*50.0*		*99.5*	*25-150*				
Surrogate: M4PFHpA	*48.7*		*"*	*50.0*		*97.5*	*25-150*				
Surrogate: M3PFHxS	*50.7*		*"*	*47.4*		*107*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*56.7*		*"*	*50.0*		*113*	*25-150*				
Surrogate: M6PFDA	*23.9*		*"*	*25.0*		*95.6*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF41354 - EPA 1633 Prep											
Blank (BF41354-BLK1)								Prepared: 06/20/2024 Analyzed: 06/22/2024			
Surrogate: M7PFUdA	*24.3*		*ng/L*	*25.0*		*97.1*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*21.5*		*"*	*25.0*		*86.1*	*25-150*				
Surrogate: M2PFTeDA	*14.3*		*"*	*25.0*		*57.3*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.07*		*"*	*200*		*2.04*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*50.1*		*"*	*47.9*		*105*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*51.3*		*"*	*100*		*51.3*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*45.1*		*"*	*50.0*		*90.3*	*10-150*				
Surrogate: d3-N-MeFOSAA	*90.2*		*"*	*100*		*90.2*	*25-150*				
Surrogate: d5-N-EtFOSAA	*85.7*		*"*	*100*		*85.8*	*25-150*				
Surrogate: M2-6:2 FTS	*88.6*		*"*	*95.1*		*93.2*	*25-200*				
Surrogate: M2-8:2 FTS	*83.4*		*"*	*96.0*		*86.9*	*25-200*				
Surrogate: M9PFNA	*23.8*		*"*	*25.0*		*95.2*	*25-150*				
Surrogate: M2-4:2 FTS	*91.2*		*"*	*93.8*		*97.2*	*25-150*				
Surrogate: d-N-MeFOSA	*38.6*		*"*	*50.0*		*77.2*	*25-150*				
Surrogate: d-N-EtFOSA	*40.3*		*"*	*50.0*		*80.7*	*25-150*				
Surrogate: M3HFPO-DA	*205*		*"*	*200*		*103*	*25-150*				
Surrogate: d9-N-EtFOSE	*297*		*"*	*500*		*59.5*	*25-150*				
Surrogate: d7-N-MeFOSE	*321*		*"*	*500*		*64.1*	*25-150*				
LCS (BF41354-BS1)								Prepared: 06/20/2024 Analyzed: 06/22/2024			
Perfluorobutanesulfonic acid (PFBS)	60.9	3.54	ng/L	70.8		86.0	50-150				
Perfluorohexanoic acid (PFHxA)	69.5	4.00	"	80.0		86.9	50-150				
Perfluoroheptanoic acid (PFHpA)	68.2	4.00	"	80.0		85.2	50-150				
Perfluorohexanesulfonic acid (PFHxS)	62.4	3.66	"	73.2		85.3	50-150				
Perfluorooctanoic acid (PFOA)	60.6	4.00	"	80.0		75.7	50-150				
Perfluorooctanesulfonic acid (PFOS)	63.7	3.72	"	74.4		85.6	50-150				
Perfluorononanoic acid (PFNA)	65.3	4.00	"	80.0		81.7	50-150				
Perfluorodecanoic acid (PFDA)	66.4	4.00	"	80.0		83.0	50-150				
Perfluoroundecanoic acid (PFUnA)	80.5	4.00	"	80.0		101	50-150				
Perfluorododecanoic acid (PFDoA)	60.4	4.00	"	80.0		75.5	50-150				
Perfluorotridecanoic acid (PFTrDA)	78.9	4.00	"	80.0		98.6	50-150				
Perfluorotetradecanoic acid (PFTA)	67.4	4.00	"	80.0		84.2	50-150				
N-MeFOSAA	72.2	4.00	"	80.0		90.3	50-150				
N-EtFOSAA	73.5	4.00	"	80.0		91.9	50-150				
Perfluoropentanoic acid (PFPeA)	141	8.00	"	160		88.0	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	65.4	4.00	"	80.0		81.7	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	67.3	3.82	"	76.4		88.1	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	59.8	3.86	"	77.2		77.4	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	255	15.2	"	304		83.7	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	266	15.4	"	307		86.5	50-150				
Perfluoro-n-butanoic acid (PFBA)	214	16.0	"	320		66.8	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	129	7.12	"	142		90.6	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	135	8.00	"	160		84.5	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	20.4	8.00	"	160		12.8	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	189	8.00	"	160		118	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF41354 - EPA 1633 Prep											
LCS (BF41354-BS1)								Prepared: 06/20/2024 Analyzed: 06/22/2024			
Perfluoro-1-pentanesulfonate (PFPeS)	66.9	3.76	ng/L	75.2		88.9	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	249	15.0	"	300		83.1	50-150				
HFPO-DA (Gen-X)	138	16.0	"	160		86.2	50-150				
11CL-PF3OUdS	118	15.1	"	151		78.3	50-150				
9CL-PF3ONS	119	15.0	"	150		79.7	50-150				
ADONA	128	15.1	"	151		84.5	50-150				
Perfluorododecanesulfonic acid (PFDoS)	54.8	3.88	"	77.6		70.6	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	65.5	3.84	"	76.8		85.3	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	152	10.0	"	320		47.5	50-150	Low Bias			
3-Perfluoropentyl propanoic acid (FPePA)	1330	50.0	"	1600		83.1	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	1340	50.0	"	1600		84.0	50-150				
N-MeFOSE	629	40.0	"	800		78.7	50-150				
N-MeFOSA	60.2	4.00	"	80.0		75.2	50-150				
N-EtFOSE	667	40.0	"	800		83.3	50-150				
N-EtFOSA	68.0	4.00	"	80.0		85.0	50-150				
Surrogate: M3PFBS	*47.0*		"	*46.6*		*101*	*25-150*				
Surrogate: M5PFHxA	*53.2*		"	*50.0*		*106*	*25-150*				
Surrogate: M4PFHpA	*55.1*		"	*50.0*		*110*	*25-150*				
Surrogate: M3PFHxS	*52.9*		"	*47.4*		*112*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*57.9*		"	*50.0*		*116*	*25-150*				
Surrogate: M6PFDA	*27.8*		"	*25.0*		*111*	*25-150*				
Surrogate: M7PFUdA	*24.1*		"	*25.0*		*96.3*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*23.6*		"	*25.0*		*94.5*	*25-150*				
Surrogate: M2PFTeDA	*18.9*		"	*25.0*		*75.7*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.84*		"	*200*		*2.42*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*51.1*		"	*47.9*		*107*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*59.7*		"	*100*		*59.7*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*46.1*		"	*50.0*		*92.2*	*10-150*				
Surrogate: d3-N-MeFOSAA	*93.7*		"	*100*		*93.7*	*25-150*				
Surrogate: d5-N-EtFOSAA	*85.7*		"	*100*		*85.7*	*25-150*				
Surrogate: M2-6:2 FTS	*93.8*		"	*95.1*		*98.7*	*25-200*				
Surrogate: M2-8:2 FTS	*87.2*		"	*96.0*		*90.9*	*25-200*				
Surrogate: M9PFNA	*27.2*		"	*25.0*		*109*	*25-150*				
Surrogate: M2-4:2 FTS	*95.6*		"	*93.8*		*102*	*25-150*				
Surrogate: d-N-MeFOSA	*43.0*		"	*50.0*		*86.0*	*25-150*				
Surrogate: d-N-EtFOSA	*40.7*		"	*50.0*		*81.4*	*25-150*				
Surrogate: M3HFPO-DA	*227*		"	*200*		*113*	*25-150*				
Surrogate: d9-N-EtFOSE	*321*		"	*500*		*64.2*	*25-150*				
Surrogate: d7-N-MeFOSE	*366*		"	*500*		*73.1*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF41354 - EPA 1633 Prep											
LCS (BF41354-BS2)								Prepared: 06/20/2024 Analyzed: 06/22/2024			
Perfluorobutanesulfonic acid (PFBS)	12.0	3.54	ng/L	14.2		84.7	50-150				
Perfluorohexanoic acid (PFHxA)	12.1	4.00	"	16.0		75.6	50-150				
Perfluoroheptanoic acid (PFHpA)	12.4	4.00	"	16.0		77.7	50-150				
Perfluorohexanesulfonic acid (PFHxS)	12.6	3.66	"	14.6		86.2	50-150				
Perfluorooctanoic acid (PFOA)	13.0	4.00	"	16.0		81.5	50-150				
Perfluorooctanesulfonic acid (PFOS)	13.3	3.72	"	14.9		89.6	50-150				
Perfluorononanoic acid (PFNA)	12.5	4.00	"	16.0		78.4	50-150				
Perfluorodecanoic acid (PFDA)	11.8	4.00	"	16.0		73.9	50-150				
Perfluoroundecanoic acid (PFUnA)	13.8	4.00	"	16.0		86.2	50-150				
Perfluorododecanoic acid (PFDoA)	12.5	4.00	"	16.0		78.2	50-150				
Perfluorotridecanoic acid (PFTrDA)	13.7	4.00	"	16.0		85.5	50-150				
Perfluorotetradecanoic acid (PFTA)	12.6	4.00	"	16.0		78.9	50-150				
N-MeFOSAA	15.7	4.00	"	16.0		98.0	50-150				
N-EtFOSAA	13.3	4.00	"	16.0		82.9	50-150				
Perfluoropentanoic acid (PFPeA)	26.7	8.00	"	32.0		83.6	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	12.6	4.00	"	16.0		78.6	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	12.9	3.82	"	15.3		84.6	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	13.3	3.86	"	15.4		86.2	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	51.4	15.2	"	60.8		84.6	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	54.1	15.4	"	61.4		88.1	50-150				
Perfluoro-n-butanoic acid (PFBA)	37.6	16.0	"	64.0		58.7	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	23.2	7.12	"	28.5		81.4	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	22.8	8.00	"	32.0		71.3	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	4.25	8.00	"	32.0		13.3	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	34.8	8.00	"	32.0		109	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	14.7	3.76	"	15.0		97.7	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	49.7	15.0	"	60.0		82.8	50-150				
HFPO-DA (Gen-X)	26.3	16.0	"	32.0		82.2	50-150				
11CL-PF3OUdS	22.9	15.1	"	30.2		75.9	50-150				
9CL-PF3ONS	23.1	15.0	"	29.9		77.3	50-150				
ADONA	25.7	15.1	"	30.2		84.8	50-150				
Perfluorododecanesulfonic acid (PFDoS)	9.98	3.88	"	15.5		64.3	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	13.0	3.84	"	15.4		84.9	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	34.1	10.0	"	64.0		53.2	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	241	50.0	"	320		75.4	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	249	50.0	"	320		77.7	50-150				
N-MeFOSE	126	40.0	"	160		78.5	50-150				
N-MeFOSA	10.1	4.00	"	16.0		63.0	50-150				
N-EtFOSE	130	40.0	"	160		81.2	50-150				
N-EtFOSA	11.9	4.00	"	16.0		74.4	50-150				
Surrogate: M3PFBS	*45.6*		*"*	*46.6*		*98.0*	*25-150*				
Surrogate: M5PFHxA	*51.2*		*"*	*50.0*		*102*	*25-150*				
Surrogate: M4PFHpA	*51.7*		*"*	*50.0*		*103*	*25-150*				
Surrogate: M3PFHxS	*49.3*		*"*	*47.4*		*104*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*52.5*		*"*	*50.0*		*105*	*25-150*				
Surrogate: M6PFDA	*28.6*		*"*	*25.0*		*114*	*25-150*				
Surrogate: M7PFUdA	*26.1*		*"*	*25.0*		*104*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF41354 - EPA 1633 Prep											
LCS (BF41354-BS2)									Prepared: 06/20/2024 Analyzed: 06/22/2024		
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*24.8*		*ng/L*	*25.0*		*99.2*	*25-150*				
Surrogate: M2PFTeDA	*22.0*		*"*	*25.0*		*88.2*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*5.12*		*"*	*200*		*2.56*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*51.8*		*"*	*47.9*		*108*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*53.4*		*"*	*100*		*53.4*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*44.6*		*"*	*50.0*		*89.2*	*10-150*				
Surrogate: d3-N-MeFOSAA	*85.6*		*"*	*100*		*85.6*	*25-150*				
Surrogate: d5-N-EtFOSAA	*91.8*		*"*	*100*		*91.8*	*25-150*				
Surrogate: M2-6:2 FTS	*82.3*		*"*	*95.1*		*86.5*	*25-200*				
Surrogate: M2-8:2 FTS	*78.0*		*"*	*96.0*		*81.3*	*25-200*				
Surrogate: M9PFNA	*26.6*		*"*	*25.0*		*106*	*25-150*				
Surrogate: M2-4:2 FTS	*87.7*		*"*	*93.8*		*93.5*	*25-150*				
Surrogate: d-N-MeFOSA	*44.3*		*"*	*50.0*		*88.7*	*25-150*				
Surrogate: d-N-EtFOSA	*38.8*		*"*	*50.0*		*77.5*	*25-150*				
Surrogate: M3HFPO-DA	*212*		*"*	*200*		*106*	*25-150*				
Surrogate: d9-N-EtFOSE	*365*		*"*	*500*		*73.0*	*25-150*				
Surrogate: d7-N-MeFOSE	*379*		*"*	*500*		*75.9*	*25-150*				
Duplicate (BF41354-DUP1)	*Source sample: 24F1154-07 (Duplicate)								Prepared: 06/20/2024 Analyzed: 06/22/2024		
Perfluorobutanesulfonic acid (PFBS)	ND	1.52	ng/L		ND					30	
Perfluorohexanoic acid (PFHxA)	ND	1.71	"		ND					30	
Perfluoroheptanoic acid (PFHpA)	ND	1.71	"		ND					30	
Perfluorohexanesulfonic acid (PFHxS)	ND	1.57	"		ND					30	
Perfluorooctanoic acid (PFOA)	ND	1.71	"		ND					30	
Perfluorooctanesulfonic acid (PFOS)	ND	1.59	"		ND					30	
Perfluorononanoic acid (PFNA)	ND	1.71	"		ND					30	
Perfluorodecanoic acid (PFDA)	ND	1.71	"		ND					30	
Perfluoroundecanoic acid (PFUnA)	ND	1.71	"		ND					30	
Perfluorododecanoic acid (PFDoA)	ND	1.71	"		ND					30	
Perfluorotridecanoic acid (PFTrDA)	ND	1.71	"		ND					30	
Perfluorotetradecanoic acid (PFTA)	ND	1.71	"		ND					30	
N-MeFOSAA	ND	1.71	"		ND					30	
N-EtFOSAA	ND	1.71	"		ND					30	
Perfluoropentanoic acid (PFPeA)	ND	3.43	"		ND					30	
Perfluoro-1-octanesulfonamide (FOSA)	ND	1.71	"		ND					30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.64	"		ND					30	
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.65	"		ND					30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	6.51	"		ND					30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	6.58	"		ND					30	
Perfluoro-n-butanoic acid (PFBA)	ND	6.85	"		ND					30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.05	"		ND					30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.43	"		ND					30	
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	3.43	"		ND					30	
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	3.43	"		ND					30	
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.61	"		ND					30	

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF41354 - EPA 1633 Prep											
Duplicate (BF41354-DUP1)	*Source sample: 24F1154-07 (Duplicate)								Prepared: 06/20/2024 Analyzed: 06/22/2024		
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	6.42	ng/L		ND					30	
HFPO-DA (Gen-X)	ND	6.85	"		ND					30	
11CL-PF3OUdS	ND	6.48	"		ND					30	
9CL-PF3ONS	ND	6.41	"		ND					30	
ADONA	ND	6.48	"		ND					30	
Perfluorododecanesulfonic acid (PFDoS)	ND	1.66	"		ND					30	
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.64	"		ND					30	
3-Perfluoropropyl propanoic acid (FPrPA)	ND	4.28	"		ND					30	
3-Perfluoropentyl propanoic acid (FPePA)	ND	21.4	"		ND					30	
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	21.4	"		ND					30	
N-MeFOSE	ND	17.1	"		ND					30	
N-MeFOSA	ND	1.71	"		ND					30	
N-EtFOSE	ND	17.1	"		ND					30	
N-EtFOSA	ND	1.71	"		ND					30	
Surrogate: M3PFBS	*18.4*		"	*20.0*		*92.2*	*25-150*				
Surrogate: M5PFHxA	*17.3*		"	*21.4*		*80.9*	*25-150*				
Surrogate: M4PFHpA	*16.1*		"	*21.4*		*75.3*	*25-150*				
Surrogate: M3PFHxS	*18.5*		"	*20.3*		*91.3*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*20.9*		"	*21.4*		*97.6*	*25-150*				
Surrogate: M6PFDA	*10.2*		"	*10.7*		*95.3*	*25-150*				
Surrogate: M7PFUdA	*9.69*		"	*10.7*		*90.5*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*7.52*		"	*10.7*		*70.2*	*25-150*				
Surrogate: M2PFTeDA	*5.38*		"	*10.7*		*50.3*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.59*		"	*85.7*		*3.03*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*18.1*		"	*20.5*		*88.0*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*17.7*		"	*42.8*		*41.4*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*17.9*		"	*21.4*		*83.5*	*10-150*				
Surrogate: d3-N-MeFOSAA	*33.2*		"	*42.8*		*77.6*	*25-150*				
Surrogate: d5-N-EtFOSAA	*35.8*		"	*42.8*		*83.7*	*25-150*				
Surrogate: M2-6:2 FTS	*31.2*		"	*40.7*		*76.7*	*25-200*				
Surrogate: M2-8:2 FTS	*29.9*		"	*41.1*		*72.8*	*25-200*				
Surrogate: M9PFNA	*9.55*		"	*10.7*		*89.2*	*25-150*				
Surrogate: M2-4:2 FTS	*32.7*		"	*40.2*		*81.4*	*25-150*				
Surrogate: d-N-MeFOSA	*12.0*		"	*21.4*		*56.1*	*25-150*				
Surrogate: d-N-EtFOSA	*13.8*		"	*21.4*		*64.3*	*25-150*				
Surrogate: M3HFPO-DA	*73.1*		"	*85.7*		*85.3*	*25-150*				
Surrogate: d9-N-EtFOSE	*133*		"	*214*		*62.0*	*25-150*				
Surrogate: d7-N-MeFOSE	*149*		"	*214*		*69.6*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF41355 - EPA 1633 Prep											
Blank (BF41355-BLK1)									Prepared: 06/24/2024 Analyzed: 06/26/2024		
Perfluorobutanesulfonic acid (PFBS)	ND	0.177	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.200	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.200	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.183	"								
Perfluorooctanoic acid (PFOA)	ND	0.200	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.186	"								
Perfluorononanoic acid (PFNA)	ND	0.200	"								
Perfluorodecanoic acid (PFDA)	ND	0.200	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.200	"								
Perfluorododecanoic acid (PFDoA)	ND	0.200	"								
Perfluorotridecanoic acid (PFTrDA)	ND	0.200	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.200	"								
N-MeFOSAA	ND	0.200	"								
N-EtFOSAA	ND	0.200	"								
Perfluoropentanoic acid (PFPeA)	ND	0.400	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.200	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.200	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.193	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	0.760	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	0.768	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.800	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.356	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.400	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	0.400	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	0.400	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	0.188	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	0.750	"								
HFPO-DA (Gen-X)	ND	0.800	"								
11CL-PF3OUdS	ND	0.756	"								
9CL-PF3ONS	ND	0.748	"								
ADONA	ND	0.756	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	0.194	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.192	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	1.00	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	5.00	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	5.00	"								
N-MeFOSE	ND	2.00	"								
N-MeFOSA	ND	0.200	"								
N-EtFOSE	ND	2.00	"								
N-EtFOSA	ND	0.200	"								
Surrogate: M3PFBS	*2.15*		*"*	*2.33*		*92.3*	*25-150*				
Surrogate: M5PFHxA	*2.15*		*"*	*2.50*		*86.0*	*25-150*				
Surrogate: M4PFHpA	*2.05*		*"*	*2.50*		*81.9*	*25-150*				
Surrogate: M3PFHxS	*2.18*		*"*	*2.37*		*91.9*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.25*		*"*	*2.50*		*89.8*	*25-150*				
Surrogate: M6PFDA	*1.08*		*"*	*1.25*		*86.2*	*25-150*				
Surrogate: M7PFUdA	*1.18*		*"*	*1.25*		*94.7*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF41355 - EPA 1633 Prep											
Blank (BF41355-BLK1)									Prepared: 06/24/2024 Analyzed: 06/26/2024		
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.935*		*ug/kg wet*	*1.25*		*74.8*	*25-150*				
Surrogate: M2PFTeDA	*0.656*		*"*	*1.25*		*52.5*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*9.32*		*"*	*10.0*		*93.2*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.44*		*"*	*2.40*		*102*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*4.44*		*"*	*5.00*		*88.7*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*1.70*		*"*	*2.50*		*68.1*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.27*		*"*	*5.00*		*65.5*	*25-150*				
Surrogate: d5-N-EtFOSAA	*3.55*		*"*	*5.00*		*71.1*	*25-150*				
Surrogate: M2-6:2 FTS	*4.13*		*"*	*4.76*		*86.9*	*25-200*				
Surrogate: M2-8:2 FTS	*3.45*		*"*	*4.80*		*71.8*	*25-200*				
Surrogate: M9PFNA	*1.08*		*"*	*1.25*		*86.1*	*25-150*				
Surrogate: M2-4:2 FTS	*4.13*		*"*	*4.69*		*88.0*	*25-150*				
Surrogate: d-N-MeFOSA	*1.29*		*"*	*2.50*		*51.4*	*25-150*				
Surrogate: d-N-EtFOSA	*1.07*		*"*	*2.50*		*42.7*	*25-150*				
Surrogate: M3HFPO-DA	*9.84*		*"*	*10.0*		*98.4*	*25-150*				
Surrogate: d9-N-EtFOSE	*9.87*		*"*	*25.0*		*39.5*	*25-150*				
Surrogate: d7-N-MeFOSE	*14.6*		*"*	*25.0*		*58.5*	*25-150*				
LCS (BF41355-BS1)									Prepared: 06/24/2024 Analyzed: 06/26/2024		
Perfluorobutanesulfonic acid (PFBS)	3.28	0.177	ug/kg wet	3.54		92.5	50-150				
Perfluorohexanoic acid (PFHxA)	3.85	0.200	"	4.00		96.3	50-150				
Perfluoroheptanoic acid (PFHpA)	4.09	0.200	"	4.00		102	50-150				
Perfluorohexanesulfonic acid (PFHxS)	3.31	0.183	"	3.66		90.4	50-150				
Perfluorooctanoic acid (PFOA)	3.56	0.200	"	4.00		88.9	50-150				
Perfluorooctanesulfonic acid (PFOS)	3.06	0.186	"	3.72		82.4	50-150				
Perfluorononanoic acid (PFNA)	3.52	0.200	"	4.00		88.1	50-150				
Perfluorodecanoic acid (PFDA)	4.03	0.200	"	4.00		101	50-150				
Perfluoroundecanoic acid (PFUnA)	4.35	0.200	"	4.00		109	50-150				
Perfluorododecanoic acid (PFDoA)	3.81	0.200	"	4.00		95.2	50-150				
Perfluorotridecanoic acid (PFTrDA)	5.46	0.200	"	4.00		137	50-150				
Perfluorotetradecanoic acid (PFTA)	3.90	0.200	"	4.00		97.5	50-150				
N-MeFOSAA	3.78	0.200	"	4.00		94.6	50-150				
N-EtFOSAA	3.62	0.200	"	4.00		90.4	50-150				
Perfluoropentanoic acid (PFPeA)	7.67	0.400	"	8.00		95.9	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	3.67	0.200	"	4.00		91.8	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.55	0.200	"	3.82		92.9	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	2.87	0.193	"	3.86		74.3	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	14.4	0.760	"	15.2		94.8	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	13.5	0.768	"	15.4		88.1	50-150				
Perfluoro-n-butanoic acid (PFBA)	14.4	0.800	"	16.0		90.0	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	6.90	0.356	"	7.12		96.9	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	8.56	0.400	"	8.00		107	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	7.31	0.400	"	8.00		91.3	50-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	7.14	0.400	"	8.00		89.3	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	3.54	0.188	"	3.76		94.2	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF41355 - EPA 1633 Prep											
LCS (BF41355-BS1)								Prepared: 06/24/2024 Analyzed: 06/26/2024			
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	14.4	0.750	ug/kg wet	15.0		95.7	50-150				
HFPO-DA (Gen-X)	6.87	0.800	"	8.00		85.9	50-150				
11CL-PF3OUdS	5.29	0.756	"	7.56		70.0	50-150				
9CL-PF3ONS	5.56	0.748	"	7.48		74.3	50-150				
ADONA	6.21	0.756	"	7.56		82.2	50-150				
Perfluorododecanesulfonic acid (PFDoS)	2.23	0.194	"	3.88		57.5	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	3.11	0.192	"	3.84		80.9	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	15.6	1.00	"	16.0		97.2	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	80.0	5.00	"	80.0		100	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	78.4	5.00	"	80.0		98.1	50-150				
N-MeFOSE	35.9	2.00	"	40.0		89.7	50-150				
N-MeFOSA	3.65	0.200	"	4.00		91.3	50-150				
N-EtFOSE	42.3	2.00	"	40.0		106	50-150				
N-EtFOSA	4.11	0.200	"	4.00		103	50-150				
Surrogate: M3PFBS	*2.00*		*"*	*2.33*		*85.7*	*25-150*				
Surrogate: M5PFHxA	*2.13*		*"*	*2.50*		*85.1*	*25-150*				
Surrogate: M4PFHpA	*1.98*		*"*	*2.50*		*79.4*	*25-150*				
Surrogate: M3PFHxS	*2.07*		*"*	*2.37*		*87.3*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.35*		*"*	*2.50*		*94.1*	*25-150*				
Surrogate: M6PFDA	*0.821*		*"*	*1.25*		*65.6*	*25-150*				
Surrogate: M7PFUdA	*0.813*		*"*	*1.25*		*65.0*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.703*		*"*	*1.25*		*56.2*	*25-150*				
Surrogate: M2PFTeDA	*0.436*		*"*	*1.25*		*34.9*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*9.51*		*"*	*10.0*		*95.1*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.25*		*"*	*2.40*		*94.0*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*4.44*		*"*	*5.00*		*88.8*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*1.65*		*"*	*2.50*		*66.1*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.17*		*"*	*5.00*		*63.5*	*25-150*				
Surrogate: d5-N-EtFOSAA	*3.12*		*"*	*5.00*		*62.4*	*25-150*				
Surrogate: M2-6:2 FTS	*3.81*		*"*	*4.76*		*80.1*	*25-200*				
Surrogate: M2-8:2 FTS	*3.38*		*"*	*4.80*		*70.4*	*25-200*				
Surrogate: M9PFNA	*1.06*		*"*	*1.25*		*84.8*	*25-150*				
Surrogate: M2-4:2 FTS	*3.85*		*"*	*4.69*		*82.1*	*25-150*				
Surrogate: d-N-MeFOSA	*1.17*		*"*	*2.50*		*47.0*	*25-150*				
Surrogate: d-N-EtFOSA	*0.905*		*"*	*2.50*		*36.2*	*25-150*				
Surrogate: M3HFPO-DA	*9.55*		*"*	*10.0*		*95.5*	*25-150*				
Surrogate: d9-N-EtFOSE	*9.16*		*"*	*25.0*		*36.6*	*25-150*				
Surrogate: d7-N-MeFOSE	*12.7*		*"*	*25.0*		*50.9*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF41355 - EPA 1633 Prep											
LCS (BF41355-BS2)								Prepared: 06/24/2024 Analyzed: 06/26/2024			
Perfluorobutanesulfonic acid (PFBS)	0.633	0.177	ug/kg wet	0.708		89.5	50-150				
Perfluorohexanoic acid (PFHxA)	0.666	0.200	"	0.800		83.2	50-150				
Perfluoroheptanoic acid (PFHpA)	0.745	0.200	"	0.800		93.1	50-150				
Perfluorohexanesulfonic acid (PFHxS)	0.610	0.183	"	0.732		83.4	50-150				
Perfluorooctanoic acid (PFOA)	0.651	0.200	"	0.800		81.4	50-150				
Perfluorooctanesulfonic acid (PFOS)	0.598	0.186	"	0.744		80.4	50-150				
Perfluorononanoic acid (PFNA)	0.708	0.200	"	0.800		88.5	50-150				
Perfluorodecanoic acid (PFDA)	0.661	0.200	"	0.800		82.7	50-150				
Perfluoroundecanoic acid (PFUnA)	0.821	0.200	"	0.800		103	50-150				
Perfluorododecanoic acid (PFDoA)	0.785	0.200	"	0.800		98.1	50-150				
Perfluorotridecanoic acid (PFTrDA)	0.895	0.200	"	0.800		112	50-150				
Perfluorotetradecanoic acid (PFTA)	0.686	0.200	"	0.800		85.7	50-150				
N-MeFOSAA	0.701	0.200	"	0.800		87.6	50-150				
N-EtFOSAA	0.739	0.200	"	0.800		92.4	50-150				
Perfluoropentanoic acid (PFPeA)	1.45	0.400	"	1.60		90.8	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	0.689	0.200	"	0.800		86.1	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	0.790	0.200	"	0.764		103	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	0.662	0.193	"	0.772		85.7	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	2.97	0.760	"	3.04		97.8	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	2.97	0.768	"	3.07		96.6	50-150				
Perfluoro-n-butanoic acid (PFBA)	2.80	0.800	"	3.20		87.4	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.28	0.356	"	1.42		89.6	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1.79	0.400	"	1.60		112	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	1.41	0.400	"	1.60		88.1	50-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	1.37	0.400	"	1.60		85.8	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	0.720	0.188	"	0.752		95.8	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	2.71	0.750	"	3.00		90.4	50-150				
HFPO-DA (Gen-X)	1.25	0.800	"	1.60		78.4	50-150				
11CL-PF3OUdS	0.779	0.756	"	1.51		51.5	50-150				
9CL-PF3ONS	0.995	0.748	"	1.50		66.5	50-150				
ADONA	1.15	0.756	"	1.51		75.9	50-150				
Perfluorododecanesulfonic acid (PFDoS)	0.355	0.194	"	0.776		45.8	50-150	Low Bias			
Perfluoro-1-nonanesulfonic acid (PFNS)	0.686	0.192	"	0.768		89.3	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	2.71	1.00	"	3.20		84.8	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	15.1	5.00	"	16.0		94.4	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	14.8	5.00	"	16.0		92.4	50-150				
N-MeFOSE	7.04	2.00	"	8.00		88.0	50-150				
N-MeFOSA	0.894	0.200	"	0.800		112	50-150				
N-EtFOSE	8.34	2.00	"	8.00		104	50-150				
N-EtFOSA	ND	0.200	"	0.800			50-150	Low Bias			
Surrogate: M3PFBS	*2.39*		*"*	*2.33*		*102*	*25-150*				
Surrogate: M5PFHxA	*2.48*		*"*	*2.50*		*99.1*	*25-150*				
Surrogate: M4PFHpA	*2.30*		*"*	*2.50*		*92.0*	*25-150*				
Surrogate: M3PFHxS	*2.52*		*"*	*2.37*		*106*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.91*		*"*	*2.50*		*116*	*25-150*				
Surrogate: M6PFDA	*1.12*		*"*	*1.25*		*89.5*	*25-150*				
Surrogate: M7PFUdA	*0.953*		*"*	*1.25*		*76.2*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF41355 - EPA 1633 Prep											
LCS (BF41355-BS2)								Prepared: 06/24/2024 Analyzed: 06/26/2024			
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.709*		*ug/kg wet*	*1.25*		*56.7*	*25-150*				
Surrogate: M2PFTeDA	*0.545*		*"*	*1.25*		*43.6*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*10.6*		*"*	*10.0*		*106*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.19*		*"*	*2.40*		*91.6*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*5.09*		*"*	*5.00*		*102*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*1.84*		*"*	*2.50*		*73.7*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.43*		*"*	*5.00*		*68.7*	*25-150*				
Surrogate: d5-N-EtFOSAA	*3.19*		*"*	*5.00*		*63.9*	*25-150*				
Surrogate: M2-6:2 FTS	*4.02*		*"*	*4.76*		*84.6*	*25-200*				
Surrogate: M2-8:2 FTS	*3.39*		*"*	*4.80*		*70.5*	*25-200*				
Surrogate: M9PFNA	*1.11*		*"*	*1.25*		*88.6*	*25-150*				
Surrogate: M2-4:2 FTS	*3.97*		*"*	*4.69*		*84.7*	*25-150*				
Surrogate: d-N-MeFOSA	*1.12*		*"*	*2.50*		*44.7*	*25-150*				
Surrogate: d-N-EtFOSA	*0.942*		*"*	*2.50*		*37.7*	*25-150*				
Surrogate: M3HFPO-DA	*11.6*		*"*	*10.0*		*116*	*25-150*				
Surrogate: d9-N-EtFOSE	*8.90*		*"*	*25.0*		*35.6*	*25-150*				
Surrogate: d7-N-MeFOSE	*10.4*		*"*	*25.0*		*41.8*	*25-150*				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF41168 - % Solids Prep											
Duplicate (BF41168-DUP1)	*Source sample: 24F1098-07 (CQ95018)								Prepared: 06/18/2024 Analyzed: 06/19/2024		
% Solids	93.9	0.100	%		92.4				1.71	20	


YORK
ANALYTICAL LABORATORIES INC

Sample and Data Qualifiers Relating to This Work Order

PFSu-L	The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
PF-LCS-L	The LCS recovery for this PFAS compound was below control limits.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

24F1098

Cooler: Yes ✓ No ☐
Coolant: IPK ☐ ICE ☐ No ☐
Temp 4.7 C Pg of

PHOENIX Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Page 1 of 1
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
☐ Fax: 860-645-0823
☐ Phone: 800-827-5426
☐ Email: HelenG@PhoenixLabs.com

Customer: York Analytical Laboratories, Inc.
Address: 132-02 89th Avenue
Richmond Hill, NY

Project #: GCQ94995
Report to: HelenG@PhoenixLabs.com / Helen Geoghegan
Invoice to: AccountsPayable@PhoenixLabs.com
Quote# :

Project P.O: GCQ94995

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature _____ Date: _____

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Phoenix Sample ID	Sample Comment	Sample Matrix	Date Sampled	Time Sampled	Analysis Request: PFAS (40) by EPA 1633 EPA 1633 (draft)	500ml HDPE Plastic As Is	8oz HDPE Plastic As Is
CQ94999		SOIL	6/13/2024	9:10 AM	x	1	
CQ95004	FB	WTR	6/13/2024	2:30 PM	x		2
CQ95005		SOIL	6/13/2024	2:44 PM	x	1	
CQ95007		SOIL	6/13/2024	1:15 PM	x	1	
CQ95010		SOIL	6/13/2024	1:25 PM	x	1	
CQ95016		SOIL	6/13/2024	1:41 PM	x	1	
CQ95018		SOIL	6/13/2024	1:50 PM	x	1	

Relinquished by:	Accepted by:	Date:	Time:
Kate Bailey	Ryan Comma	6-17-24	0740
Ryan Comma	LLP	6/17/24	11:11
	Marcel	6/17/24	12:00
	Marcel	6/17/24	15:40

Comments, Special Requirements or Regulations:
VC2 6/17/24 15:40 2.8

Please send notice as soon as possible not exceeding 24 hours of obtaining valid data, of the results of all drinking water samples that exceed any EPA or Department-established maximum contaminant level, maximum residual disinfectant level or reportable concentration.

Please notify Phoenix Environmental Laboratories, Inc. immediately and prior to conducting analysis if certification is not held for the analyses requested.

Turnaround:
☐ 1 Day
☐ 2 Days
☐ 3 Days
☐ 5 Days
☐ 10 Days
☒ Standard
☐ Other_____

Report Type:
☒ Standard PDF
☐ Full Data Package
☐ NJ Reduced Deliverable
☐ NJ Full Deliverable
☐ NY ASP B

EDD Format:
☐ Excel
☐ GIS/Key
☐ EQuIS
☐ NJ Hazsite EDD
☐ NY EZ EDD (ASP)
☐ Other:_____

State Criteria:
CT: RCP
CT: GA Mobility
CT: Res. Criteria

What State were samples collected?
CT

PHOENIX
Environmental Laboratories, Inc.

Tuesday, July 02, 2024

Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: 105093011
SDG ID: GCQ95939
Sample ID#s: CQ95940, CQ95942, CQ95944, CQ95948, CQ95950, CQ95953 - CQ95954, CQ95960 - CQ95961, CQ95964, CQ95970, CQ95973, CQ95978 - CQ95979, CQ95982, CQ95985, CQ95988 - CQ95991, CQ95993 - CQ95996

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

SDG Comments

July 02, 2024

SDG I.D.: GCQ95939

CQ95948 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

Version 2
Samples TB-119, Lab ID CQ95988 and TB-120, Lab ID CQ95989 were requested for aromatic VOC past hold time.

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Sample Id Cross Reference

July 02, 2024

SDG I.D.: GCQ95939

Project ID: 105093011

Client Id	Lab Id	Matrix
TB-100 5-7	CQ95940	SOIL
TB-100 10-12.5	CQ95942	SOIL
TB-100 15-17.5	CQ95944	SOIL
TB-101 5-7.5	CQ95948	SOIL
TB-101 10-12.5	CQ95950	SOIL
TB-101 17.5-19.5	CQ95953	SOIL
TB-106 4-6	CQ95954	SOIL
TB-107 4-6	CQ95960	SOIL
TB-107 6-8	CQ95961	SOIL
TB-108 (5-7.5)	CQ95964	SOIL
TB-109 (5-7.5)	CQ95970	SOIL
TB-110 (5-7.5)	CQ95973	SOIL
TB-111 (10-12.5)	CQ95978	SOIL
TB-112 (5-7.5)	CQ95979	SOIL
TB-113 (5-7)	CQ95982	SOIL
TB-114 (5-7)	CQ95985	SOIL
TB-119 (7-9)	CQ95988	SOIL
TB-120 (7-9)	CQ95989	SOIL
TB-121 (5-7)	CQ95990	SOIL
TB-121 (9-11)	CQ95991	SOIL
TB-122 (7-9)	CQ95993	SOIL
TRIP BLANK LL	CQ95994	SOIL
DUP-1 (10-12.5)	CQ95995	SOIL
TRIP BLANK HL	CQ95996	SOIL

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Analysis Report

July 02, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	06/13/24	8:15
Location Code:	TIGHE-DAS	Received by:	B	06/14/24	16:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ95939
Phoenix ID: CQ95940

Project ID: 105093011
Client ID: TB-100 5-7

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Zinc	674	0.8	mg/Kg	1	06/17/24	TH	SW6010D
Percent Solid	88		%		06/14/24	R	SW846-%Solid
Total Metals Digest	Completed				06/14/24	J/P	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
July 02, 2024
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 02, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	06/13/24	8:25
Location Code:	TIGHE-DAS	Received by:	B	06/14/24	16:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ95939
Phoenix ID: CQ95942

Project ID: 105093011
Client ID: TB-100 10-12.5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Zinc	555	0.8	mg/Kg	1	06/17/24	TH	SW6010D
Percent Solid	86		%		06/14/24	R	SW846-%Solid
Total Metals Digest	Completed				06/14/24	J/P	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director
July 02, 2024
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 02, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	06/13/24	8:35
Location Code:	TIGHE-DAS	Received by:	B	06/14/24	16:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ95939
Phoenix ID: CQ95944

Project ID: 105093011
Client ID: TB-100 15-17.5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	06/17/24	th	SW6010D
Arsenic	6.70	0.72	mg/Kg	1	06/17/24	th	SW6010D
Barium	81.6	0.36	mg/Kg	1	06/17/24	th	SW6010D
Beryllium	0.36	0.29	mg/Kg	1	06/17/24	th	SW6010D
Cadmium	4.12	0.36	mg/Kg	1	06/17/24	th	SW6010D
Chromium	28.1	0.36	mg/Kg	1	06/17/24	th	SW6010D
Copper	1060	0.7	mg/kg	1	06/17/24	th	SW6010D
Mercury	0.16	0.03	mg/Kg	2	06/21/24	ZT	SW7471B
Nickel	23.2	0.36	mg/Kg	1	06/17/24	th	SW6010D
Lead	56.4	0.36	mg/Kg	1	06/17/24	th	SW6010D
Antimony	< 3.6	3.6	mg/Kg	1	06/17/24	th	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	06/17/24	th	SW6010D
Thallium	< 3.2	3.2	mg/Kg	1	06/17/24	th	SW6010D
Vanadium	31.0	0.36	mg/Kg	1	06/17/24	th	SW6010D
Zinc	907	0.7	mg/Kg	1	06/17/24	TH	SW6010D
Percent Solid	92		%		06/14/24	R	SW846-%Solid
Field Extraction	Completed				06/13/24		SW5035A
Mercury Digestion	Completed				06/21/24	AL/AL	SW7471B
Extraction of ETPH	Completed				06/14/24	R/H/X	SW3546
Total Metals Digest	Completed				06/14/24	J/P	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	140	53	mg/Kg	1	06/16/24	JRB	CTETPH
Identification	**		mg/Kg	1	06/16/24	JRB	CTETPH
QA/QC Surrogates							
% COD (surr)	89		%	1	06/16/24	JRB	50 - 150 %
% Terphenyl (surr)	115		%	1	06/16/24	JRB	50 - 150 %

Ver 2

Project ID: 105093011
Client ID: TB-100 15-17.5

Phoenix I.D.: CQ95944

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
1,1,1-Trichloroethane	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	3.7	ug/Kg	1	06/18/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
1,1-Dichloroethane	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
1,1-Dichloroethene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
1,1-Dichloropropene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
1,2,3-Trichloropropane	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/18/24	JLI	SW8260D
1,2-Dibromoethane	ND	0.61	ug/Kg	1	06/18/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
1,2-Dichloroethane	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
1,2-Dichloropropane	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
1,3-Dichloropropane	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
2,2-Dichloropropane	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
2-Chlorotoluene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
2-Hexanone	ND	31	ug/Kg	1	06/18/24	JLI	SW8260D
2-Isopropyltoluene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
4-Chlorotoluene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	31	ug/Kg	1	06/18/24	JLI	SW8260D
Acetone	ND	310	ug/Kg	1	06/18/24	JLI	SW8260D
Acrylonitrile	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
Benzene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
Bromobenzene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
Bromochloromethane	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
Bromodichloromethane	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
Bromoform	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
Bromomethane	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
Carbon Disulfide	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
Carbon tetrachloride	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
Chlorobenzene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
Chloroethane	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
Chloroform	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
Chloromethane	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
cis-1,3-Dichloropropene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
Dibromochloromethane	ND	3.7	ug/Kg	1	06/18/24	JLI	SW8260D
Dibromomethane	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
Dichlorodifluoromethane	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
Ethylbenzene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
Hexachlorobutadiene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
Isopropylbenzene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D

Project ID: 105093011
Client ID: TB-100 15-17.5

Phoenix I.D.: CQ95944

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
Methyl Ethyl Ketone	ND	37	ug/Kg	1	06/18/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	06/18/24	JLI	SW8260D
Methylene chloride	ND	12	ug/Kg	1	06/18/24	JLI	SW8260D
Naphthalene	1000	370	ug/Kg	50	06/18/24	JLI	SW8260D
n-Butylbenzene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
n-Propylbenzene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
o-Xylene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
p-Isopropyltoluene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
sec-Butylbenzene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
Styrene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
tert-Butylbenzene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
Tetrachloroethene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	06/18/24	JLI	SW8260D
Toluene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
Total Xylenes	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	06/18/24	JLI	SW8260D
Trichloroethene	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
Trichlorofluoromethane	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	12	ug/Kg	1	06/18/24	JLI	SW8260D
Vinyl chloride	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	1	06/18/24	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	06/18/24	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	06/18/24	JLI	70 - 130 %
% Toluene-d8	87		%	1	06/18/24	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	101		%	50	06/18/24	JLI	70 - 130 %
% Bromofluorobenzene (50x)	102		%	50	06/18/24	JLI	70 - 130 %
% Dibromofluoromethane (50x)	94		%	50	06/18/24	JLI	70 - 130 %
% Toluene-d8 (50x)	92		%	50	06/18/24	JLI	70 - 130 %
Oxygenates & Dioxane							
1,4-Dioxane	ND	100	ug/Kg	1	06/18/24	JLI	SW8260D (OXY)
Diethyl ether	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D (OXY)
Ethyl tert-butyl ether	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D (OXY)
tert-amyl methyl ether	ND	6.1	ug/Kg	1	06/18/24	JLI	SW8260D (OXY)

Project ID: 105093011 Phoenix I.D.: CQ95944

Client ID: TB-100 15-17.5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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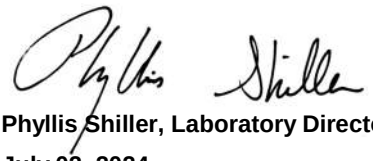

Phyllis Shiller, Laboratory Director

July 02, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
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Analysis Report

July 02, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	06/13/24	8:50
Location Code:	TIGHE-DAS	Received by:	B	06/14/24	16:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ95939
Phoenix ID: CQ95948

Project ID: 105093011
Client ID: TB-101 5-7.5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	0.69	0.36	mg/Kg	1	06/17/24	TH	SW6010D
Arsenic	5.98	0.73	mg/Kg	1	06/17/24	th	SW6010D
Barium	65.8	0.36	mg/Kg	1	06/17/24	th	SW6010D
Beryllium	0.38	0.29	mg/Kg	1	06/17/24	th	SW6010D
Cadmium	4.85	0.36	mg/Kg	1	06/17/24	th	SW6010D
Chromium	13.9	0.36	mg/Kg	1	06/17/24	th	SW6010D
Copper	3730	0.7	mg/kg	1	06/17/24	th	SW6010D
Mercury	0.06	0.03	mg/Kg	2	06/21/24	ZT	SW7471B
Nickel	31.2	0.36	mg/Kg	1	06/17/24	th	SW6010D
Lead	106	0.36	mg/Kg	1	06/17/24	th	SW6010D
Antimony	< 3.6	3.6	mg/Kg	1	06/17/24	th	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	06/17/24	th	SW6010D
SPLP Zinc	1.95	0.010	mg/L	1	06/21/24	TH	SW6010D
Thallium	< 3.3	3.3	mg/Kg	1	06/17/24	th	SW6010D
SPLP Metals Digestion	Completed				06/21/24	AL/AL	SW3010A
Vanadium	28.3	0.36	mg/Kg	1	06/17/24	th	SW6010D
Zinc	2040	0.7	mg/Kg	1	06/17/24	TH	SW6010D
Percent Solid	86		%		06/14/24	R	SW846-%Solid
Mercury Digestion	Completed				06/21/24	AL/AL	SW7471B
SPLP Extraction for Metals	Completed				06/20/24	AL	SW1312
Total Metals Digest	Completed				06/14/24	J/P	SW3050B
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
1,1,1-Trichloroethane	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D

Project ID: 105093011
Client ID: TB-101 5-7.5

Phoenix I.D.: CQ95948

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethane	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
1,1-Dichloroethene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
1,1-Dichloropropene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
1,2,3-Trichloropropane	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/18/24	JLI	SW8260D
1,2-Dibromoethane	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
1,2-Dichloroethane	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
1,2-Dichloropropane	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
1,3-Dichloropropane	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
2,2-Dichloropropane	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
2-Chlorotoluene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
2-Hexanone	ND	30	ug/Kg	1	06/18/24	JLI	SW8260D
2-Isopropyltoluene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
4-Chlorotoluene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	30	ug/Kg	1	06/18/24	JLI	SW8260D
Acetone	ND	120	ug/Kg	1	06/18/24	JLI	SW8260D
Acrylonitrile	ND	10	ug/Kg	1	06/18/24	JLI	SW8260D
Benzene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Bromobenzene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Bromochloromethane	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Bromodichloromethane	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Bromoform	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Bromomethane	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Carbon Disulfide	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Carbon tetrachloride	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Chlorobenzene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Chloroethane	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Chloroform	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Chloromethane	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
cis-1,3-Dichloropropene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Dibromochloromethane	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Dibromomethane	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Dichlorodifluoromethane	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Ethylbenzene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Hexachlorobutadiene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Isopropylbenzene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
m&p-Xylene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Methyl Ethyl Ketone	ND	30	ug/Kg	1	06/18/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	06/18/24	JLI	SW8260D
Methylene chloride	ND	12	ug/Kg	1	06/18/24	JLI	SW8260D
Naphthalene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D

Project ID: 105093011
Client ID: TB-101 5-7.5

Phoenix I.D.: CQ95948

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Butylbenzene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
n-Propylbenzene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
o-Xylene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
p-Isopropyltoluene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
sec-Butylbenzene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Styrene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
tert-Butylbenzene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Tetrachloroethene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	06/18/24	JLI	SW8260D
Toluene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Total Xylenes	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	06/18/24	JLI	SW8260D
Trichloroethene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Trichlorofluoromethane	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Vinyl chloride	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	06/18/24	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	06/18/24	JLI	70 - 130 %
% Dibromofluoromethane	103		%	1	06/18/24	JLI	70 - 130 %
% Toluene-d8	93		%	1	06/18/24	JLI	70 - 130 %
Oxygenates & Dioxane							
1,4-Dioxane	ND	100	ug/Kg	1	06/18/24	JLI	SW8260D (OXY)
Diethyl ether	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D (OXY)
Di-isopropyl ether	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D (OXY)
Ethyl tert-butyl ether	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D (OXY)
tert-amyl methyl ether	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D (OXY)
Oxygenates & Dioxane							
1,4-Dioxane	ND	100	ug/Kg	1	06/18/24	JLI	SW8260D (OXY)
Diethyl ether	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D (OXY)
Ethyl tert-butyl ether	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D (OXY)
tert-amyl methyl ether	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D (OXY)
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	06/18/24	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	06/18/24	JLI	70 - 130 %
% Toluene-d8	93		%	1	06/18/24	JLI	70 - 130 %

Project ID: 105093011
Client ID: TB-101 5-7.5

Phoenix I.D.: CQ95948

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
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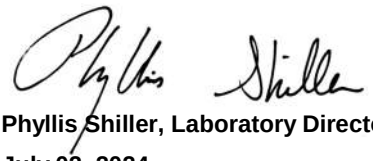

Phyllis Shiller, Laboratory Director
July 02, 2024
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 02, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	06/13/24	8:54
Location Code:	TIGHE-DAS	Received by:	B	06/14/24	16:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ95939
Phoenix ID: CQ95950

Project ID: 105093011
Client ID: TB-101 10-12.5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	3.93	0.43	mg/Kg	1	06/17/24	TH	SW6010D
Arsenic	14.8	0.86	mg/Kg	1	06/17/24	th	SW6010D
Barium	40.1	0.43	mg/Kg	1	06/17/24	th	SW6010D
Beryllium	0.39	0.34	mg/Kg	1	06/17/24	th	SW6010D
Cadmium	31.6	0.43	mg/Kg	1	06/17/24	th	SW6010D
Chromium	18.8	0.43	mg/Kg	1	06/17/24	th	SW6010D
Copper	21900	8.6	mg/kg	10	06/21/24	CPP	SW6010D
Mercury	0.08	0.03	mg/Kg	2	06/21/24	ZT	SW7471B
Nickel	149	0.43	mg/Kg	1	06/17/24	th	SW6010D
Lead	307	0.43	mg/Kg	1	06/17/24	th	SW6010D
Antimony	6.1	4.3	mg/Kg	1	06/17/24	TH	SW6010D
Selenium	< 1.7	1.7	mg/Kg	1	06/17/24	th	SW6010D
SPLP Zinc	23.9	0.010	mg/L	1	06/21/24	TH	SW6010D
Thallium	< 3.9	3.9	mg/Kg	1	06/17/24	th	SW6010D
SPLP Metals Digestion	Completed				06/21/24	AL/AL	SW3010A
Vanadium	33.9	0.43	mg/Kg	1	06/17/24	th	SW6010D
Zinc	26100	8.6	mg/Kg	10	06/18/24	CPP	SW6010D
Percent Solid	73		%		06/14/24	R	SW846-%Solid
Mercury Digestion	Completed				06/21/24	AL/AL	SW7471B
SPLP Extraction for Metals	Completed				06/20/24	AL	SW1312
Total Metals Digest	Completed				06/14/24	J/P	SW3050B

Project ID: 105093011
Client ID: TB-101 10-12.5

Phoenix I.D.: CQ95950

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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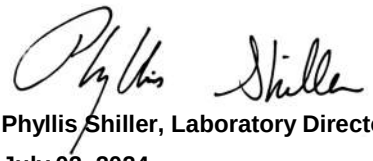

Phyllis Shiller, Laboratory Director

July 02, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 02, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	06/13/24	9:00
Location Code:	TIGHE-DAS	Received by:	B	06/14/24	16:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ95939
Phoenix ID: CQ95953

Project ID: 105093011
Client ID: TB-101 17.5-19.5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	15.1	0.36	mg/Kg	1	06/17/24	TH	SW6010D
Arsenic	33.8	0.73	mg/Kg	1	06/17/24	th	SW6010D
Barium	96.9	0.36	mg/Kg	1	06/17/24	th	SW6010D
Beryllium	0.65	0.29	mg/Kg	1	06/17/24	th	SW6010D
Cadmium	35.5	0.36	mg/Kg	1	06/17/24	th	SW6010D
Chromium	8.81	0.36	mg/Kg	1	06/17/24	th	SW6010D
Copper	59900	73	mg/kg	100	06/24/24	CPP	SW6010D
Mercury	0.03	0.03	mg/Kg	2	06/21/24	ZT	SW7471B
Nickel	213	0.36	mg/Kg	1	06/17/24	th	SW6010D
Lead	848	0.36	mg/Kg	1	06/17/24	th	SW6010D
Antimony	< 3.6	3.6	mg/Kg	1	06/17/24	th	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	06/17/24	th	SW6010D
SPLP Zinc	2.34	0.010	mg/L	1	06/21/24	TH	SW6010D
Thallium	< 3.3	3.3	mg/Kg	1	06/17/24	th	SW6010D
SPLP Metals Digestion	Completed				06/21/24	AL/AL	SW3010A
Vanadium	14.9	0.36	mg/Kg	1	06/17/24	th	SW6010D
Zinc	25500	7.3	mg/Kg	10	06/18/24	CPP	SW6010D
Percent Solid	89		%		06/14/24	R	SW846-%Solid
Field Extraction	Completed				06/13/24		SW5035A
Mercury Digestion	Completed				06/21/24	AL/AL	SW7471B
SPLP Extraction for Metals	Completed				06/20/24	AL	SW1312
Total Metals Digest	Completed				06/14/24	J/P	SW3050B
Volatiles							
1,1,1,2-Tetrachloroethane	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
1,1,1-Trichloroethane	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	4.7	ug/Kg	1	06/19/24	JLI	SW8260D

Project ID: 105093011
Client ID: TB-101 17.5-19.5

Phoenix I.D.: CQ95953

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1,2-Trichloroethane	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
1,1-Dichloroethane	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
1,1-Dichloroethene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
1,1-Dichloropropene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
1,2,3-Trichloropropane	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
1,2-Dibromoethane	ND	0.79	ug/Kg	1	06/19/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
1,2-Dichloroethane	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
1,2-Dichloropropane	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
1,3-Dichloropropane	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
2,2-Dichloropropane	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
2-Chlorotoluene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
2-Hexanone	ND	39	ug/Kg	1	06/19/24	JLI	SW8260D
2-Isopropyltoluene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
4-Chlorotoluene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	39	ug/Kg	1	06/19/24	JLI	SW8260D
Acetone	ND	390	ug/Kg	1	06/19/24	JLI	SW8260D
Acrylonitrile	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
Benzene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
Bromobenzene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
Bromochloromethane	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
Bromodichloromethane	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
Bromoform	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
Bromomethane	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
Carbon Disulfide	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
Carbon tetrachloride	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
Chlorobenzene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
Chloroethane	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
Chloroform	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
Chloromethane	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
cis-1,3-Dichloropropene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
Dibromochloromethane	ND	4.7	ug/Kg	1	06/19/24	JLI	SW8260D
Dibromomethane	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
Dichlorodifluoromethane	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
Ethylbenzene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
Hexachlorobutadiene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
Isopropylbenzene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
m&p-Xylene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
Methyl Ethyl Ketone	ND	47	ug/Kg	1	06/19/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	16	ug/Kg	1	06/19/24	JLI	SW8260D
Methylene chloride	ND	16	ug/Kg	1	06/19/24	JLI	SW8260D

Project ID: 105093011 Phoenix I.D.: CQ95953
Client ID: TB-101 17.5-19.5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Naphthalene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
n-Butylbenzene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
n-Propylbenzene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
o-Xylene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
p-Isopropyltoluene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
sec-Butylbenzene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
Styrene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
tert-Butylbenzene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
Tetrachloroethene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
Tetrahydrofuran (THF)	ND	16	ug/Kg	1	06/19/24	JLI	SW8260D
Toluene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
Total Xylenes	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	16	ug/Kg	1	06/19/24	JLI	SW8260D
Trichloroethene	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
Trichlorofluoromethane	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	16	ug/Kg	1	06/19/24	JLI	SW8260D
Vinyl chloride	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	06/19/24	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	06/19/24	JLI	70 - 130 %
% Dibromofluoromethane	102		%	1	06/19/24	JLI	70 - 130 %
% Toluene-d8	98		%	1	06/19/24	JLI	70 - 130 %
Oxygenates & Dioxane							
1,4-Dioxane	ND	100	ug/Kg	1	06/19/24	JLI	SW8260D (OXY)
Diethyl ether	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D (OXY)
Ethyl tert-butyl ether	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D (OXY)
tert-amyl methyl ether	ND	7.9	ug/Kg	1	06/19/24	JLI	SW8260D (OXY)

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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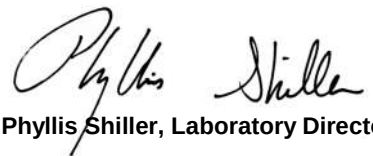

Phyllis Shiller, Laboratory Director

July 02, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 02, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	06/13/24	12:35
Location Code:	TIGHE-DAS	Received by:	B	06/14/24	16:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ95939
Phoenix ID: CQ95954

Project ID: 105093011
Client ID: TB-106 4-6

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
SPLP Extraction for Organics	Completed				06/14/24	AL	SW1312
SPLP Semivolatiles (SIM) Ext.	Completed				06/17/24	Z/K	SW3510C/SW3520C
SPLP Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.47	ug/L	1	06/18/24	AW	SW8270E (SIM)
Acenaphthene	ND	0.47	ug/L	1	06/18/24	AW	SW8270E (SIM)
Acenaphthylene	ND	0.28	ug/L	1	06/18/24	AW	SW8270E (SIM)
Anthracene	ND	0.47	ug/L	1	06/18/24	AW	SW8270E (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/18/24	AW	SW8270E (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	06/18/24	AW	SW8270E (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/18/24	AW	SW8270E (SIM)
Benzo(ghi)perylene	ND	0.45	ug/L	1	06/18/24	AW	SW8270E (SIM)
Benzo(k)fluoranthene	ND	0.28	ug/L	1	06/18/24	AW	SW8270E (SIM)
Chrysene	ND	0.47	ug/L	1	06/18/24	AW	SW8270E (SIM)
Dibenz(a,h)anthracene	ND	0.09	ug/L	1	06/18/24	AW	SW8270E (SIM)
Fluoranthene	ND	0.47	ug/L	1	06/18/24	AW	SW8270E (SIM)
Fluorene	ND	0.47	ug/L	1	06/18/24	AW	SW8270E (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.09	ug/L	1	06/18/24	AW	SW8270E (SIM)
Naphthalene	ND	0.47	ug/L	1	06/18/24	AW	SW8270E (SIM)
Phenanthrene	ND	0.50	ug/L	1	06/18/24	AW	SW8270E (SIM)
Pyrene	ND	0.47	ug/L	1	06/18/24	AW	SW8270E (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	67		%	1	06/18/24	AW	30 - 130 %
% Nitrobenzene-d5	76		%	1	06/18/24	AW	30 - 130 %
% Terphenyl-d14	75		%	1	06/18/24	AW	30 - 130 %

Project ID: 105093011
Client ID: TB-106 4-6

Phoenix I.D.: CQ95954

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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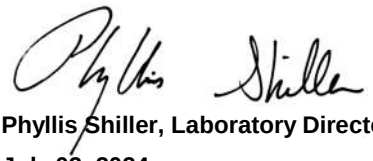

Phyllis Shiller, Laboratory Director

July 02, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 02, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	06/13/24	13:10
Location Code:	TIGHE-DAS	Received by:	B	06/14/24	16:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ95939
Phoenix ID: CQ95960

Project ID: 105093011
Client ID: TB-107 4-6

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	83		%		06/14/24	R	SW846-%Solid
EPH Extraction	Completed				06/15/24	C/K/K	SW3546
Ext. Petroleum Hydrocarbons	Completed				06/14/24		MADEP EPH-19
MA EPH Aliphatic/Aromatic Ranges							
C11-C22 Aromatic Hydrocarbons 1,2	ND	20	mg/Kg	1	06/17/24	AW	MA EPH 5/2019
C11-C22 Aromatic Hydrocarbons Un	ND	20	mg/Kg	1	06/17/24	AW	MA EPH 5/2019
C19-C36 Aliphatic Hydrocarbons 1*	ND	20	mg/Kg	1	06/17/24	AW	MA EPH 5/2019
C9-C18 Aliphatic Hydrocarbons 1*	ND	20	mg/Kg	1	06/17/24	AW	MA EPH 5/2019
QA/QC Surrogates							
% 1-chlorooctadecane (aliphatic)	120		%	1	06/17/24	AW	40 - 140 %
% 2-Bromonaphthalene (Fractionation)	85		%	1	06/17/24	AW	40 - 140 %
% 2-Fluorobiphenyl (Fractionation)	108		%	1	06/17/24	AW	40 - 140 %
% o-terphenyl (aromatic)	92		%	1	06/17/24	AW	40 - 140 %

Project ID: 105093011
Client ID: TB-107 4-6

Phoenix I.D.: CQ95960

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

MAEPH:
1* Hydrocarbon range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
2* C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH analytes eluting in that range.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
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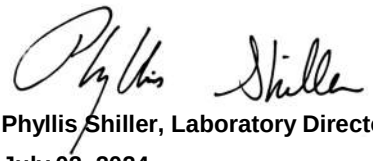

Phyllis Shiller, Laboratory Director

July 02, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 02, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	06/13/24	13:15
Location Code:	TIGHE-DAS	Received by:	B	06/14/24	16:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ95939
Phoenix ID: CQ95961

Project ID: 105093011
Client ID: TB-107 6-8

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
SPLP Extraction for Organics	Completed				06/14/24	AL	SW1312
SPLP Semivolatiles (SIM) Ext.	Completed				06/17/24	Z/K	SW3510C/SW3520C
SPLP Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.48	ug/L	1	06/18/24	AW	SW8270E (SIM)
Acenaphthene	ND	0.48	ug/L	1	06/18/24	AW	SW8270E (SIM)
Acenaphthylene	ND	0.29	ug/L	1	06/18/24	AW	SW8270E (SIM)
Anthracene	ND	0.48	ug/L	1	06/18/24	AW	SW8270E (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/18/24	AW	SW8270E (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	06/18/24	AW	SW8270E (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/18/24	AW	SW8270E (SIM)
Benzo(ghi)perylene	ND	0.46	ug/L	1	06/18/24	AW	SW8270E (SIM)
Benzo(k)fluoranthene	ND	0.29	ug/L	1	06/18/24	AW	SW8270E (SIM)
Chrysene	ND	0.48	ug/L	1	06/18/24	AW	SW8270E (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	06/18/24	AW	SW8270E (SIM)
Fluoranthene	ND	0.48	ug/L	1	06/18/24	AW	SW8270E (SIM)
Fluorene	ND	0.48	ug/L	1	06/18/24	AW	SW8270E (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	06/18/24	AW	SW8270E (SIM)
Naphthalene	ND	0.48	ug/L	1	06/18/24	AW	SW8270E (SIM)
Phenanthrene	ND	0.50	ug/L	1	06/18/24	AW	SW8270E (SIM)
Pyrene	ND	0.48	ug/L	1	06/18/24	AW	SW8270E (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	68		%	1	06/18/24	AW	30 - 130 %
% Nitrobenzene-d5	72		%	1	06/18/24	AW	30 - 130 %
% Terphenyl-d14	43		%	1	06/18/24	AW	30 - 130 %

Project ID: 105093011
Client ID: TB-107 6-8

Phoenix I.D.: CQ95961

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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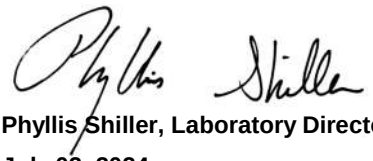

Phyllis Shiller, Laboratory Director

July 02, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 02, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	06/13/24	14:10
Location Code:	TIGHE-DAS	Received by:	B	06/14/24	16:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ95939
Phoenix ID: CQ95964

Project ID: 105093011
Client ID: TB-108 (5-7.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
SPLP Extraction for Organics	Completed				06/14/24	AL	SW1312
SPLP Semivolatiles (SIM) Ext.	Completed				06/17/24	Z/K	SW3510C/SW3520C
SPLP Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.48	ug/L	1	06/18/24	AW	SW8270E (SIM)
Acenaphthene	ND	0.48	ug/L	1	06/18/24	AW	SW8270E (SIM)
Acenaphthylene	ND	0.29	ug/L	1	06/18/24	AW	SW8270E (SIM)
Anthracene	ND	0.48	ug/L	1	06/18/24	AW	SW8270E (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/18/24	AW	SW8270E (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	06/18/24	AW	SW8270E (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/18/24	AW	SW8270E (SIM)
Benzo(ghi)perylene	ND	0.46	ug/L	1	06/18/24	AW	SW8270E (SIM)
Benzo(k)fluoranthene	ND	0.29	ug/L	1	06/18/24	AW	SW8270E (SIM)
Chrysene	ND	0.48	ug/L	1	06/18/24	AW	SW8270E (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	06/18/24	AW	SW8270E (SIM)
Fluoranthene	ND	0.48	ug/L	1	06/18/24	AW	SW8270E (SIM)
Fluorene	ND	0.48	ug/L	1	06/18/24	AW	SW8270E (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	06/18/24	AW	SW8270E (SIM)
Naphthalene	ND	0.48	ug/L	1	06/18/24	AW	SW8270E (SIM)
Phenanthrene	ND	0.50	ug/L	1	06/18/24	AW	SW8270E (SIM)
Pyrene	ND	0.48	ug/L	1	06/18/24	AW	SW8270E (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	63		%	1	06/18/24	AW	30 - 130 %
% Nitrobenzene-d5	60		%	1	06/18/24	AW	30 - 130 %
% Terphenyl-d14	78		%	1	06/18/24	AW	30 - 130 %

Project ID: 105093011
Client ID: TB-108 (5-7.5)

Phoenix I.D.: CQ95964

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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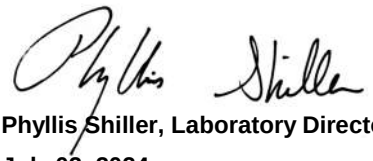

Phyllis Shiller, Laboratory Director

July 02, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 02, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	06/13/24	13:30
Location Code:	TIGHE-DAS	Received by:	B	06/14/24	16:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ95939
Phoenix ID: CQ95970

Project ID: 105093011
Client ID: TB-109 (5-7.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
SPLP Extraction for Organics	Completed				06/14/24	AL	SW1312
SPLP Semivolatiles (SIM) Ext.	Completed				06/17/24	Z/K	SW3510C/SW3520C
SPLP Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.47	ug/L	1	06/18/24	AW	SW8270E (SIM)
Acenaphthene	ND	0.47	ug/L	1	06/18/24	AW	SW8270E (SIM)
Acenaphthylene	ND	0.28	ug/L	1	06/18/24	AW	SW8270E (SIM)
Anthracene	ND	0.47	ug/L	1	06/18/24	AW	SW8270E (SIM)
Benz(a)anthracene	ND	0.10	ug/L	1	06/18/24	AW	SW8270E (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	06/18/24	AW	SW8270E (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/18/24	AW	SW8270E (SIM)
Benzo(ghi)perylene	ND	0.45	ug/L	1	06/18/24	AW	SW8270E (SIM)
Benzo(k)fluoranthene	ND	0.28	ug/L	1	06/18/24	AW	SW8270E (SIM)
Chrysene	ND	0.47	ug/L	1	06/18/24	AW	SW8270E (SIM)
Dibenz(a,h)anthracene	ND	0.09	ug/L	1	06/18/24	AW	SW8270E (SIM)
Fluoranthene	ND	0.47	ug/L	1	06/18/24	AW	SW8270E (SIM)
Fluorene	ND	0.47	ug/L	1	06/18/24	AW	SW8270E (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.09	ug/L	1	06/18/24	AW	SW8270E (SIM)
Naphthalene	ND	0.47	ug/L	1	06/18/24	AW	SW8270E (SIM)
Phenanthrene	ND	0.50	ug/L	1	06/18/24	AW	SW8270E (SIM)
Pyrene	ND	0.47	ug/L	1	06/18/24	AW	SW8270E (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	60		%	1	06/18/24	AW	30 - 130 %
% Nitrobenzene-d5	61		%	1	06/18/24	AW	30 - 130 %
% Terphenyl-d14	70		%	1	06/18/24	AW	30 - 130 %

Project ID: 105093011
Client ID: TB-109 (5-7.5)

Phoenix I.D.: CQ95970

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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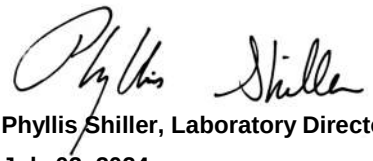

Phyllis Shiller, Laboratory Director

July 02, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 02, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	06/13/24	11:40
Location Code:	TIGHE-DAS	Received by:	B	06/14/24	16:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ95939
Phoenix ID: CQ95973

Project ID: 105093011
Client ID: TB-110 (5-7.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		06/14/24	R	SW846-%Solid
Extraction of ETPH	Completed				06/14/24	R/H/X	SW3546
Soil Extraction for SVOA PAH	Completed				06/14/24	R/U	SW3546
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	06/16/24	JRB	CTETPH
Identification	ND		mg/Kg	1	06/16/24	JRB	CTETPH
QA/QC Surrogates							
% COD (surr)	121		%	1	06/16/24	JRB	50 - 150 %
% Terphenyl (surr)	108		%	1	06/16/24	JRB	50 - 150 %
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	6.8	ug/Kg	1	06/18/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	6.8	ug/Kg	1	06/18/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	6.8	ug/Kg	1	06/18/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	6.8	ug/Kg	1	06/18/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	6.8	ug/Kg	1	06/18/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	6.8	ug/Kg	1	06/18/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	6.8	ug/Kg	1	06/18/24	JLI	SW8260D
Benzene	ND	6.8	ug/Kg	1	06/18/24	JLI	SW8260D
Chlorobenzene	ND	6.8	ug/Kg	1	06/18/24	JLI	SW8260D
Ethylbenzene	ND	6.8	ug/Kg	1	06/18/24	JLI	SW8260D
Isopropylbenzene	ND	6.8	ug/Kg	1	06/18/24	JLI	SW8260D
m&p-Xylene	ND	6.8	ug/Kg	1	06/18/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	6.8	ug/Kg	1	06/18/24	JLI	SW8260D
Naphthalene	ND	6.8	ug/Kg	1	06/18/24	JLI	SW8260D
n-Butylbenzene	ND	6.8	ug/Kg	1	06/18/24	JLI	SW8260D

Project ID: 105093011
Client ID: TB-110 (5-7.5)

Phoenix I.D.: CQ95973

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	6.8	ug/Kg	1	06/18/24	JLI	SW8260D
o-Xylene	ND	6.8	ug/Kg	1	06/18/24	JLI	SW8260D
p-Isopropyltoluene	ND	6.8	ug/Kg	1	06/18/24	JLI	SW8260D
sec-Butylbenzene	ND	6.8	ug/Kg	1	06/18/24	JLI	SW8260D
Styrene	ND	6.8	ug/Kg	1	06/18/24	JLI	SW8260D
tert-Butylbenzene	ND	6.8	ug/Kg	1	06/18/24	JLI	SW8260D
Toluene	ND	6.8	ug/Kg	1	06/18/24	JLI	SW8260D
Total Xylenes	ND	6.8	ug/Kg	1	06/18/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	06/18/24	JLI	70 - 130 %
% Bromofluorobenzene	100		%	1	06/18/24	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	06/18/24	JLI	70 - 130 %
% Toluene-d8	92		%	1	06/18/24	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	06/15/24	MR	SW8270E
Acenaphthene	ND	260	ug/Kg	1	06/15/24	MR	SW8270E
Acenaphthylene	ND	260	ug/Kg	1	06/15/24	MR	SW8270E
Anthracene	ND	260	ug/Kg	1	06/15/24	MR	SW8270E
Benz(a)anthracene	ND	260	ug/Kg	1	06/15/24	MR	SW8270E
Benzo(a)pyrene	ND	260	ug/Kg	1	06/15/24	MR	SW8270E
Benzo(b)fluoranthene	ND	260	ug/Kg	1	06/15/24	MR	SW8270E
Benzo(ghi)perylene	ND	260	ug/Kg	1	06/15/24	MR	SW8270E
Benzo(k)fluoranthene	ND	260	ug/Kg	1	06/15/24	MR	SW8270E
Chrysene	ND	260	ug/Kg	1	06/15/24	MR	SW8270E
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	06/15/24	MR	SW8270E
Fluoranthene	ND	260	ug/Kg	1	06/15/24	MR	SW8270E
Fluorene	ND	260	ug/Kg	1	06/15/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	06/15/24	MR	SW8270E
Naphthalene	ND	260	ug/Kg	1	06/15/24	MR	SW8270E
Phenanthrene	ND	260	ug/Kg	1	06/15/24	MR	SW8270E
Pyrene	ND	260	ug/Kg	1	06/15/24	MR	SW8270E
QA/QC Surrogates							
% 2-Fluorobiphenyl	69		%	1	06/15/24	MR	30 - 130 %
% Nitrobenzene-d5	76		%	1	06/15/24	MR	30 - 130 %
% Terphenyl-d14	74		%	1	06/15/24	MR	30 - 130 %

Project ID: 105093011
Client ID: TB-110 (5-7.5)

Phoenix I.D.: CQ95973

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
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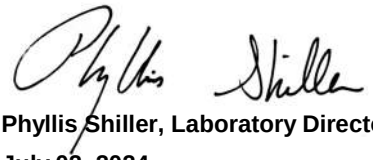

Phyllis Shiller, Laboratory Director

July 02, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 02, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	06/13/24	11:00
Location Code:	TIGHE-DAS	Received by:	B	06/14/24	16:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ95939
Phoenix ID: CQ95978

Project ID: 105093011
Client ID: TB-111 (10-12.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	97		%		06/14/24	R	SW846-%Solid
Extraction of ETPH	Completed				06/14/24	R/H/X	SW3546
Soil Extraction for SVOA PAH	Completed				06/14/24	R/U	SW3546
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	90	51	mg/Kg	1	06/16/24	JRB	CTETPH
Identification	**		mg/Kg	1	06/16/24	JRB	CTETPH
QA/QC Surrogates							
% COD (surr)	113		%	1	06/16/24	JRB	50 - 150 %
% Terphenyl (surr)	103		%	1	06/16/24	JRB	50 - 150 %
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	5.3	ug/Kg	1	06/18/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.3	ug/Kg	1	06/18/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.3	ug/Kg	1	06/18/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.3	ug/Kg	1	06/18/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.3	ug/Kg	1	06/18/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.3	ug/Kg	1	06/18/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	5.3	ug/Kg	1	06/18/24	JLI	SW8260D
Benzene	ND	5.3	ug/Kg	1	06/18/24	JLI	SW8260D
Chlorobenzene	ND	5.3	ug/Kg	1	06/18/24	JLI	SW8260D
Ethylbenzene	ND	5.3	ug/Kg	1	06/18/24	JLI	SW8260D
Isopropylbenzene	ND	5.3	ug/Kg	1	06/18/24	JLI	SW8260D
m&p-Xylene	ND	5.3	ug/Kg	1	06/18/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	5.3	ug/Kg	1	06/18/24	JLI	SW8260D
Naphthalene	ND	5.3	ug/Kg	1	06/18/24	JLI	SW8260D
n-Butylbenzene	ND	5.3	ug/Kg	1	06/18/24	JLI	SW8260D

Project ID: 105093011
Client ID: TB-111 (10-12.5)

Phoenix I.D.: CQ95978

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	5.3	ug/Kg	1	06/18/24	JLI	SW8260D
o-Xylene	ND	5.3	ug/Kg	1	06/18/24	JLI	SW8260D
p-Isopropyltoluene	ND	5.3	ug/Kg	1	06/18/24	JLI	SW8260D
sec-Butylbenzene	ND	5.3	ug/Kg	1	06/18/24	JLI	SW8260D
Styrene	ND	5.3	ug/Kg	1	06/18/24	JLI	SW8260D
tert-Butylbenzene	ND	5.3	ug/Kg	1	06/18/24	JLI	SW8260D
Toluene	ND	5.3	ug/Kg	1	06/18/24	JLI	SW8260D
Total Xylenes	ND	5.3	ug/Kg	1	06/18/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	06/18/24	JLI	70 - 130 %
% Bromofluorobenzene	102		%	1	06/18/24	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	06/18/24	JLI	70 - 130 %
% Toluene-d8	93		%	1	06/18/24	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	230	ug/Kg	1	06/15/24	MR	SW8270E
Acenaphthene	ND	230	ug/Kg	1	06/15/24	MR	SW8270E
Acenaphthylene	430	230	ug/Kg	1	06/15/24	MR	SW8270E
Anthracene	470	230	ug/Kg	1	06/15/24	MR	SW8270E
Benz(a)anthracene	970	230	ug/Kg	1	06/15/24	MR	SW8270E
Benzo(a)pyrene	1300	230	ug/Kg	1	06/15/24	MR	SW8270E
Benzo(b)fluoranthene	1500	230	ug/Kg	1	06/15/24	MR	SW8270E
Benzo(ghi)perylene	870	230	ug/Kg	1	06/15/24	MR	SW8270E
Benzo(k)fluoranthene	530	230	ug/Kg	1	06/15/24	MR	SW8270E
Chrysene	890	230	ug/Kg	1	06/15/24	MR	SW8270E
Dibenz(a,h)anthracene	ND	230	ug/Kg	1	06/15/24	MR	SW8270E
Fluoranthene	2000	230	ug/Kg	1	06/15/24	MR	SW8270E
Fluorene	ND	230	ug/Kg	1	06/15/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	890	230	ug/Kg	1	06/15/24	MR	SW8270E
Naphthalene	ND	230	ug/Kg	1	06/15/24	MR	SW8270E
Phenanthrene	1700	230	ug/Kg	1	06/15/24	MR	SW8270E
Pyrene	1700	230	ug/Kg	1	06/15/24	MR	SW8270E
QA/QC Surrogates							
% 2-Fluorobiphenyl	59		%	1	06/15/24	MR	30 - 130 %
% Nitrobenzene-d5	65		%	1	06/15/24	MR	30 - 130 %
% Terphenyl-d14	68		%	1	06/15/24	MR	30 - 130 %

Project ID: 105093011
Client ID: TB-111 (10-12.5)

Phoenix I.D.: CQ95978

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C14 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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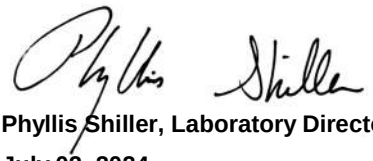

Phyllis Shiller, Laboratory Director
July 02, 2024
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 02, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	06/13/24	10:15
Location Code:	TIGHE-DAS	Received by:	B	06/14/24	16:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ95939
Phoenix ID: CQ95979

Project ID: 105093011
Client ID: TB-112 (5-7.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	98		%		06/14/24	R	SW846-%Solid
Extraction of ETPH	Completed				06/14/24	R/H/X	SW3546
Soil Extraction for SVOA PAH	Completed				06/14/24	R/U	SW3546
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	300	51	mg/Kg	1	06/16/24	JRB	CTETPH
Identification	**		mg/Kg	1	06/16/24	JRB	CTETPH
QA/QC Surrogates							
% COD (surr)	120		%	1	06/16/24	JRB	50 - 150 %
% Terphenyl (surr)	133		%	1	06/16/24	JRB	50 - 150 %
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	6.3	ug/Kg	1	06/18/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	6.3	ug/Kg	1	06/18/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	6.3	ug/Kg	1	06/18/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	6.3	ug/Kg	1	06/18/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	6.3	ug/Kg	1	06/18/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	6.3	ug/Kg	1	06/18/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	6.3	ug/Kg	1	06/18/24	JLI	SW8260D
Benzene	150	32	ug/Kg	50	06/18/24	JLI	SW8260D
Chlorobenzene	ND	6.3	ug/Kg	1	06/18/24	JLI	SW8260D
Ethylbenzene	ND	6.3	ug/Kg	1	06/18/24	JLI	SW8260D
Isopropylbenzene	ND	6.3	ug/Kg	1	06/18/24	JLI	SW8260D
m&p-Xylene	ND	6.3	ug/Kg	1	06/18/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	6.3	ug/Kg	1	06/18/24	JLI	SW8260D
Naphthalene	ND	6.3	ug/Kg	1	06/18/24	JLI	SW8260D
n-Butylbenzene	ND	6.3	ug/Kg	1	06/18/24	JLI	SW8260D

Project ID: 105093011
Client ID: TB-112 (5-7.5)

Phoenix I.D.: CQ95979

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	6.3	ug/Kg	1	06/18/24	JLI	SW8260D
o-Xylene	ND	6.3	ug/Kg	1	06/18/24	JLI	SW8260D
p-Isopropyltoluene	ND	6.3	ug/Kg	1	06/18/24	JLI	SW8260D
sec-Butylbenzene	ND	6.3	ug/Kg	1	06/18/24	JLI	SW8260D
Styrene	ND	6.3	ug/Kg	1	06/18/24	JLI	SW8260D
tert-Butylbenzene	ND	6.3	ug/Kg	1	06/18/24	JLI	SW8260D
Toluene	210	190	ug/Kg	50	06/18/24	JLI	SW8260D
Total Xylenes	ND	6.3	ug/Kg	1	06/18/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	06/18/24	JLI	70 - 130 %
% Bromofluorobenzene	101		%	1	06/18/24	JLI	70 - 130 %
% Dibromofluoromethane	102		%	1	06/18/24	JLI	70 - 130 %
% Toluene-d8	94		%	1	06/18/24	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	99		%	50	06/18/24	JLI	70 - 130 %
% Bromofluorobenzene (50x)	101		%	50	06/18/24	JLI	70 - 130 %
% Dibromofluoromethane (50x)	100		%	50	06/18/24	JLI	70 - 130 %
% Toluene-d8 (50x)	93		%	50	06/18/24	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
Acenaphthene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
Acenaphthylene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
Anthracene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
Benz(a)anthracene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
Benzo(a)pyrene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
Benzo(b)fluoranthene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
Benzo(ghi)perylene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
Benzo(k)fluoranthene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
Chrysene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
Fluoranthene	270	240	ug/Kg	1	06/15/24	MR	SW8270E
Fluorene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
Naphthalene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
Phenanthrene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
Pyrene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
QA/QC Surrogates							
% 2-Fluorobiphenyl	63		%	1	06/15/24	MR	30 - 130 %
% Nitrobenzene-d5	69		%	1	06/15/24	MR	30 - 130 %
% Terphenyl-d14	66		%	1	06/15/24	MR	30 - 130 %

Project ID: 105093011
Client ID: TB-112 (5-7.5)

Phoenix I.D.: CQ95979

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C14 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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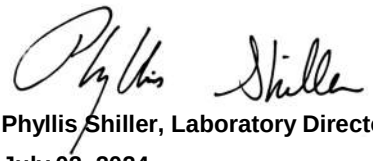

Phyllis Shiller, Laboratory Director
July 02, 2024
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 02, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	06/13/24	11:05
Location Code:	TIGHE-DAS	Received by:	B	06/14/24	16:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ95939
Phoenix ID: CQ95982

Project ID: 105093011
Client ID: TB-113 (5-7)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		06/14/24	R	SW846-%Solid
Extraction of ETPH	Completed				06/15/24	C/A	SW3546
Soil Extraction for SVOA PAH	Completed				06/14/24	R/U	SW3546
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	53	mg/Kg	1	06/16/24	JRB	CTETPH
Identification	ND		mg/Kg	1	06/16/24	JRB	CTETPH
QA/QC Surrogates							
% COD (surr)	85		%	1	06/16/24	JRB	50 - 150 %
% Terphenyl (surr)	83		%	1	06/16/24	JRB	50 - 150 %
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Benzene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Chlorobenzene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Ethylbenzene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Isopropylbenzene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
m&p-Xylene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Naphthalene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
n-Butylbenzene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D

Project ID: 105093011
Client ID: TB-113 (5-7)

Phoenix I.D.: CQ95982

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
o-Xylene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
p-Isopropyltoluene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
sec-Butylbenzene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Styrene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
tert-Butylbenzene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Toluene	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
Total Xylenes	ND	5.9	ug/Kg	1	06/18/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	06/18/24	JLI	70 - 130 %
% Bromofluorobenzene	101		%	1	06/18/24	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	06/18/24	JLI	70 - 130 %
% Toluene-d8	94		%	1	06/18/24	JLI	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	250	ug/Kg	1	06/15/24	MR	SW8270E
Acenaphthene	ND	250	ug/Kg	1	06/15/24	MR	SW8270E
Acenaphthylene	ND	250	ug/Kg	1	06/15/24	MR	SW8270E
Anthracene	ND	250	ug/Kg	1	06/15/24	MR	SW8270E
Benz(a)anthracene	330	250	ug/Kg	1	06/15/24	MR	SW8270E
Benzo(a)pyrene	460	250	ug/Kg	1	06/15/24	MR	SW8270E
Benzo(b)fluoranthene	540	250	ug/Kg	1	06/15/24	MR	SW8270E
Benzo(ghi)perylene	ND	250	ug/Kg	1	06/15/24	MR	SW8270E
Benzo(k)fluoranthene	ND	250	ug/Kg	1	06/15/24	MR	SW8270E
Chrysene	250	250	ug/Kg	1	06/15/24	MR	SW8270E
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	06/15/24	MR	SW8270E
Fluoranthene	300	250	ug/Kg	1	06/15/24	MR	SW8270E
Fluorene	ND	250	ug/Kg	1	06/15/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	280	250	ug/Kg	1	06/15/24	MR	SW8270E
Naphthalene	ND	250	ug/Kg	1	06/15/24	MR	SW8270E
Phenanthrene	ND	250	ug/Kg	1	06/15/24	MR	SW8270E
Pyrene	260	250	ug/Kg	1	06/15/24	MR	SW8270E
QA/QC Surrogates							
% 2-Fluorobiphenyl	71		%	1	06/15/24	MR	30 - 130 %
% Nitrobenzene-d5	78		%	1	06/15/24	MR	30 - 130 %
% Terphenyl-d14	76		%	1	06/15/24	MR	30 - 130 %

Project ID: 105093011
Client ID: TB-113 (5-7)

Phoenix I.D.: CQ95982

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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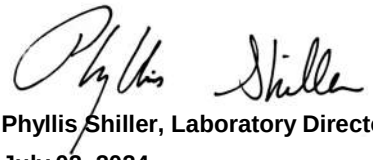

Phyllis Shiller, Laboratory Director

July 02, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 02, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	06/13/24	15:00
Location Code:	TIGHE-DAS	Received by:	B	06/14/24	16:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ95939
Phoenix ID: CQ95985

Project ID: 105093011
Client ID: TB-114 (5-7)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	96		%		06/14/24	R	SW846-%Solid
Extraction of ETPH	Completed				06/15/24	C/A	SW3546
Soil Extraction for SVOA PAH	Completed				06/14/24	R/U	SW3546
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	52	mg/Kg	1	06/16/24	JRB	CTETPH
Identification	ND		mg/Kg	1	06/16/24	JRB	CTETPH
QA/QC Surrogates							
% COD (surr)	82		%	1	06/16/24	JRB	50 - 150 %
% Terphenyl (surr)	82		%	1	06/16/24	JRB	50 - 150 %
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	1	06/18/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	1	06/18/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	1	06/18/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.6	ug/Kg	1	06/18/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	1	06/18/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.6	ug/Kg	1	06/18/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	5.6	ug/Kg	1	06/18/24	JLI	SW8260D
Benzene	ND	5.6	ug/Kg	1	06/18/24	JLI	SW8260D
Chlorobenzene	ND	5.6	ug/Kg	1	06/18/24	JLI	SW8260D
Ethylbenzene	ND	5.6	ug/Kg	1	06/18/24	JLI	SW8260D
Isopropylbenzene	ND	5.6	ug/Kg	1	06/18/24	JLI	SW8260D
m&p-Xylene	ND	5.6	ug/Kg	1	06/18/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	5.6	ug/Kg	1	06/18/24	JLI	SW8260D
Naphthalene	ND	5.6	ug/Kg	1	06/18/24	JLI	SW8260D
n-Butylbenzene	ND	5.6	ug/Kg	1	06/18/24	JLI	SW8260D

Project ID: 105093011
Client ID: TB-114 (5-7)

Phoenix I.D.: CQ95985

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	5.6	ug/Kg	1	06/18/24	JLI	SW8260D
o-Xylene	ND	5.6	ug/Kg	1	06/18/24	JLI	SW8260D
p-Isopropyltoluene	ND	5.6	ug/Kg	1	06/18/24	JLI	SW8260D
sec-Butylbenzene	ND	5.6	ug/Kg	1	06/18/24	JLI	SW8260D
Styrene	ND	5.6	ug/Kg	1	06/18/24	JLI	SW8260D
tert-Butylbenzene	ND	5.6	ug/Kg	1	06/18/24	JLI	SW8260D
Toluene	ND	5.6	ug/Kg	1	06/18/24	JLI	SW8260D
Total Xylenes	ND	5.6	ug/Kg	1	06/18/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	06/18/24	JLI	70 - 130 %
% Bromofluorobenzene	101		%	1	06/18/24	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	06/18/24	JLI	70 - 130 %
% Toluene-d8	92		%	1	06/18/24	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
Acenaphthene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
Acenaphthylene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
Anthracene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
Benz(a)anthracene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
Benzo(a)pyrene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
Benzo(b)fluoranthene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
Benzo(ghi)perylene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
Benzo(k)fluoranthene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
Chrysene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
Fluoranthene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
Fluorene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
Naphthalene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
Phenanthrene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
Pyrene	ND	240	ug/Kg	1	06/15/24	MR	SW8270E
QA/QC Surrogates							
% 2-Fluorobiphenyl	60		%	1	06/15/24	MR	30 - 130 %
% Nitrobenzene-d5	65		%	1	06/15/24	MR	30 - 130 %
% Terphenyl-d14	65		%	1	06/15/24	MR	30 - 130 %

Project ID: 105093011
Client ID: TB-114 (5-7)

Phoenix I.D.: CQ95985

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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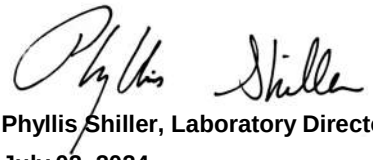

Phyllis Shiller, Laboratory Director

July 02, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 02, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	06/13/24	15:40
Location Code:	TIGHE-DAS	Received by:	B	06/14/24	16:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ95939
Phoenix ID: CQ95988

Project ID: 105093011
Client ID: TB-119 (7-9)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	95		%		07/01/24	CV	SW846-%Solid
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	7.6	ug/Kg	1	07/01/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	7.6	ug/Kg	1	07/01/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	7.6	ug/Kg	1	07/01/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	7.6	ug/Kg	1	07/01/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	7.6	ug/Kg	1	07/01/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	7.6	ug/Kg	1	07/01/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	7.6	ug/Kg	1	07/01/24	JLI	SW8260D
Benzene	ND	7.6	ug/Kg	1	07/01/24	JLI	SW8260D
Chlorobenzene	ND	7.6	ug/Kg	1	07/01/24	JLI	SW8260D
Ethylbenzene	ND	7.6	ug/Kg	1	07/01/24	JLI	SW8260D
Isopropylbenzene	ND	7.6	ug/Kg	1	07/01/24	JLI	SW8260D
m&p-Xylene	ND	7.6	ug/Kg	1	07/01/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	7.6	ug/Kg	1	07/01/24	JLI	SW8260D
Naphthalene	ND	7.6	ug/Kg	1	07/01/24	JLI	SW8260D
n-Butylbenzene	ND	7.6	ug/Kg	1	07/01/24	JLI	SW8260D
n-Propylbenzene	ND	7.6	ug/Kg	1	07/01/24	JLI	SW8260D
o-Xylene	ND	7.6	ug/Kg	1	07/01/24	JLI	SW8260D
p-Isopropyltoluene	ND	7.6	ug/Kg	1	07/01/24	JLI	SW8260D
sec-Butylbenzene	ND	7.6	ug/Kg	1	07/01/24	JLI	SW8260D
Styrene	ND	7.6	ug/Kg	1	07/01/24	JLI	SW8260D
tert-Butylbenzene	ND	7.6	ug/Kg	1	07/01/24	JLI	SW8260D
Toluene	ND	7.6	ug/Kg	1	07/01/24	JLI	SW8260D
Total Xylenes	ND	7.6	ug/Kg	1	07/01/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	07/01/24	JLI	70 - 130 %

Ver 2

Project ID: 105093011
Client ID: TB-119 (7-9)

Phoenix I.D.: CQ95988

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	97		%	1	07/01/24	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	07/01/24	JLI	70 - 130 %
% Toluene-d8	100		%	1	07/01/24	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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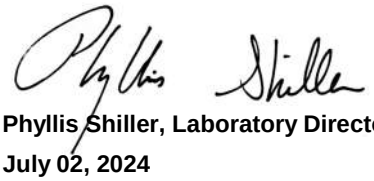

Phyllis Shiller, Laboratory Director

July 02, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 02, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	06/13/24	15:50
Location Code:	TIGHE-DAS	Received by:	B	06/14/24	16:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ95939
Phoenix ID: CQ95989

Project ID: 105093011
Client ID: TB-120 (7-9)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	82		%		07/01/24	CV	SW846-%Solid
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	6.7	ug/Kg	1	07/01/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	6.7	ug/Kg	1	07/01/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	6.7	ug/Kg	1	07/01/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	6.7	ug/Kg	1	07/01/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	6.7	ug/Kg	1	07/01/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	6.7	ug/Kg	1	07/01/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	6.7	ug/Kg	1	07/01/24	JLI	SW8260D
Benzene	ND	6.7	ug/Kg	1	07/01/24	JLI	SW8260D
Chlorobenzene	ND	6.7	ug/Kg	1	07/01/24	JLI	SW8260D
Ethylbenzene	ND	6.7	ug/Kg	1	07/01/24	JLI	SW8260D
Isopropylbenzene	ND	6.7	ug/Kg	1	07/01/24	JLI	SW8260D
m&p-Xylene	ND	6.7	ug/Kg	1	07/01/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	6.7	ug/Kg	1	07/01/24	JLI	SW8260D
Naphthalene	ND	6.7	ug/Kg	1	07/01/24	JLI	SW8260D
n-Butylbenzene	ND	6.7	ug/Kg	1	07/01/24	JLI	SW8260D
n-Propylbenzene	ND	6.7	ug/Kg	1	07/01/24	JLI	SW8260D
o-Xylene	ND	6.7	ug/Kg	1	07/01/24	JLI	SW8260D
p-Isopropyltoluene	ND	6.7	ug/Kg	1	07/01/24	JLI	SW8260D
sec-Butylbenzene	ND	6.7	ug/Kg	1	07/01/24	JLI	SW8260D
Styrene	ND	6.7	ug/Kg	1	07/01/24	JLI	SW8260D
tert-Butylbenzene	ND	6.7	ug/Kg	1	07/01/24	JLI	SW8260D
Toluene	ND	6.7	ug/Kg	1	07/01/24	JLI	SW8260D
Total Xylenes	ND	6.7	ug/Kg	1	07/01/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	07/01/24	JLI	70 - 130 %

Project ID: 105093011
Client ID: TB-120 (7-9)

Phoenix I.D.: CQ95989

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	98		%	1	07/01/24	JLI	70 - 130 %
% Dibromofluoromethane	104		%	1	07/01/24	JLI	70 - 130 %
% Toluene-d8	98		%	1	07/01/24	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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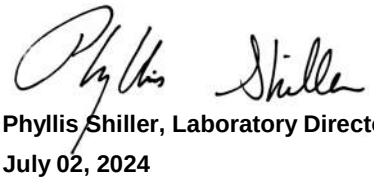

Phyllis Shiller, Laboratory Director

July 02, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 02, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	06/13/24	15:30
Location Code:	TIGHE-DAS	Received by:	B	06/14/24	16:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ95939
Phoenix ID: CQ95990

Project ID: 105093011
Client ID: TB-121 (5-7)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	84		%		06/14/24	R	SW846-%Solid
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	7.5	ug/Kg	1	06/18/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	7.5	ug/Kg	1	06/18/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	7.5	ug/Kg	1	06/18/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	7.5	ug/Kg	1	06/18/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	7.5	ug/Kg	1	06/18/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	7.5	ug/Kg	1	06/18/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	7.5	ug/Kg	1	06/18/24	JLI	SW8260D
Benzene	ND	7.5	ug/Kg	1	06/18/24	JLI	SW8260D
Chlorobenzene	ND	7.5	ug/Kg	1	06/18/24	JLI	SW8260D
Ethylbenzene	ND	7.5	ug/Kg	1	06/18/24	JLI	SW8260D
Isopropylbenzene	ND	7.5	ug/Kg	1	06/18/24	JLI	SW8260D
m&p-Xylene	ND	7.5	ug/Kg	1	06/18/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	7.5	ug/Kg	1	06/18/24	JLI	SW8260D
Naphthalene	ND	7.5	ug/Kg	1	06/18/24	JLI	SW8260D
n-Butylbenzene	ND	7.5	ug/Kg	1	06/18/24	JLI	SW8260D
n-Propylbenzene	ND	7.5	ug/Kg	1	06/18/24	JLI	SW8260D
o-Xylene	ND	7.5	ug/Kg	1	06/18/24	JLI	SW8260D
p-Isopropyltoluene	ND	7.5	ug/Kg	1	06/18/24	JLI	SW8260D
sec-Butylbenzene	ND	7.5	ug/Kg	1	06/18/24	JLI	SW8260D
Styrene	ND	7.5	ug/Kg	1	06/18/24	JLI	SW8260D
tert-Butylbenzene	ND	7.5	ug/Kg	1	06/18/24	JLI	SW8260D
Toluene	ND	7.5	ug/Kg	1	06/18/24	JLI	SW8260D
Total Xylenes	ND	7.5	ug/Kg	1	06/18/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	06/18/24	JLI	70 - 130 %

Ver 2

Project ID: 105093011
Client ID: TB-121 (5-7)

Phoenix I.D.: CQ95990

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	101		%	1	06/18/24	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	06/18/24	JLI	70 - 130 %
% Toluene-d8	92		%	1	06/18/24	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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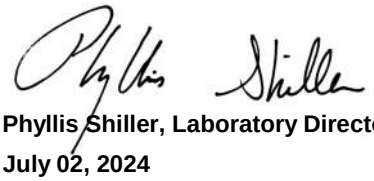

Phyllis Shiller, Laboratory Director

July 02, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 02, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	06/13/24	15:35
Location Code:	TIGHE-DAS	Received by:	B	06/14/24	16:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ95939
Phoenix ID: CQ95991

Project ID: 105093011
Client ID: TB-121 (9-11)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	82		%		06/14/24	R	SW846-%Solid
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	7.1	ug/Kg	1	06/18/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	7.1	ug/Kg	1	06/18/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	7.1	ug/Kg	1	06/18/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	7.1	ug/Kg	1	06/18/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	7.1	ug/Kg	1	06/18/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	7.1	ug/Kg	1	06/18/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	7.1	ug/Kg	1	06/18/24	JLI	SW8260D
Benzene	ND	7.1	ug/Kg	1	06/18/24	JLI	SW8260D
Chlorobenzene	ND	7.1	ug/Kg	1	06/18/24	JLI	SW8260D
Ethylbenzene	ND	7.1	ug/Kg	1	06/18/24	JLI	SW8260D
Isopropylbenzene	ND	7.1	ug/Kg	1	06/18/24	JLI	SW8260D
m&p-Xylene	ND	7.1	ug/Kg	1	06/18/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	7.1	ug/Kg	1	06/18/24	JLI	SW8260D
Naphthalene	ND	7.1	ug/Kg	1	06/18/24	JLI	SW8260D
n-Butylbenzene	ND	7.1	ug/Kg	1	06/18/24	JLI	SW8260D
n-Propylbenzene	ND	7.1	ug/Kg	1	06/18/24	JLI	SW8260D
o-Xylene	ND	7.1	ug/Kg	1	06/18/24	JLI	SW8260D
p-Isopropyltoluene	ND	7.1	ug/Kg	1	06/18/24	JLI	SW8260D
sec-Butylbenzene	ND	7.1	ug/Kg	1	06/18/24	JLI	SW8260D
Styrene	ND	7.1	ug/Kg	1	06/18/24	JLI	SW8260D
tert-Butylbenzene	ND	7.1	ug/Kg	1	06/18/24	JLI	SW8260D
Toluene	ND	7.1	ug/Kg	1	06/18/24	JLI	SW8260D
Total Xylenes	ND	7.1	ug/Kg	1	06/18/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	06/18/24	JLI	70 - 130 %

Ver 2

Project ID: 105093011
Client ID: TB-121 (9-11)

Phoenix I.D.: CQ95991

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	100		%	1	06/18/24	JLI	70 - 130 %
% Dibromofluoromethane	103		%	1	06/18/24	JLI	70 - 130 %
% Toluene-d8	92		%	1	06/18/24	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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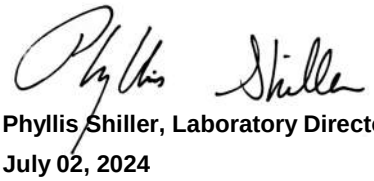

Phyllis Shiller, Laboratory Director

July 02, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 02, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	06/13/24	16:00
Location Code:	TIGHE-DAS	Received by:	B	06/14/24	16:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ95939
Phoenix ID: CQ95993

Project ID: 105093011
Client ID: TB-122 (7-9)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	83		%		06/14/24	R	SW846-%Solid
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	7.0	ug/Kg	1	06/18/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	7.0	ug/Kg	1	06/18/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	7.0	ug/Kg	1	06/18/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	7.0	ug/Kg	1	06/18/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	7.0	ug/Kg	1	06/18/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	7.0	ug/Kg	1	06/18/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	7.0	ug/Kg	1	06/18/24	JLI	SW8260D
Benzene	ND	7.0	ug/Kg	1	06/18/24	JLI	SW8260D
Chlorobenzene	ND	7.0	ug/Kg	1	06/18/24	JLI	SW8260D
Ethylbenzene	ND	7.0	ug/Kg	1	06/18/24	JLI	SW8260D
Isopropylbenzene	ND	7.0	ug/Kg	1	06/18/24	JLI	SW8260D
m&p-Xylene	ND	7.0	ug/Kg	1	06/18/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	7.0	ug/Kg	1	06/18/24	JLI	SW8260D
Naphthalene	ND	7.0	ug/Kg	1	06/18/24	JLI	SW8260D
n-Butylbenzene	ND	7.0	ug/Kg	1	06/18/24	JLI	SW8260D
n-Propylbenzene	ND	7.0	ug/Kg	1	06/18/24	JLI	SW8260D
o-Xylene	ND	7.0	ug/Kg	1	06/18/24	JLI	SW8260D
p-Isopropyltoluene	ND	7.0	ug/Kg	1	06/18/24	JLI	SW8260D
sec-Butylbenzene	ND	7.0	ug/Kg	1	06/18/24	JLI	SW8260D
Styrene	ND	7.0	ug/Kg	1	06/18/24	JLI	SW8260D
tert-Butylbenzene	ND	7.0	ug/Kg	1	06/18/24	JLI	SW8260D
Toluene	ND	7.0	ug/Kg	1	06/18/24	JLI	SW8260D
Total Xylenes	ND	7.0	ug/Kg	1	06/18/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	104		%	1	06/18/24	JLI	70 - 130 %

Project ID: 105093011
Client ID: TB-122 (7-9)

Phoenix I.D.: CQ95993

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	99		%	1	06/18/24	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	06/18/24	JLI	70 - 130 %
% Toluene-d8	93		%	1	06/18/24	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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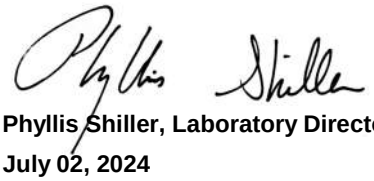

Phyllis Shiller, Laboratory Director

July 02, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 02, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	06/13/24	
Location Code:	TIGHE-DAS	Received by:	B	06/14/24	16:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ95939
Phoenix ID: CQ95994

Project ID: 105093011
Client ID: TRIP BLANK LL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				06/13/24		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	06/17/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
1,1-Dichloroethane	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
1,1-Dichloroethene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
1,1-Dichloropropene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
1,2-Dibromoethane	ND	0.50	ug/Kg	1	06/17/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
1,2-Dichloroethane	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
1,2-Dichloropropane	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
1,3-Dichloropropane	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
2,2-Dichloropropane	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
2-Chlorotoluene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
2-Hexanone	ND	25	ug/Kg	1	06/17/24	JLI	SW8260D
2-Isopropyltoluene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D

Project ID: 105093011 Phoenix I.D.: CQ95994

Client ID: TRIP BLANK LL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	25	ug/Kg	1	06/17/24	JLI	SW8260D
Acetone	ND	250	ug/Kg	1	06/17/24	JLI	SW8260D
Acrylonitrile	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
Benzene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
Bromobenzene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
Bromochloromethane	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
Bromodichloromethane	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
Bromoform	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
Bromomethane	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
Carbon Disulfide	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
Carbon tetrachloride	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
Chlorobenzene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
Chloroethane	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
Chloroform	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
Chloromethane	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
Dibromochloromethane	ND	3.0	ug/Kg	1	06/17/24	JLI	SW8260D
Dibromomethane	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
Ethylbenzene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
Hexachlorobutadiene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
Isopropylbenzene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
m&p-Xylene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
Methyl Ethyl Ketone	ND	30	ug/Kg	1	06/17/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	06/17/24	JLI	SW8260D
Methylene chloride	ND	10	ug/Kg	1	06/17/24	JLI	SW8260D
Naphthalene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
n-Butylbenzene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
n-Propylbenzene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
o-Xylene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
p-Isopropyltoluene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
sec-Butylbenzene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
Styrene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
tert-Butylbenzene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
Tetrachloroethene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	06/17/24	JLI	SW8260D
Toluene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
Total Xylenes	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	06/17/24	JLI	SW8260D
Trichloroethene	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
Trichlorofluoromethane	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	10	ug/Kg	1	06/17/24	JLI	SW8260D
Vinyl chloride	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	06/17/24	JLI	70 - 130 %

Project ID: 105093011 Phoenix I.D.: CQ95994

Client ID: TRIP BLANK LL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	102		%	1	06/17/24	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	06/17/24	JLI	70 - 130 %
% Toluene-d8	93		%	1	06/17/24	JLI	70 - 130 %
Oxygenates & Dioxane							
1,4-Dioxane	ND	100	ug/Kg	1	06/17/24	JLI	SW8260D
Diethyl ether	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
Ethyl tert-butyl ether	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D
tert-amyl methyl ether	ND	5.0	ug/Kg	1	06/17/24	JLI	SW8260D

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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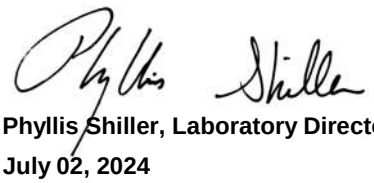

Phyllis Shiller, Laboratory Director

July 02, 2024

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 02, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	06/13/24	8:26
Location Code:	TIGHE-DAS	Received by:	B	06/14/24	16:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ95939
Phoenix ID: CQ95995

Project ID: 105093011
Client ID: DUP-1 (10-12.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Zinc	775	0.7	mg/Kg	1	06/17/24	TH	SW6010D
Percent Solid	88		%		06/14/24	R	SW846-%Solid
Total Metals Digest	Completed				06/14/24	J/P	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
July 02, 2024
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 02, 2024

FOR: Attn: Brian Sirowich
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	ZH	06/13/24	
Location Code:	TIGHE-DAS	Received by:	B	06/14/24	16:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	105093011				

Laboratory Data

SDG ID: GCQ95939
Phoenix ID: CQ95996

Project ID: 105093011
Client ID: TRIP BLANK HL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
1,1,1-Trichloroethane	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
1,1-Dichloroethane	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
1,1-Dichloroethene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
1,1-Dichloropropene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
1,2,3-Trichloropropane	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
1,2-Dibromoethane	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
1,2-Dichloroethane	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
1,2-Dichloropropane	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
1,3-Dichloropropane	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
2,2-Dichloropropane	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
2-Chlorotoluene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
2-Hexanone	ND	1300	ug/Kg	50	06/17/24	JLI	SW8260D
2-Isopropyltoluene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
4-Chlorotoluene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	06/17/24	JLI	SW8260D

Project ID: 105093011 Phoenix I.D.: CQ95996

Client ID: TRIP BLANK HL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	5000	ug/Kg	50	06/17/24	JLI	SW8260D
Acrylonitrile	ND	500	ug/Kg	50	06/17/24	JLI	SW8260D
Benzene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
Bromobenzene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
Bromochloromethane	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
Bromodichloromethane	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
Bromoform	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
Bromomethane	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
Carbon Disulfide	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
Carbon tetrachloride	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
Chlorobenzene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
Chloroethane	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
Chloroform	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
Chloromethane	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
Dibromochloromethane	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
Dibromomethane	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
Dichlorodifluoromethane	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
Ethylbenzene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
Hexachlorobutadiene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
Isopropylbenzene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
m&p-Xylene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	06/17/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
Methylene chloride	ND	500	ug/Kg	50	06/17/24	JLI	SW8260D
Naphthalene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
n-Butylbenzene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
n-Propylbenzene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
o-Xylene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
p-Isopropyltoluene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
sec-Butylbenzene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
Styrene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
tert-Butylbenzene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
Tetrachloroethene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	06/17/24	JLI	SW8260D
Toluene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
Total Xylenes	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	06/17/24	JLI	SW8260D
Trichloroethene	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
Trichlorofluoromethane	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
Vinyl chloride	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (50x)	98		%	50	06/17/24	JLI	70 - 130 %
% Bromofluorobenzene (50x)	100		%	50	06/17/24	JLI	70 - 130 %
% Dibromofluoromethane (50x)	99		%	50	06/17/24	JLI	70 - 130 %

Project ID: 105093011
Client ID: TRIP BLANK HL

Phoenix I.D.: CQ95996

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8 (50x)	93		%	50	06/17/24	JLI	70 - 130 %
Oxygenates & Dioxane							
1,4-Dioxane	ND	5000	ug/Kg	50	06/17/24	JLI	SW8260D
Diethyl ether	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
Ethyl tert-butyl ether	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D
tert-amyl methyl ether	ND	250	ug/Kg	50	06/17/24	JLI	SW8260D

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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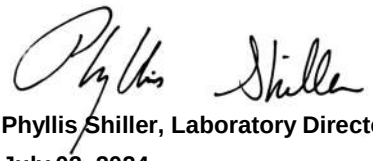

Phyllis Shiller, Laboratory Director
July 02, 2024
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

QA/QC Report

July 02, 2024

QA/QC Data

SDG I.D.: GCQ95939

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 736932 (mg/kg), QC Sample No: CQ94394 2X (CQ95944, CQ95948, CQ95950, CQ95953)														
Mercury - Soil	BRL	0.02	<0.03	<0.03	NC	101	113	11.2	107	91.3	15.8	70 - 130	30	
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.														
QA/QC Batch 736939 (mg/L), QC Sample No: CQ95948 (CQ95948, CQ95950, CQ95953)														
ICP Metals - SPLP Extraction														
Zinc	BRL	0.010	1.95	1.42	31.5	100	101	1.0	70.8			80 - 120	20	m,r
Comment:														
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.														
QA/QC Batch 736000 (mg/kg), QC Sample No: CQ96096 (CQ95940, CQ95942, CQ95944, CQ95948, CQ95950, CQ95953, CQ95995)														
ICP Metals - Soil														
Antimony	BRL	3.3	<4.2	<4.2	NC	94.4	96.2	1.9	82.0			75 - 125	35	
Arsenic	BRL	0.67	5.00	5.68	12.7	94.4	96.1	1.8	96.9			75 - 125	35	
Barium	BRL	0.33	28.6	28.3	1.10	99.7	104	4.2	109			75 - 125	35	
Beryllium	BRL	0.27	0.45	0.49	NC	95.1	95.5	0.4	95.6			75 - 125	35	
Cadmium	BRL	0.33	1.24	1.46	NC	107	108	0.9	101			75 - 125	35	
Chromium	BRL	0.33	14.8	15.3	3.30	103	106	2.9	119			75 - 125	35	
Copper	BRL	0.67	32.6	38.0	15.3	101	102	1.0	113			75 - 125	35	
Lead	BRL	0.33	9.10	11.3	21.6	101	103	2.0	107			75 - 125	35	
Nickel	BRL	0.33	13.5	14.4	6.50	104	106	1.9	104			75 - 125	35	
Selenium	BRL	1.3	<1.7	<1.7	NC	96.8	98.5	1.7	89.0			75 - 125	35	
Silver	BRL	0.33	<0.42	<0.42	NC	98.8	101	2.2	97.7			75 - 125	35	
Thallium	BRL	3.0	<3.8	<3.8	NC	111	108	2.7	102			75 - 125	35	
Vanadium	BRL	0.33	35.4	29.6	17.8	94.9	97.3	2.5	116			75 - 125	35	
Zinc	BRL	0.67	37.3	38.2	2.40	94.4	95.9	1.6	101			75 - 125	35	
Comment:														
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.														

m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

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QA/QC Report

July 02, 2024

QA/QC Data

SDG I.D.: GCQ95939

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 736093 (mg/kg), QC Sample No: CQ93733 (CQ95960)										
Extractable Petroleum Hydrocarbons - Soil										
C11-C22 Aromatic Hydrocarbons U	ND	3.3							40 - 140	30
C9-C18 Aliphatic Hydrocarbons 1*	ND	3.3	61	62	1.6				40 - 140	30
C19-C36 Aliphatic Hydrocarbons 1*	ND	3.3	77	78	1.3				40 - 140	30
C11-C22 Aromatic Hydrocarbons 1	ND	3.3	69	70	1.4				40 - 140	30
C9 - Nonane	ND	0.67	31	31	0.0				30 - 140	30
C-10 Decane	ND	0.67	46	47	2.2				40 - 140	30
C12 - Dodecane	ND	0.67	57	57	0.0				40 - 140	30
C14 - Tetradecane	ND	0.67	63	64	1.6				40 - 140	30
C16 - Hexadecane	ND	0.67	73	73	0.0				40 - 140	30
C18 - Octadecane	ND	0.67	99	98	1.0				40 - 140	30
C19 - Nonadecane	ND	0.67	81	82	1.2				40 - 140	30
C20 - Eicosane	ND	0.67	86	88	2.3				40 - 140	30
C22 - Docosane	ND	0.67	87	86	1.2				40 - 140	30
C24 - Tetracosane	ND	0.67	83	84	1.2				40 - 140	30
C26 - Hexacosane	ND	0.67	81	83	2.4				40 - 140	30
C28 - Octacosane	ND	0.67	75	76	1.3				40 - 140	30
C30 - Tricotane	ND	0.67	70	71	1.4				40 - 140	30
C36 - Hexatriacontane	ND	0.67	53	54	1.9				40 - 140	30
% 1-chlorooctadecane (aliphatic)	89	%	84	85	1.2				40 - 140	30
% o-terphenyl (aromatic)	73	%	75	75	0.0				40 - 140	30
% 2-Fluorobiphenyl (Fractionation)	95	%	100	97	3.0				40 - 140	30
% 2-Bromonaphthalene (Fractionati	108	%	105	108	2.8				40 - 140	30
% 2-Methylnaphthalene BT		%	0	0	NC				0 - 5	
% Naphthalene BT		%	0	0	NC				0 - 5	

Comment:

This batch consists of BLK, LCS and LCSD

Additional EPH fractionation criteria: Breakthrough criteria (BT) is 0 to 5%

QA/QC Batch 736088 (mg/Kg), QC Sample No: CQ93165 (CQ95982, CQ95985)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	82	82	0.0	82	74	10.3	60 - 120	30
% COD (surr)	87	%	102	101	1.0	97	95	2.1	50 - 150	30
% Terphenyl (surr)	87	%	96	96	0.0	97	89	8.6	50 - 150	30

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 736002 (mg/Kg), QC Sample No: CQ95508 (CQ95944, CQ95973, CQ95978, CQ95979)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	125	110	12.8	63	66	4.7	60 - 120	30
% COD (surr)	95	%	134	112	17.9	88	92	4.4	50 - 150	30

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
% Terphenyl (surr)	85	%	103	90	13.5	87	90	3.4	50 - 150	30	

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 735983 (ug/kg), QC Sample No: CQ92975 (CQ95973, CQ95978, CQ95979, CQ95982, CQ95985)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	53	64	18.8	48	48	0.0	40 - 140	30	
Acenaphthene	ND	230	57	67	16.1	48	49	2.1	30 - 130	30	
Acenaphthylene	ND	230	52	63	19.1	44	45	2.2	40 - 140	30	
Anthracene	ND	230	63	74	16.1	51	55	7.5	40 - 140	30	
Benz(a)anthracene	ND	230	64	75	15.8	53	56	5.5	40 - 140	30	
Benzo(a)pyrene	ND	230	69	80	14.8	55	59	7.0	40 - 140	30	
Benzo(b)fluoranthene	ND	230	63	72	13.3	50	55	9.5	40 - 140	30	
Benzo(ghi)perylene	ND	230	65	76	15.6	54	59	8.8	40 - 140	30	
Benzo(k)fluoranthene	ND	230	62	72	14.9	49	52	5.9	40 - 140	30	
Chrysene	ND	230	60	70	15.4	49	52	5.9	40 - 140	30	
Dibenz(a,h)anthracene	ND	230	66	77	15.4	55	61	10.3	40 - 140	30	
Fluoranthene	ND	230	66	77	15.4	52	57	9.2	40 - 140	30	
Fluorene	ND	230	63	76	18.7	51	54	5.7	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	64	75	15.8	51	57	11.1	40 - 140	30	
Naphthalene	ND	230	50	59	16.5	48	47	2.1	40 - 140	30	
Phenanthrene	ND	230	60	72	18.2	50	53	5.8	40 - 140	30	
Pyrene	ND	230	64	75	15.8	50	54	7.7	30 - 130	30	
% 2-Fluorobiphenyl	54	%	52	63	19.1	45	46	2.2	30 - 130	30	
% Nitrobenzene-d5	59	%	57	72	23.3	52	55	5.6	30 - 130	30	
% Terphenyl-d14	57	%	62	72	14.9	49	52	5.9	30 - 130	30	

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 736226 (ug/L), QC Sample No: CQ95907 (CQ95954, CQ95961, CQ95964, CQ95970)

Semivolatiles by SIM, PAH - SPLP

2-Methylnaphthalene	ND	0.50	67	70	4.4				30 - 130	20	
Acenaphthene	ND	0.50	84	88	4.7				30 - 130	20	
Acenaphthylene	ND	0.10	78	81	3.8				30 - 130	20	
Anthracene	ND	0.10	98	97	1.0				30 - 130	20	
Benz(a)anthracene	ND	0.02	100	90	10.5				30 - 130	20	
Benzo(a)pyrene	ND	0.02	89	74	18.4				30 - 130	20	
Benzo(b)fluoranthene	ND	0.02	93	75	21.4				30 - 130	20	r
Benzo(ghi)perylene	ND	0.02	104	73	35.0				30 - 130	20	r
Benzo(k)fluoranthene	ND	0.02	96	77	22.0				30 - 130	20	r
Chrysene	ND	0.02	94	82	13.6				30 - 130	20	
Dibenz(a,h)anthracene	ND	0.02	93	68	31.1				30 - 130	20	r
Fluoranthene	ND	0.50	102	99	3.0				30 - 130	20	
Fluorene	ND	0.10	97	95	2.1				30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	0.02	100	76	27.3				30 - 130	20	r
Naphthalene	ND	0.50	54	60	10.5				30 - 130	20	
Phenanthrene	ND	0.06	85	85	0.0				30 - 130	20	
Pyrene	ND	0.07	104	101	2.9				30 - 130	20	
% 2-Fluorobiphenyl	65	%	72	74	2.7				30 - 130	20	
% Nitrobenzene-d5	68	%	78	93	17.5				30 - 130	20	
% Terphenyl-d14	87	%	88	76	14.6				30 - 130	20	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Comment:											
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.											
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)											
QA/QC Batch 736544 (ug/kg), QC Sample No: CQ94011 (CQ95944, CQ95948, CQ95978)											
Volatiles - Soil (Low Level)											
1,1,1,2-Tetrachloroethane	ND	5.0	103	103	0.0	90	99	9.5	70 - 130	20	
1,1,1-Trichloroethane	ND	5.0	98	96	2.1	88	99	11.8	70 - 130	20	
1,1,2,2-Tetrachloroethane	ND	3.0	105	106	0.9	95	104	9.0	70 - 130	20	
1,1,2-Trichloroethane	ND	5.0	102	101	1.0	91	99	8.4	70 - 130	20	
1,1-Dichloroethane	ND	5.0	98	95	3.1	91	99	8.4	70 - 130	20	
1,1-Dichloroethene	ND	5.0	107	103	3.8	94	104	10.1	70 - 130	20	
1,1-Dichloropropene	ND	5.0	103	100	3.0	91	104	13.3	70 - 130	20	
1,2,3-Trichlorobenzene	ND	5.0	108	106	1.9	65	83	24.3	70 - 130	20	m,r
1,2,3-Trichloropropane	ND	5.0	97	98	1.0	88	95	7.7	70 - 130	20	
1,2,4-Trichlorobenzene	ND	5.0	107	102	4.8	69	88	24.2	70 - 130	20	m,r
1,2,4-Trimethylbenzene	ND	1.0	107	103	3.8	84	101	18.4	70 - 130	20	
1,2-Dibromo-3-chloropropane	ND	5.0	105	105	0.0	91	96	5.3	70 - 130	20	
1,2-Dibromoethane	ND	5.0	103	104	1.0	91	99	8.4	70 - 130	20	
1,2-Dichlorobenzene	ND	5.0	109	107	1.9	86	100	15.1	70 - 130	20	
1,2-Dichloroethane	ND	5.0	101	101	0.0	89	97	8.6	70 - 130	20	
1,2-Dichloropropane	ND	5.0	101	99	2.0	93	100	7.3	70 - 130	20	
1,3,5-Trimethylbenzene	ND	1.0	107	103	3.8	83	101	19.6	70 - 130	20	
1,3-Dichlorobenzene	ND	5.0	105	101	3.9	82	96	15.7	70 - 130	20	
1,3-Dichloropropane	ND	5.0	101	102	1.0	92	99	7.3	70 - 130	20	
1,4-Dichlorobenzene	ND	5.0	108	105	2.8	84	100	17.4	70 - 130	20	
1,4-dioxane	ND	100	112	97	14.4	124	109	12.9	70 - 130	20	
2,2-Dichloropropane	ND	5.0	99	97	2.0	85	96	12.2	70 - 130	20	
2-Chlorotoluene	ND	5.0	109	106	2.8	89	104	15.5	70 - 130	20	
2-Hexanone	ND	25	94	96	2.1	60	74	20.9	70 - 130	20	m,r
2-Isopropyltoluene	ND	5.0	110	105	4.7	77	99	25.0	70 - 130	20	r
4-Chlorotoluene	ND	5.0	106	103	2.9	86	100	15.1	70 - 130	20	
4-Methyl-2-pentanone	ND	25	96	96	0.0	81	90	10.5	70 - 130	20	
Acetone	ND	10	82	80	2.5	64	74	14.5	70 - 130	20	m
Acrylonitrile	ND	5.0	93	95	2.1	81	89	9.4	70 - 130	20	
Benzene	ND	1.0	101	99	2.0	91	100	9.4	70 - 130	20	
Bromobenzene	ND	5.0	110	107	2.8	93	102	9.2	70 - 130	20	
Bromochloromethane	ND	5.0	97	95	2.1	88	96	8.7	70 - 130	20	
Bromodichloromethane	ND	5.0	104	102	1.9	91	100	9.4	70 - 130	20	
Bromoform	ND	5.0	99	101	2.0	83	90	8.1	70 - 130	20	
Bromomethane	ND	5.0	107	103	3.8	96	103	7.0	70 - 130	20	
Carbon Disulfide	ND	5.0	104	100	3.9	89	98	9.6	70 - 130	20	
Carbon tetrachloride	ND	5.0	99	96	3.1	84	97	14.4	70 - 130	20	
Chlorobenzene	ND	5.0	106	105	0.9	93	102	9.2	70 - 130	20	
Chloroethane	ND	5.0	107	102	4.8	96	105	9.0	70 - 130	20	
Chloroform	ND	5.0	96	94	2.1	88	98	10.8	70 - 130	20	
Chloromethane	ND	5.0	117	111	5.3	103	112	8.4	70 - 130	20	
cis-1,2-Dichloroethene	ND	5.0	99	97	2.0	90	101	11.5	70 - 130	20	
cis-1,3-Dichloropropene	ND	5.0	102	102	0.0	88	99	11.8	70 - 130	20	
Dibromochloromethane	ND	3.0	106	106	0.0	90	98	8.5	70 - 130	20	
Dibromomethane	ND	5.0	103	103	0.0	91	97	6.4	70 - 130	20	
Dichlorodifluoromethane	ND	5.0	126	115	9.1	102	117	13.7	70 - 130	20	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Diethyl ether	ND	5.0	104	102	1.9	92	101	9.3	70 - 130	20	
Di-isopropyl ether	ND	5.0	94	92	2.2	89	96	7.6	70 - 130	20	
Ethyl tert-butyl ether	ND	5.0	92	91	1.1	84	92	9.1	70 - 130	20	
Ethylbenzene	ND	1.0	106	104	1.9	91	103	12.4	70 - 130	20	
Hexachlorobutadiene	ND	5.0	110	97	12.6	37	67	57.7	70 - 130	20	m,r
Isopropylbenzene	ND	1.0	109	104	4.7	89	104	15.5	70 - 130	20	
m&p-Xylene	ND	2.0	102	100	2.0	88	99	11.8	70 - 130	20	
Methyl ethyl ketone	ND	5.0	83	84	1.2	56	61	8.5	70 - 130	20	m
Methyl t-butyl ether (MTBE)	ND	1.0	93	90	3.3	82	88	7.1	70 - 130	20	
Methylene chloride	ND	5.0	94	90	4.3	87	94	7.7	70 - 130	20	
Naphthalene	ND	5.0	111	111	0.0	83	95	13.5	70 - 130	20	
n-Butylbenzene	ND	1.0	109	100	8.6	62	90	36.8	70 - 130	20	m,r
n-Propylbenzene	ND	1.0	110	105	4.7	83	103	21.5	70 - 130	20	r
o-Xylene	ND	2.0	106	104	1.9	93	104	11.2	70 - 130	20	
p-Isopropyltoluene	ND	1.0	107	101	5.8	71	95	28.9	70 - 130	20	r
sec-Butylbenzene	ND	1.0	107	100	6.8	70	95	30.3	70 - 130	20	r
Styrene	ND	5.0	103	101	2.0	88	98	10.8	70 - 130	20	
tert-amyl methyl ether	ND	5.0	94	93	1.1	83	92	10.3	70 - 130	20	
tert-Butylbenzene	ND	1.0	109	104	4.7	80	101	23.2	70 - 130	20	r
Tetrachloroethene	ND	5.0	107	103	3.8	89	104	15.5	70 - 130	20	
Tetrahydrofuran (THF)	ND	5.0	91	91	0.0	79	89	11.9	70 - 130	20	
Toluene	ND	1.0	105	102	2.9	92	102	10.3	70 - 130	20	
trans-1,2-Dichloroethene	ND	5.0	92	88	4.4	91	101	10.4	70 - 130	20	
trans-1,3-Dichloropropene	ND	5.0	105	105	0.0	87	98	11.9	70 - 130	20	
trans-1,4-dichloro-2-butene	ND	5.0	105	106	0.9	80	87	8.4	70 - 130	20	
Trichloroethene	ND	5.0	104	102	1.9	93	102	9.2	70 - 130	20	
Trichlorofluoromethane	ND	5.0	108	102	5.7	92	106	14.1	70 - 130	20	
Trichlorotrifluoroethane	ND	5.0	112	105	6.5	92	107	15.1	70 - 130	20	
Vinyl chloride	ND	5.0	106	103	2.9	94	104	10.1	70 - 130	20	
% 1,2-dichlorobenzene-d4	100	%	105	107	1.9	105	105	0.0	70 - 130	20	
% Bromofluorobenzene	102	%	101	101	0.0	101	100	1.0	70 - 130	20	
% Dibromofluoromethane	99	%	98	97	1.0	98	97	1.0	70 - 130	20	
% Toluene-d8	92	%	101	101	0.0	100	102	2.0	70 - 130	20	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 736544H (ug/kg), QC Sample No: CQ94011 50X (CQ95979 (50X))

Volatiles - Soil (High Level)

Benzene	ND	250	105	108	2.8	101	106	4.8	70 - 130	20	
Toluene	ND	250	110	112	1.8	103	108	4.7	70 - 130	20	
% 1,2-dichlorobenzene-d4	98	%	105	104	1.0	105	105	0.0	70 - 130	20	
% Bromofluorobenzene	102	%	100	100	0.0	102	101	1.0	70 - 130	20	
% Dibromofluoromethane	96	%	95	99	4.1	97	92	5.3	70 - 130	20	
% Toluene-d8	92	%	102	102	0.0	102	103	1.0	70 - 130	20	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 736371 (ug/kg), QC Sample No: CQ96800 (CQ95973, CQ95979, CQ95982, CQ95985, CQ95990, CQ95991, CQ95993, CQ95994)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	115	107	7.2	84	92	9.1	70 - 130	20	
1,1,1-Trichloroethane	ND	5.0	114	100	13.1	92	96	4.3	70 - 130	20	

QA/QC Data

SDG I.D.: GCQ95939

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1,2,2-Tetrachloroethane	ND	3.0	118	109	7.9	93	103	10.2	70 - 130	20	
1,1,2-Trichloroethane	ND	5.0	114	105	8.2	91	96	5.3	70 - 130	20	
1,1-Dichloroethane	ND	5.0	111	99	11.4	93	98	5.2	70 - 130	20	
1,1-Dichloroethene	ND	5.0	118	106	10.7	99	104	4.9	70 - 130	20	
1,1-Dichloropropene	ND	5.0	113	104	8.3	91	95	4.3	70 - 130	20	
1,2,3-Trichlorobenzene	ND	5.0	118	110	7.0	48	46	4.3	70 - 130	20	m
1,2,3-Trichloropropane	ND	5.0	109	99	9.6	94	99	5.2	70 - 130	20	
1,2,4-Trichlorobenzene	ND	5.0	114	107	6.3	50	49	2.0	70 - 130	20	m
1,2,4-Trimethylbenzene	ND	1.0	118	108	8.8	81	86	6.0	70 - 130	20	
1,2-Dibromo-3-chloropropane	ND	5.0	126	112	11.8	81	86	6.0	70 - 130	20	
1,2-Dibromoethane	ND	5.0	114	106	7.3	89	96	7.6	70 - 130	20	
1,2-Dichlorobenzene	ND	5.0	120	109	9.6	73	76	4.0	70 - 130	20	
1,2-Dichloroethane	ND	5.0	110	103	6.6	93	99	6.3	70 - 130	20	
1,2-Dichloropropane	ND	5.0	112	103	8.4	92	98	6.3	70 - 130	20	
1,3,5-Trimethylbenzene	ND	1.0	119	108	9.7	85	88	3.5	70 - 130	20	
1,3-Dichlorobenzene	ND	5.0	114	105	8.2	73	75	2.7	70 - 130	20	
1,3-Dichloropropane	ND	5.0	112	105	6.5	93	98	5.2	70 - 130	20	
1,4-Dichlorobenzene	ND	5.0	117	108	8.0	73	75	2.7	70 - 130	20	
1,4-dioxane	ND	100	117	108	8.0	101	104	2.9	70 - 130	20	
2,2-Dichloropropane	ND	5.0	116	103	11.9	94	94	0.0	70 - 130	20	
2-Chlorotoluene	ND	5.0	119	109	8.8	84	88	4.7	70 - 130	20	
2-Hexanone	ND	25	107	99	7.8	67	68	1.5	70 - 130	20	m
2-Isopropyltoluene	ND	5.0	123	112	9.4	82	84	2.4	70 - 130	20	
4-Chlorotoluene	ND	5.0	115	104	10.0	80	84	4.9	70 - 130	20	
4-Methyl-2-pentanone	ND	25	110	102	7.5	88	89	1.1	70 - 130	20	
Acetone	ND	10	96	85	12.2	70	72	2.8	70 - 130	20	
Acrylonitrile	ND	5.0	111	98	12.4	78	82	5.0	70 - 130	20	
Benzene	ND	1.0	110	102	7.5	91	95	4.3	70 - 130	20	
Bromobenzene	ND	5.0	120	109	9.6	85	91	6.8	70 - 130	20	
Bromochloromethane	ND	5.0	109	100	8.6	89	93	4.4	70 - 130	20	
Bromodichloromethane	ND	5.0	115	107	7.2	91	96	5.3	70 - 130	20	
Bromoform	ND	5.0	112	106	5.5	77	86	11.0	70 - 130	20	
Bromomethane	ND	5.0	123	106	14.8	91	91	0.0	70 - 130	20	
Carbon Disulfide	ND	5.0	116	103	11.9	89	93	4.4	70 - 130	20	
Carbon tetrachloride	ND	5.0	117	103	12.7	86	93	7.8	70 - 130	20	
Chlorobenzene	ND	5.0	116	107	8.1	87	91	4.5	70 - 130	20	
Chloroethane	ND	5.0	117	103	12.7	97	102	5.0	70 - 130	20	
Chloroform	ND	5.0	109	97	11.7	91	94	3.2	70 - 130	20	
Chloromethane	ND	5.0	128	112	13.3	102	108	5.7	70 - 130	20	
cis-1,2-Dichloroethene	ND	5.0	113	101	11.2	89	96	7.6	70 - 130	20	
cis-1,3-Dichloropropene	ND	5.0	115	108	6.3	83	88	5.8	70 - 130	20	
Dibromochloromethane	ND	3.0	120	110	8.7	91	96	5.3	70 - 130	20	
Dibromomethane	ND	5.0	113	105	7.3	89	95	6.5	70 - 130	20	
Dichlorodifluoromethane	ND	5.0	133	115	14.5	101	103	2.0	70 - 130	20	l
Diethyl ether	ND	5.0	118	106	10.7	102	106	3.8	70 - 130	20	
Ethyl tert-butyl ether	ND	5.0	109	98	10.6	92	96	4.3	70 - 130	20	
Ethylbenzene	ND	1.0	116	107	8.1	90	94	4.3	70 - 130	20	
Hexachlorobutadiene	ND	5.0	129	117	9.8	62	58	6.7	70 - 130	20	m
Isopropylbenzene	ND	1.0	119	108	9.7	91	96	5.3	70 - 130	20	
m&p-Xylene	ND	2.0	112	104	7.4	85	87	2.3	70 - 130	20	
Methyl ethyl ketone	ND	5.0	101	89	12.6	74	74	0.0	70 - 130	20	
Methyl t-butyl ether (MTBE)	ND	1.0	108	94	13.9	88	91	3.4	70 - 130	20	
Methylene chloride	ND	5.0	105	95	10.0	89	94	5.5	70 - 130	20	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Naphthalene	ND	5.0	124	115	7.5	61	59	3.3	70 - 130	20	m
n-Butylbenzene	ND	1.0	123	113	8.5	75	74	1.3	70 - 130	20	
n-Propylbenzene	ND	1.0	120	111	7.8	89	92	3.3	70 - 130	20	
o-Xylene	ND	2.0	116	108	7.1	86	89	3.4	70 - 130	20	
p-Isopropyltoluene	ND	1.0	120	110	8.7	80	81	1.2	70 - 130	20	
sec-Butylbenzene	ND	1.0	119	109	8.8	82	84	2.4	70 - 130	20	
Styrene	ND	5.0	111	104	6.5	80	82	2.5	70 - 130	20	
tert-amyl methyl ether	ND	5.0	107	100	6.8	89	95	6.5	70 - 130	20	
tert-Butylbenzene	ND	1.0	121	111	8.6	87	90	3.4	70 - 130	20	
Tetrachloroethene	ND	5.0	120	111	7.8	89	90	1.1	70 - 130	20	
Tetrahydrofuran (THF)	ND	5.0	106	93	13.1	89	92	3.3	70 - 130	20	
Toluene	ND	1.0	115	106	8.1	89	93	4.4	70 - 130	20	
trans-1,2-Dichloroethene	ND	5.0	103	92	11.3	84	86	2.4	70 - 130	20	
trans-1,3-Dichloropropene	ND	5.0	118	111	6.1	81	86	6.0	70 - 130	20	
trans-1,4-dichloro-2-butene	ND	5.0	124	114	8.4	73	84	14.0	70 - 130	20	
Trichloroethene	ND	5.0	113	106	6.4	91	95	4.3	70 - 130	20	
Trichlorofluoromethane	ND	5.0	120	107	11.5	103	104	1.0	70 - 130	20	
Trichlorotrifluoroethane	ND	5.0	129	113	13.2	104	108	3.8	70 - 130	20	
Vinyl chloride	ND	5.0	118	104	12.6	95	98	3.1	70 - 130	20	
% 1,2-dichlorobenzene-d4	101	%	107	106	0.9	106	106	0.0	70 - 130	20	
% Bromofluorobenzene	102	%	102	100	2.0	97	98	1.0	70 - 130	20	
% Dibromofluoromethane	102	%	101	101	0.0	102	100	2.0	70 - 130	20	
% Toluene-d8	93	%	101	102	1.0	100	99	1.0	70 - 130	20	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 736371H (ug/kg), QC Sample No: CQ96800 50X (CQ95944 (50X) , CQ95996 (50X))

Volatiles - Soil (High Level)

1,1,1,2-Tetrachloroethane	ND	250	89	106	17.4	98	102	4.0	70 - 130	20	
1,1,1-Trichloroethane	ND	250	86	106	20.8	102	107	4.8	70 - 130	20	r
1,1,2,2-Tetrachloroethane	ND	250	96	112	15.4	112	113	0.9	70 - 130	20	
1,1,2-Trichloroethane	ND	250	89	109	20.2	109	109	0.0	70 - 130	20	
1,1-Dichloroethane	ND	250	86	108	22.7	104	109	4.7	70 - 130	20	r
1,1-Dichloroethene	ND	250	87	110	23.4	108	113	4.5	70 - 130	20	r
1,1-Dichloropropene	ND	250	93	113	19.4	112	116	3.5	70 - 130	20	
1,2,3-Trichlorobenzene	ND	250	104	120	14.3	114	122	6.8	70 - 130	20	
1,2,3-Trichloropropane	ND	250	89	103	14.6	103	104	1.0	70 - 130	20	
1,2,4-Trichlorobenzene	ND	250	104	120	14.3	111	123	10.3	70 - 130	20	
1,2,4-Trimethylbenzene	ND	250	101	120	17.2	117	120	2.5	70 - 130	20	
1,2-Dibromo-3-chloropropane	ND	250	99	112	12.3	106	105	0.9	70 - 130	20	
1,2-Dibromoethane	ND	250	93	112	18.5	109	112	2.7	70 - 130	20	
1,2-Dichlorobenzene	ND	250	100	118	16.5	116	120	3.4	70 - 130	20	
1,2-Dichloroethane	ND	250	90	107	17.3	109	111	1.8	70 - 130	20	
1,2-Dichloropropane	ND	250	89	110	21.1	107	108	0.9	70 - 130	20	r
1,3,5-Trimethylbenzene	ND	250	100	119	17.4	118	121	2.5	70 - 130	20	
1,3-Dichlorobenzene	ND	250	98	115	16.0	111	116	4.4	70 - 130	20	
1,3-Dichloropropane	ND	250	92	108	16.0	109	112	2.7	70 - 130	20	
1,4-Dichlorobenzene	ND	250	101	119	16.4	116	122	5.0	70 - 130	20	
1,4-dioxane	ND	5000	85	103	19.1	110	114	3.6	70 - 130	20	
2,2-Dichloropropane	ND	250	83	101	19.6	87	96	9.8	70 - 130	20	
2-Chlorotoluene	ND	250	100	119	17.4	117	121	3.4	70 - 130	20	
2-Hexanone	ND	1300	86	97	12.0	96	98	2.1	70 - 130	20	

QA/QC Data

SDG I.D.: GCQ95939

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
2-Isopropyltoluene	ND	250	102	122	17.9	121	124	2.4	70 - 130	20	
4-Chlorotoluene	ND	250	99	117	16.7	114	120	5.1	70 - 130	20	
4-Methyl-2-pentanone	ND	1300	85	100	16.2	98	98	0.0	70 - 130	20	
Acetone	ND	500	64	78	19.7	80	88	9.5	70 - 130	20	l
Acrylonitrile	ND	250	85	105	21.1	99	106	6.8	70 - 130	20	r
Benzene	ND	250	89	108	19.3	109	111	1.8	70 - 130	20	
Bromobenzene	ND	250	99	118	17.5	118	121	2.5	70 - 130	20	
Bromochloromethane	ND	250	84	103	20.3	104	107	2.8	70 - 130	20	
Bromodichloromethane	ND	250	89	108	19.3	103	107	3.8	70 - 130	20	
Bromoform	ND	250	84	97	14.4	90	93	3.3	70 - 130	20	
Bromomethane	ND	250	74	98	27.9	91	98	7.4	70 - 130	20	r
Carbon Disulfide	ND	250	85	108	23.8	105	110	4.7	70 - 130	20	r
Carbon tetrachloride	ND	250	79	99	22.5	90	95	5.4	70 - 130	20	r
Chlorobenzene	ND	250	97	116	17.8	114	119	4.3	70 - 130	20	
Chloroethane	ND	250	34	45	27.8	43	46	6.7	70 - 130	20	l,m,r
Chloroform	ND	250	85	106	22.0	104	109	4.7	70 - 130	20	r
Chloromethane	ND	250	100	124	21.4	116	124	6.7	70 - 130	20	r
cis-1,2-Dichloroethene	ND	250	87	108	21.5	105	113	7.3	70 - 130	20	r
cis-1,3-Dichloropropene	ND	250	88	107	19.5	100	104	3.9	70 - 130	20	
Dibromochloromethane	ND	150	92	107	15.1	101	105	3.9	70 - 130	20	
Dibromomethane	ND	250	90	110	20.0	110	110	0.0	70 - 130	20	
Dichlorodifluoromethane	ND	250	102	129	23.4	117	122	4.2	70 - 130	20	r
Diethyl ether	ND	250	72	91	23.3	95	96	1.0	70 - 130	20	r
Ethyl tert-butyl ether	ND	250	75	94	22.5	86	90	4.5	70 - 130	20	r
Ethylbenzene	ND	250	98	117	17.7	115	119	3.4	70 - 130	20	
Hexachlorobutadiene	ND	250	110	130	16.7	130	131	0.8	70 - 130	20	m
Isopropylbenzene	ND	250	101	121	18.0	118	122	3.3	70 - 130	20	
m&p-Xylene	ND	250	94	112	17.5	111	115	3.5	70 - 130	20	
Methyl ethyl ketone	ND	250	76	91	18.0	92	91	1.1	70 - 130	20	
Methyl t-butyl ether (MTBE)	ND	250	75	97	25.6	95	93	2.1	70 - 130	20	r
Methylene chloride	ND	250	80	100	22.2	100	104	3.9	70 - 130	20	r
Naphthalene	ND	250	105	121	14.2	115	122	5.9	70 - 130	20	
n-Butylbenzene	ND	250	107	126	16.3	123	128	4.0	70 - 130	20	
n-Propylbenzene	ND	250	103	124	18.5	121	125	3.3	70 - 130	20	
o-Xylene	ND	250	98	116	16.8	114	119	4.3	70 - 130	20	
p-Isopropyltoluene	ND	250	102	122	17.9	120	123	2.5	70 - 130	20	
sec-Butylbenzene	ND	250	101	119	16.4	118	121	2.5	70 - 130	20	
Styrene	ND	250	93	111	17.6	110	114	3.6	70 - 130	20	
tert-amyl methyl ether	ND	250	77	92	17.8	85	88	3.5	70 - 130	20	
tert-Butylbenzene	ND	250	101	121	18.0	120	123	2.5	70 - 130	20	
Tetrachloroethene	ND	250	98	119	19.4	118	123	4.1	70 - 130	20	
Tetrahydrofuran (THF)	ND	250	79	96	19.4	98	100	2.0	70 - 130	20	
Toluene	ND	250	94	114	19.2	113	117	3.5	70 - 130	20	
trans-1,2-Dichloroethene	ND	250	80	100	22.2	99	106	6.8	70 - 130	20	r
trans-1,3-Dichloropropene	ND	250	87	106	19.7	96	101	5.1	70 - 130	20	
trans-1,4-dichloro-2-butene	ND	250	91	104	13.3	93	95	2.1	70 - 130	20	
Trichloroethene	ND	250	92	111	18.7	111	114	2.7	70 - 130	20	
Trichlorofluoromethane	ND	250	54	68	23.0	73	71	2.8	70 - 130	20	l,r
Trichlorotrifluoroethane	ND	250	96	119	21.4	120	127	5.7	70 - 130	20	r
Vinyl chloride	ND	250	91	114	22.4	110	114	3.6	70 - 130	20	r
% 1,2-dichlorobenzene-d4	98	%	107	103	3.8	106	104	1.9	70 - 130	20	
% Bromofluorobenzene	102	%	100	100	0.0	100	100	0.0	70 - 130	20	
% Dibromofluoromethane	99	%	94	96	2.1	96	98	2.1	70 - 130	20	

Parameter	Blank	Blk RL		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% Toluene-d8	93	%		101	102	1.0	101	102	1.0	70 - 130	20

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 736611 (ug/kg), QC Sample No: CQ97594 (CQ95953)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0		112	112	0.0				70 - 130	20
1,1,1-Trichloroethane	ND	5.0		110	107	2.8				70 - 130	20
1,1,2,2-Tetrachloroethane	ND	3.0		100	101	1.0				70 - 130	20
1,1,2-Trichloroethane	ND	5.0		104	102	1.9				70 - 130	20
1,1-Dichloroethane	ND	5.0		109	107	1.9				70 - 130	20
1,1-Dichloroethene	ND	5.0		114	111	2.7				70 - 130	20
1,1-Dichloropropene	ND	5.0		114	109	4.5				70 - 130	20
1,2,3-Trichlorobenzene	ND	5.0		100	102	2.0				70 - 130	20
1,2,3-Trichloropropane	ND	5.0		103	101	2.0				70 - 130	20
1,2,4-Trichlorobenzene	ND	5.0		101	101	0.0				70 - 130	20
1,2,4-Trimethylbenzene	ND	1.0		105	104	1.0				70 - 130	20
1,2-Dibromo-3-chloropropane	ND	5.0		103	105	1.9				70 - 130	20
1,2-Dibromoethane	ND	5.0		107	107	0.0				70 - 130	20
1,2-Dichlorobenzene	ND	5.0		102	103	1.0				70 - 130	20
1,2-Dichloroethane	ND	5.0		104	101	2.9				70 - 130	20
1,2-Dichloropropane	ND	5.0		107	105	1.9				70 - 130	20
1,3,5-Trimethylbenzene	ND	1.0		109	107	1.9				70 - 130	20
1,3-Dichlorobenzene	ND	5.0		103	104	1.0				70 - 130	20
1,3-Dichloropropane	ND	5.0		105	106	0.9				70 - 130	20
1,4-Dichlorobenzene	ND	5.0		102	102	0.0				70 - 130	20
1,4-dioxane	ND	100		93	87	6.7				70 - 130	20
2,2-Dichloropropane	ND	5.0		111	109	1.8				70 - 130	20
2-Chlorotoluene	ND	5.0		108	108	0.0				70 - 130	20
2-Hexanone	ND	25		96	97	1.0				70 - 130	20
2-Isopropyltoluene	ND	5.0		113	113	0.0				70 - 130	20
4-Chlorotoluene	ND	5.0		105	106	0.9				70 - 130	20
4-Methyl-2-pentanone	ND	25		98	97	1.0				70 - 130	20
Acetone	ND	10		73	73	0.0				70 - 130	20
Acrylonitrile	ND	5.0		99	99	0.0				70 - 130	20
Benzene	ND	1.0		107	105	1.9				70 - 130	20
Bromobenzene	ND	5.0		106	107	0.9				70 - 130	20
Bromochloromethane	ND	5.0		107	109	1.9				70 - 130	20
Bromodichloromethane	ND	5.0		107	105	1.9				70 - 130	20
Bromoform	ND	5.0		108	108	0.0				70 - 130	20
Bromomethane	ND	5.0		119	112	6.1				70 - 130	20
Carbon Disulfide	ND	5.0		113	110	2.7				70 - 130	20
Carbon tetrachloride	ND	5.0		131	108	19.2				70 - 130	20
Chlorobenzene	ND	5.0		107	107	0.0				70 - 130	20
Chloroethane	ND	5.0		114	112	1.8				70 - 130	20
Chloroform	ND	5.0		107	106	0.9				70 - 130	20
Chloromethane	ND	5.0		115	113	1.8				70 - 130	20
cis-1,2-Dichloroethene	ND	5.0		108	107	0.9				70 - 130	20
cis-1,3-Dichloropropene	ND	5.0		111	109	1.8				70 - 130	20
Dibromochloromethane	ND	3.0		107	109	1.9				70 - 130	20
Dibromomethane	ND	5.0		106	103	2.9				70 - 130	20
Dichlorodifluoromethane	ND	5.0		105	101	3.9				70 - 130	20

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Diethyl ether	ND	5.0	96	95	1.0				70 - 130	20
Ethyl tert-butyl ether	ND	5.0	97	97	0.0				70 - 130	20
Ethylbenzene	ND	1.0	108	107	0.9				70 - 130	20
Hexachlorobutadiene	ND	5.0	110	109	0.9				70 - 130	20
Isopropylbenzene	ND	1.0	114	114	0.0				70 - 130	20
m&p-Xylene	ND	2.0	106	105	0.9				70 - 130	20
Methyl ethyl ketone	ND	5.0	84	86	2.4				70 - 130	20
Methyl t-butyl ether (MTBE)	ND	1.0	101	102	1.0				70 - 130	20
Methylene chloride	ND	5.0	95	93	2.1				70 - 130	20
Naphthalene	ND	5.0	103	107	3.8				70 - 130	20
n-Butylbenzene	ND	1.0	109	106	2.8				70 - 130	20
n-Propylbenzene	ND	1.0	112	111	0.9				70 - 130	20
o-Xylene	ND	2.0	107	108	0.9				70 - 130	20
p-Isopropyltoluene	ND	1.0	113	109	3.6				70 - 130	20
sec-Butylbenzene	ND	1.0	111	111	0.0				70 - 130	20
Styrene	ND	5.0	110	112	1.8				70 - 130	20
tert-amyl methyl ether	ND	5.0	105	102	2.9				70 - 130	20
tert-Butylbenzene	ND	1.0	113	112	0.9				70 - 130	20
Tetrachloroethene	ND	5.0	115	112	2.6				70 - 130	20
Tetrahydrofuran (THF)	ND	5.0	92	94	2.2				70 - 130	20
Toluene	ND	1.0	106	104	1.9				70 - 130	20
trans-1,2-Dichloroethene	ND	5.0	111	108	2.7				70 - 130	20
trans-1,3-Dichloropropene	ND	5.0	110	107	2.8				70 - 130	20
trans-1,4-dichloro-2-butene	ND	5.0	108	109	0.9				70 - 130	20
Trichloroethene	ND	5.0	112	111	0.9				70 - 130	20
Trichlorofluoromethane	ND	5.0	108	105	2.8				70 - 130	20
Trichlorotrifluoroethane	ND	5.0	115	112	2.6				70 - 130	20
Vinyl chloride	ND	5.0	111	108	2.7				70 - 130	20
% 1,2-dichlorobenzene-d4	98	%	99	100	1.0				70 - 130	20
% Bromofluorobenzene	95	%	98	99	1.0				70 - 130	20
% Dibromofluoromethane	100	%	100	99	1.0				70 - 130	20
% Toluene-d8	98	%	100	99	1.0				70 - 130	20

Comment:

The Low Level MS/MSD are not reported for this batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 738546 (ug/kg), QC Sample No: CR06676 (CQ95988, CQ95989)

Volatiles - Soil (Low Level)

1,2,3-Trichlorobenzene	ND	5.0	109	113	3.6				70 - 130	20
1,2,4-Trichlorobenzene	ND	5.0	111	116	4.4				70 - 130	20
1,2,4-Trimethylbenzene	ND	1.0	108	110	1.8				70 - 130	20
1,2-Dichlorobenzene	ND	5.0	107	108	0.9				70 - 130	20
1,3,5-Trimethylbenzene	ND	1.0	109	111	1.8				70 - 130	20
1,3-Dichlorobenzene	ND	5.0	106	110	3.7				70 - 130	20
1,4-Dichlorobenzene	ND	5.0	109	110	0.9				70 - 130	20
Benzene	ND	1.0	107	108	0.9				70 - 130	20
Chlorobenzene	ND	5.0	107	110	2.8				70 - 130	20
Ethylbenzene	ND	1.0	108	109	0.9				70 - 130	20
Isopropylbenzene	ND	1.0	110	112	1.8				70 - 130	20
m&p-Xylene	ND	2.0	108	110	1.8				70 - 130	20
Methyl t-butyl ether (MTBE)	ND	1.0	114	112	1.8				70 - 130	20
Naphthalene	ND	5.0	112	115	2.6				70 - 130	20

QA/QC Data

SDG I.D.: GCQ95939

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
n-Butylbenzene	ND	1.0	108	115	6.3				70 - 130	20
n-Propylbenzene	ND	1.0	110	113	2.7				70 - 130	20
o-Xylene	ND	2.0	108	110	1.8				70 - 130	20
p-Isopropyltoluene	ND	1.0	108	114	5.4				70 - 130	20
sec-Butylbenzene	ND	1.0	107	112	4.6				70 - 130	20
Styrene	ND	5.0	110	112	1.8				70 - 130	20
tert-Butylbenzene	ND	1.0	106	111	4.6				70 - 130	20
Toluene	ND	1.0	107	108	0.9				70 - 130	20
% 1,2-dichlorobenzene-d4	99	%	101	101	0.0				70 - 130	20
% Bromofluorobenzene	99	%	100	101	1.0				70 - 130	20
% Dibromofluoromethane	106	%	107	106	0.9				70 - 130	20
% Toluene-d8	99	%	100	100	0.0				70 - 130	20

Comment:

The MS/MSD are not reported for this batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
July 02, 2024

Tuesday, July 02, 2024

Sample Criteria Exceedances Report

Criteria: CT: GAM, RC, SWP

State: CT

GCQ95939 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CQ95948	CU-SM	Copper	CT / RSR DEC RES (mg/kg) / Inorganics	3730	0.7	2500	2500	mg/kg
CQ95948	SPLP-ZN	SPLP Zinc	CT / RSR SWPC (ug/l) / Inorganics	1.95	0.010	0.123	0.123	mg/L
CQ95950	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	14.8	0.86	10	10	mg/Kg
CQ95950	CU-SM	Copper	CT / RSR DEC RES (mg/kg) / Inorganics	21900	8.6	2500	2500	mg/kg
CQ95950	SPLP-ZN	SPLP Zinc	CT / RSR GA (mg/l) TCLP / Inorganic/PCB	23.9	0.010	5	5	mg/L
CQ95950	SPLP-ZN	SPLP Zinc	CT / RSR SWPC (ug/l) / Inorganics	23.9	0.010	0.123	0.123	mg/L
CQ95950	ZN-SM	Zinc	CT / RSR DEC RES (mg/kg) / Inorganics	26100	8.6	20000	20000	mg/Kg
CQ95953	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	33.8	0.73	10	10	mg/Kg
CQ95953	CD-SM	Cadmium	CT / RSR DEC RES (mg/kg) / Inorganics	35.5	0.36	34	34	mg/Kg
CQ95953	CU-SM	Copper	CT / RSR DEC RES (mg/kg) / Inorganics	59900	73	2500	2500	mg/kg
CQ95953	PB-SM	Lead	CT / RSR DEC RES (mg/kg) / Inorganics	848	0.36	400	400	mg/Kg
CQ95953	SPLP-ZN	SPLP Zinc	CT / RSR SWPC (ug/l) / Inorganics	2.34	0.010	0.123	0.123	mg/L
CQ95953	ZN-SM	Zinc	CT / RSR DEC RES (mg/kg) / Inorganics	25500	7.3	20000	20000	mg/Kg
CQ95978	$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1300	230	1000	1000	ug/Kg
CQ95978	$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1500	230	1000	1000	ug/Kg
CQ95978	$8100SMR	Benzo(a)pyrene	CT / RSR GA (mg/kg) / Semivolatiles	1300	230	1000	1000	ug/Kg
CQ95978	$8100SMR	Benzo(b)fluoranthene	CT / RSR GA (mg/kg) / Semivolatiles	1500	230	1000	1000	ug/Kg
CQ95979	$8020-MAR	Benzene	CT / RSR GA (mg/kg) / Volatiles	150	32	20	20	ug/Kg

Bureau of Water Protection and Land Reuse
Remediation Division

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name Phoenix Environmental Labs, Inc.	Client Name
Project Location 105093011	Project No.
Sampling Date(s) 6/13/2024	Laboratory Sample ID(s): CQ95940,

LIST RCP METHODS USED (e.g., 8260,8270, etc.) 1311/1312, 6010, 7470/7471, EPH, 8260, 8270, ETPH

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method-specified preservation and holding time requirements met?	☐ Yes ☑ No
1B	VPH and EPH methods only: Was the VPH or EPH method conducted without significant modifications (see respective RCPs)	☑ Yes ☐ No ☐ NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (≤6° C)? *If samples were received by the laboratory on the same day of collection and were stored and transported to the laboratory on ice, cooler temperatures above 6ºC are acceptable.*	☑ Yes ☐ No ☐ NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Sections: ETPH Narration, ICP Narration, SVOASIM Narration, VOA Narration.	☐ Yes ☑ No
5	Were reporting limits / limits of quantitation specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5a	Were these reporting limits / limits of quantitation met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set for applicable RCPs?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence." This form may not be altered, and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: _____ Position: Assistant Lab Director

Printed Name: Greg Lawrence Date: Tuesday, July 02, 2024

Name of Laboratory Phoenix Environmental Laboratory, Inc.

This certification form is to be used for RCP methods only.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

July 02, 2024

SDG I.D.: GCQ95939

SDG Comments

Metals Analysis:
For some of the samples the client requested a shorter list of elements than the 6010 RCP list. Only Zinc is reported as requested on the chain of custody.

8270 Semi-volatile Organics:
For some of the samples only the PAH constituents are reported as requested on the chain-of-custody. In order to achieve the requested reporting levels for the target compounds, the sample was extracted and analyzed via 8270 selective ion monitoring (SIM).

8260 Volatile Organics:
For some of the samples the client requested a short list for 8260 RCP Volatiles. Only the volatile aromatic constituents are reported as requested on the chain-of-custody.

EPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-FID7 06/17/24-1 Keith Aloisa, Chemist 06/17/24

CQ95960 (1X)

No significant modifications were made to the EPH method, as specified in Section 11.3 of the method.

The initial calibration (NAR520I) RSD for the compound list was less than 25% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 25% except for the following compounds:None.

QC (Batch Specific):

Batch 736093 (CQ93733)

CQ95960

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
This batch consists of BLK, LCS and LCSD
Additional EPH fractionation criteria: Breakthrough criteria (BT) is 0 to 5%

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 736002 (Samples: CQ95944, CQ95973, CQ95978, CQ95979): -----

The LCS recovery is above the upper range, therefore a slight high bias is possible. (Ext. Petroleum H.C. (C9-C36))

Instrument:

AU-FID11 06/15/24-1 Jeff Bucko, Chemist 06/15/24

CQ95944 (1X), CQ95973 (1X), CQ95978 (1X), CQ95979 (1X)

The initial calibration (ETPH605I) RSD for the compound list was less than 30% except for the following compounds: None.
As per section 7.2.3, a discrimination check standard was run (615A003_1) and contained the following outliers: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

July 02, 2024

SDG I.D.: GCQ95939

ETPH Narration

AU-FID21 06/15/24-1 Jeff Bucko, Chemist 06/15/24

CQ95982 (1X), CQ95985 (1X)

The initial calibration (ETPH507I) RSD for the compound list was less than 30% except for the following compounds: None.
As per section 7.2.3, a discrimination check standard was run (615A004_1) and contained the following outliers: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 736002 (CQ95508)

CQ95944, CQ95973, CQ95978, CQ95979

All LCS recoveries were within 60 - 120 with the following exceptions: Ext. Petroleum H.C. (C9-C36)(125%)
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Batch 736088 (CQ93165)

CQ95982, CQ95985

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 06/21/24 08:26 Zade-Anne Taylor, Chemist 06/21/24

CQ95944, CQ95948, CQ95950, CQ95953

The method preparation blank, ICB, and CCBs contain all of the acids and reagents as the samples.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 736932 (CQ94394)

CQ95944, CQ95948, CQ95950, CQ95953

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-

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NY # 11301

Certification Report

July 02, 2024

SDG I.D.: GCQ95939

Mercury Narration

125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? No.

QC Batch 736939 (Samples: CQ95948, CQ95950, CQ95953): -----

The LCS/LCSD recovery is acceptable. One analyte in the site specific MS is below the method criteria, therefore a low bias is possible. (Zinc)

The Sample/Duplicate RPD exceeds the method criteria for one analyte, therefore there may be variability in the reported result. (Zinc)

Instrument:

ARCOS 06/21/24 11:41 Cindy Pearce, Tina Hall, Chemist 06/21/24

CQ95948, CQ95950, CQ95953

Additional criteria for CCV and ICSAB:
Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB).The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS-2 06/17/24 10:19 Cindy Pearce, Tina Hall, Chemist 06/17/24

CQ95940, CQ95942, CQ95944, CQ95948, CQ95950, CQ95953, CQ95995

The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS-2 06/18/24 13:32 Cindy Pearce, Tina Hall, Chemist 06/18/24

CQ95950, CQ95953

The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS-3 06/24/24 11:37 Cindy Pearce, Chemist 06/24/24

CQ95953

The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 736000 (CQ96096)

CQ95940, CQ95942, CQ95944, CQ95948, CQ95950, CQ95953, CQ95995

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Certification Report

July 02, 2024

SDG I.D.: GCQ95939

ICP Metals Narration

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All LCSD recoveries were within 75 - 125 with the following exceptions: None.
All LCS/LCSD RPDs were less than 35% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QC (Site Specific):

Batch 736939 (CQ95948)

CQ95948, CQ95950, CQ95953

All LCS recoveries were within 80 - 120 with the following exceptions: None.
All LCSD recoveries were within 80 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: Zinc(70.8%)
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM19 06/14/24-2 Matt Richard, Chemist 06/14/24

CQ95973 (1X), CQ95978 (1X), CQ95979 (1X), CQ95982 (1X), CQ95985 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM19/19_BNA_0612):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM19/0614_26-19_BNA_0612):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 735983 (CQ92975)

CQ95973, CQ95978, CQ95979, CQ95982, CQ95985

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

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RCP Certification Report

July 02, 2024

SDG I.D.: GCQ95939

SVOA Narration

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 736226 (Samples: CQ95954, CQ95961, CQ95964, CQ95970): -----

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no significant variability is suspected. (Benzo(b)fluoranthene, Benzo(ghi)perylene, Benzo(k)fluoranthene, Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene)

Instrument:

CHEM69 06/18/24-1 Matt Richard, Chemist 06/18/24

CQ95954 (1X), CQ95961 (1X), CQ95964 (1X), CQ95970 (1X)

Initial Calibration Evaluation (CHEM69/69_BNSIM18_0426):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM69/0618_03-69_BNSIM18_0426):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 736226 (CQ95907)

CQ95954, CQ95961, CQ95964, CQ95970

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: Benzo(b)fluoranthene(21.4%), Benzo(ghi)perylene(35.0%), Benzo(k)fluoranthene(22.0%), Dibenz(a,h)anthracene(31.1%), Indeno(1,2,3-cd)pyrene(27.3%)
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

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NY # 11301

RCP Certification Report

July 02, 2024

SDG I.D.: GCQ95939

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 736371 (Samples: CQ95973, CQ95979, CQ95982, CQ95985, CQ95990, CQ95991, CQ95993, CQ95994): -----

The LCS recovery is above the upper range for one analyte that was not reported in the sample(s), therefore no significant bias is suspected. (Dichlorodifluoromethane)

QC Batch 736371H: -----

The LCS/LCSD recovery for one analyte is below the method criteria. A low bias for this analyte is possible. (Trichlorofluoromethane)

The LCS recovery is below the lower range. All of the other QC is acceptable, therefore no significant bias is suspected. (Acetone)

The QC recoveries for one analyte is below the method criteria. A low bias for this analyte is likely. (Chloroethane)

QC Batch 736611 (Samples: CQ95953): -----

The LCS recovery is above the upper range for one analyte that was not reported in the sample(s), therefore no significant bias is suspected. (Carbon tetrachloride)

Instrument:

CHEM18 06/17/24-2 Jane Li, Chemist 06/17/24

CQ95944 (50X), CQ95973 (1X), CQ95979 (1X), CQ95982 (1X), CQ95985 (1X), CQ95990 (1X), CQ95991 (1X), CQ95993 (1X), CQ95994 (1X), CQ95996 (50X)

Initial Calibration Evaluation (CHEM18/VT-M060924):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone 21% (20%)
The following compounds did not meet Table 4 recommended minimum response factors: 1,2-Dibromoethane 0.199 (0.2), trans-1,3-Dichloropropene 0.280 (0.3)
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM18/0617_36-VT-M060924):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet Table 4 recommended minimum response factors: 1,1,2-Trichloroethane 0.179 (0.2), 1,2-Dibromoethane 0.180 (0.2), Bromodichloromethane 0.295 (0.3), Ethylbenzene 0.386 (0.4), trans-1,3-Dichloropropene 0.253 (0.3)

CHEM18 06/18/24-1 Jane Li, Chemist 06/18/24

CQ95944 (1X), CQ95948 (1X), CQ95978 (1X), CQ95979 (50X)

Initial Calibration Evaluation (CHEM18/VT-M060924):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone 21% (20%)
The following compounds did not meet Table 4 recommended minimum response factors: 1,2-Dibromoethane 0.199 (0.2), trans-1,3-Dichloropropene 0.280 (0.3)
The following compounds did not meet the minimum response factor of 0.05: None.

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VOA Narration

Continuing Calibration Verification (CHEM18/0618_02-VT-M060924):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet Table 4 recommended minimum response factors: 1,1,2-Trichloroethane 0.197 (0.2), 1,2-Dibromoethane 0.198 (0.2), trans-1,3-Dichloropropene 0.276 (0.3)

CHEM31 06/18/24-2 Jane Li, Chemist 06/18/24

CQ95953 (1X)

Initial Calibration Evaluation (CHEM31/VT-061824):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone 30% (20%)
The following compounds did not meet Table 4 recommended minimum response factors: 1,1,2-Trichloroethane 0.147 (0.2), 1,2-Dibromoethane 0.154 (0.2), Bromodichloromethane 0.259 (0.3), Dibromochloromethane 0.180 (0.2), Ethylbenzene 0.341 (0.4), trans-1,3-Dichloropropene 0.284 (0.3), Trichloroethene 0.199 (0.2)
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM31/0618_21-VT-061824):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet Table 4 recommended minimum response factors: 1,1,2-Trichloroethane 0.150 (0.2), 1,2-Dibromoethane 0.163 (0.2), Bromodichloromethane 0.271 (0.3), Dibromochloromethane 0.196 (0.2), Ethylbenzene 0.372 (0.4)

CHEM31 07/01/24-1 Jane Li, Chemist 07/01/24

CQ95988 (1X), CQ95989 (1X)

Initial Calibration Evaluation (CHEM31/VT-062824):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet Table 4 recommended minimum response factors: Ethylbenzene 0.356 (0.4)
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM31/0701_03-VT-062824):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet Table 4 recommended minimum response factors: Ethylbenzene 0.386 (0.4)

QC (Batch Specific):

Batch 736371 (CQ96800) CHEM18 6/17/2024-2

CQ95973(1X), CQ95979(1X), CQ95982(1X), CQ95985(1X), CQ95990(1X), CQ95991(1X), CQ95993(1X), CQ95994(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: Dichlorodifluoromethane(133%)
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

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NY # 11301

RCP Certification Report

July 02, 2024

SDG I.D.: GCQ95939

VOA Narration

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 736371H (CQ96800) CHEM18 6/17/2024-2

CQ95944(50X), CQ95996(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(64%), Chloroethane(34%), Trichlorofluoromethane(54%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Chloroethane(45%), Trichlorofluoromethane(68%)
All LCS/LCSD RPDs were less than 20% with the following exceptions: 1,1,1-Trichloroethane(20.8%), 1,1-Dichloroethane(22.7%), 1,1-Dichloroethene(23.4%), 1,2-Dichloropropane(21.1%), Acrylonitrile(21.1%), Bromomethane(27.9%), Carbon Disulfide(23.8%), Carbon tetrachloride(22.5%), Chloroethane(27.8%), Chloroform(22.0%), Chloromethane(21.4%), cis-1,2-Dichloroethene(21.5%), Dichlorodifluoromethane(23.4%), Diethyl ether(23.3%), Ethyl tert-butyl ether(22.5%), Methyl t-butyl ether (MTBE)(25.6%), Methylene chloride(22.2%), trans-1,2-Dichloroethene(22.2%), Trichlorofluoromethane(23.0%), Trichlorotrifluoroethane(21.4%), Vinyl chloride(22.4%)
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 736544 (CQ94011) CHEM18 6/18/2024-1

CQ95944(1X), CQ95948(1X), CQ95978(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 736544H (CQ94011) CHEM18 6/18/2024-1

CQ95979(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 736611 (CQ97594) CHEM31 6/18/2024-2

CQ95953(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: Carbon tetrachloride(131%)
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
The Low Level MS/MSD are not reported for this batch.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 738546 (CR06676) CHEM31 7/1/2024-1

CQ95988(1X), CQ95989(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
The MS/MSD are not reported for this batch.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-

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RCP Certification Report

July 02, 2024

SDG I.D.: GCQ95939

VOA Narration

160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Cooler: Yes [X] No [ ]
Coolant: IPK [ ] ICE [X] No [ ]
Temp 2.8C Pg of (1)

PHOENIX
Environmental Laboratories, Inc.

CT/MA/RI CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: makrina@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[ ] Email:

Customer: Tighe & Bond
Address: 213 Court Street
Middletown, CT

Project: 105093011
Report to: Brian S, Mark P, Jill L, Zac H.
Invoice to: Tighe and Bond
Quote # DAS RATES

Project P.O: 105093011

This section MUST be completed with Bottle Quantities.

Sampler's Signature: Zac Hart Date:

Client Sample - Information - Identification

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = _____(Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification		Sample Matrix	Date Sampled	Time Sampled	*MS/MSD (May be billable at analysis unit rate)	Zinc	EtOH	VOC	GL Amber 8 oz. [ ] w/H_3PO_4 [ ] $NAHSO_4$	Soil VOA Vials [1] methanol [X] H_2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H_2SO_4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H_2SO_4 [ ] 250ml [ ] 500ml	PL HNO_3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
95939	TB-100	3-5	S	6/13/2024	8:10								1								
95940	TB-100	5-7	S	6/13/2024	8:15	X						3	1								
95941	TB-100	7.5-10	S	6/13/2024	8:20							3	1								
95942	TB-100	10-12.5	S	6/13/2024	8:25	X							1								
95943	TB-100	12.5-15	S	6/13/2024	8:30								1								
95944	TB-100	15-17.5	S	6/13/2024	8:35	X	X	X				3	1								
95945	TB-100	17.5-20	S	6/13/2024	8:36							3	1								
95946	TB-101	0-2.5	S	6/13/2024	8:40								1								
95947	TB-101	2.5-4	S	6/13/2024	8:45								1								
95948	TB-101	5-7.5	S	6/13/2024	8:50	X		X					1								
95949	TB-101	7.5-10	S	6/13/2024	8:52							3	1								
95950	TB-101	10-12.5	S	6/13/2024	8:54	X							1								

Relinquished by:	Accepted by:	Date:	Time:
Zac Hart		6/14/24	1440
		6/14/24	16:05

Comments, Special Requirements or Regulations:

Envirodata report
Keep All SAmples for 60 Days

MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.

Turnaround Time:
[ ] 1 Day* [ ] Standard
[ ] 2 Days* [ ] Other
[ ] 3 Days*
[X] 4 Days*
[ ] 5 Days*

* SURCHARGES MAY APPLY

RI
[ ] RES DEC
[ ] I/C DEC
[ ] GA Leachability
[ ] GB Leachability
[ ] GA -GW Objectives
[ ] GB -GW Objectives
[ ] Other

CT
[X] RCP Cert
[ ] GWPC
[ ] SWPC
[X] GA PMC
[ ] GB PMC
[X] SWPC
[X] RES DEC
[ ] I/C DEC

MA
[ ] MCP Certification
[ ] GW-1 [ ] RCS-1 / RCGW-1
[ ] GW-2 [ ] RCS-2 / RCGW-2
[ ] GW-3
[ ] S-1 [ ] S-1 Calc.
[ ] S-2
[ ] S-3 [ ] _____
[ ] SW Protection

State where samples were collected: CT

Data Format
[ ] Excel
[X] PDF
[ ] GIS/Key
[ ] EQuIS
[X] Other

Data Package
[ ] Tier II Checklist*
[ ] Full Data Package*
[X] Phoenix Std
[ ] Other

* SURCHARGE APPLIES

Cooler: Yes ☒ No ☐
Coolant: IPK ☐ ICE ☒ No ☐

(2)

PHOENIX Environmental Laboratories, Inc.

CT/MA/RI CHAIN OF CUSTODY RECORD

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Client Services (860) 645-1102

Temp 2.8 C Pg of

Data Delivery/Contact Options:
☐ Fax:
☐ Phone:
☐ Email:

Customer: Tighe & Bond
Address: 213 Court Street
Middletown, CT

Project: 105093011
Report to: Brian S, Mark P, Jill L, Zac H.
Invoice to: Tighe and Bond
Quote #: DAS RATES

Project P.O: 105093011

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 6/14/24

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
B=Bulk L=Liquid X = ____________(Other)

Analysis Request: *MS/MSD (May be billable at analysis unit rate); Total; VOC; SPLP PAH; MA EPH; No Targets/Ranges only

Bottle columns: GL Amber 8 oz. [ ] w/H$_3$PO$_4$ [ ] NAHSO$_4$; Soil VOA Vials ( ) methanol ( ) H$_2$O; GL Soil container ( ) oz; GL Soil container ( ) oz; 40 ml VOA Vial [ ] As is [ ] HCl; GL Amber 1000ml [ ] As is [ ] H$_2$SO$_4$; PL As is [ ] 250ml [ ] 500ml [ ] 1000ml; PL H$_2$SO$_4$ [ ] 250ml [ ] 500ml; PL HNO$_3$ 250ml; PL NaOH 250ml; Bacteria Bottle w/thio; Bacteria Bottle as is

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	*MS/MSD	Total	VOC	SPLP PAH	MA EPH	GL Amber 8 oz	Soil VOA Vials
95951	TB-101 12.5-15	s	6/13/2024	8:56							1
95952	TB-101 15-17.5	s	6/13/2024	8:58							1
95953	TB-101 17.5-19.5	s	6/13/2024	9:00		X	X			3	1
95954	TB-106 4-6	s	6/13/2024	12:35				X		3	1
95955	TB-106 6-8	s	6/13/2024	12:30						3	1
95956	TB-106 8-10	s	6/13/2024	12:25						3	1
95957	TB-106 12-14	s	6/13/2024	12:20						3	1
95958	TB-107 0-2	s	6/13/2024	1:00						3	1
95959	↓ 2-4	s	6/13/2024	1:05						3	1
95960	↓ 4-6	s	6/13/2024	1:10					X	3	1
95961	↓ 6-8	s	6/13/2024	1:15				~~X~~		3	1
95962	↓ 8-10	s	6/13/2024	1:20						3	1

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	6/14/24	1440
		6/14/24	16:05

Comments, Special Requirements or Regulations:
Envirodata report
Keep All samples for 60 Days

Turnaround Time:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ 4 Days*
☐ 5 Days*
Standard
☐ Other

* SURCHARGES MAY APPLY

RI
☐ RES DEC
☐ I/C DEC
☐ GA Leachability
☐ GB Leachability
☐ GA-GW Objectives
☐ GB-GW Objectives
☐ Other

CT
☑ RCP Cert
☐ GWPC
☐ SWPC
☑ GA PMC
☐ GB PMC
☑ SWPC
☑ RES DEC
☐ I/C DEC

MA
☐ MCP Certification
☐ GW-1 ☐ RCS-1 / RCGW-1
☐ GW-2 ☐ RCS-2 / RCGW-2
☐ GW-3
☐ S-1 ☐ S-1 Calc.
☐ S-2 ☐
☐ S-3
☐ SW Protection

State where samples were collected: CT

Data Format
☐ Excel
☑ PDF
☐ GIS/Key
☐ EQuIS
☑ Other

Data Package
☐ Tier II Checklist*
☐ Full Data Package*
☑ Phoenix Std
☐ Other

* SURCHARGE APPLIES

***MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.**

Cooler: Yes ☑ No ☐
Coolant: IPK ☑ ICE ☐ No ☐
Temp 2.8 C Pg of

(3)

PHOENIX
Environmental Laboratories, Inc.

CT/MA/RI CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: makrina@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

Data Delivery/Contact Options:
☐ Fax:
☐ Phone:
☐ Email:

Customer: Tighe & Bond
Address: 213 Court Street
Middletown, CT

Project: 105093011
Report to: Brian S, Mark P, Jill L, Zac H.
Invoice to: Tighe and Bond
Quote # DAS RATES

Project P.O: 105093011

This section MUST be completed with Bottle Quantities.

Sampler's Signature: Zac Hart Date: 6/14/24

Client Sample - Information - Identification

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = _____(Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	*MS/MSD (May be billable at analysis unit rate)	SVOC PAH	EPH	HVOC	PAH	GL Amber 8 oz. [ ] w/H_3PO_4 [ ] $NAHSO_4$ [ ] H_2O	Soil VOA Vials [ ] methanol [ ] oz	GL Soil container (6) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H_2SO_4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H_2SO_4 [ ] 250ml [ ] 500ml	PL HNO_3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
95963	TB-107 (11-13)	s	6/13/2024	11:18							X	1								
95964	TB-108 (5-7.5)	s	6/13/2024	2:10	X						X	1								
95965	(2.5-5)	s	6/13/2024	2:05							X	1								
95966	(7.5-10)	s	6/13/2024	2:15							X	1								
95967	(10-12)	s	6/13/2024	2:18							X	1								
95968	(12-14)	s	6/13/2024	2:20							X	1								
95969	TB-109 (3-5)	s	6/13/2024	1:55								1								
95970	TB-109 (5-7.5)	s	6/13/2024	1:30	X						X	1								
95971	TB-109 (7.5-10)	s	6/13/2024	1:35							X	1								
95972	TB-109 (10-12)	s	6/13/2024	1:40							X	1								
95973	TB-110 (5-7.5)	s	6/13/2024	11:40		X	X	X			X	1								
95974	TB-110 (7.5-10)	s	6/13/2024	11:45							X	1								

Relinquished by:	Accepted by:	Date:	Time:
Zac Hart		6/14/24	1440
		6/14/24	1605

Comments, Special Requirements or Regulations:
Keep All Samples for 60 days
Envirodata report
TB-107(11-13) = TB-107(11-13)

Turnaround Time
☐ 1 Day* ☐ Standard
☐ 2 Days* ☐ Other
☐ 3 Days*
☒ 4 Days*
☐ 5 Days*

RI
☐ RES DEC
☐ I/C DEC
☐ GA Leachability
☐ GB Leachability
☐ GA -GW Objectives
☐ GB -GW Objectives
☐ Other

CT
☑ RCP Cert
☐ GWPC
☐ SWPC
☑ GA PMC
☐ GB PMC
☑ SWPC
☑ RES DEC
☐ I/C DEC

MA
☐ MCP Certification
☐ GW-1 ☐ RCS-1 / RCGW-1
☐ GW-2 ☐ RCS-2 / RCGW-2
☐ GW-3 ☐ S-1 Calc.
☐ S-1
☐ S-2 ☐ _____
☐ S-3
☐ SW Protection

Data Format
☐ Excel
☑ PDF
☐ GIS/Key
☐ EQuIS
☑ Other

Data Package
☐ Tier II Checklist*
☐ Full Data Package*
☑ Phoenix Std
☐ Other

***MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.**

*** SURCHARGES MAY APPLY**

State where samples were collected: CT

*** SURCHARGE APPLIES**

Cooler: Yes ☑ No ☐
Coolant: IPK ☑ ICE ☐ No ☐
Temp 2.8 °C Pg of

(4)

PHOENIX
Environmental Laboratories, Inc.

CT/MA/RI CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: makrina@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

Data Delivery/Contact Options:
☐ Fax: _____
☐ Phone: _____
☐ Email: _____

Customer: Tighe & Bond
Address: 213 Court Street
Middletown, CT

Project: 105093011
Report to: Brian S, Mark P, Jill L, Zac H.
Invoice to: Tighe and Bond
Quote # DAS RATES

Project P.O: 105093011

This section MUST be completed with Bottle Quantities.

Sampler's Signature: [signature] Date: 6/14/24

Client Sample - Information - Identification

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = _____(Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification		Sample Matrix	Date Sampled	Time Sampled	*MS/MSD (May be billable at analysis unit rate)	AWQC	PAH	ETPH	GL Amber 8 oz. [ ] w/H_3PO_4 [ ] $NAHSO_4$	Soil VOA Vials [ ] methanol [ ] H_2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H_2SO_4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H_2SO_4 [ ] 250ml [ ] 500ml	PL HNO_3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
95975	TB-110	(10-12.5)	s	6/13/2024	11:50									X							
95976	TB-111	(3-5)	s	6/13/2024	10:50									X							
95977	↓	(7-9)	s	6/13/2024	10:55									X							
95978	↓	(10-12.5)	s	6/13/2024	11:00		X	X	X					X							
95979	TB-112	(5-7.5)	s	6/13/2024	10:15		X	X	X					X							
95980	TB-112	(3-5)	s	6/13/2024	10:10									X							
95981	TB-112	(7.5-10)	s	6/13/2024	10:20									X							
95982	TB-113	(5-7)	s	6/13/2024	11:05		X	X	X					X							
95983	TB-113	(7-9)	s	6/13/2024	11:10									X							
95984	TB-113	(10-12)	s	6/13/2024	11:15									X							
95985	TB-114	(5-7)	s	6/13/2024	3:00		X	X	X					X							
95986	TB-114	(7-9)	s	6/13/2024	3:05									X							

Relinquished by:	Accepted by:	Date:	Time:
[signature]		6/14/24	1440
	[signature]	6/14/24	1605

Comments, Special Requirements or Regulations:
Keep all samples for 60 days
Envirodata report

Turnaround Time:
☐ 1 Day* ☐ Standard
☐ 2 Days* ☐ Other
☐ 3 Days*
☒ 4 Days*
☐ 5 Days*

RI
☐ RES DEC
☐ I/C DEC
☐ GA Leachability
☐ GB Leachability
☐ GA -GW Objectives
☐ GB -GW Objectives
☐ Other

CT
☑ RCP Cert
☐ GWPC
☐ SWPC
☑ GA PMC
☐ GB PMC
☑ SWPC
☑ RES DEC
☐ I/C DEC

MA
☐ MCP Certification
☐ GW-1 ☐ RCS-1 / RCGW-1
☐ GW-2 ☐ RCS-2 / RCGW-2
☐ GW-3 ☐ S-1 Calc.
☐ S-1
☐ S-2 ☐ _____
☐ S-3
☐ SW Protection

Data Format
☐ Excel
☑ PDF
☐ GIS/Key
☐ EQuIS
☑ Other

Data Package
☐ Tier II Checklist*
☐ Full Data Package*
☑ Phoenix Std
☐ Other

***MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.**

* SURCHARGES MAY APPLY

State where samples were collected: CT

* SURCHARGE APPLIES

Cooler: Yes ☒ No ☐
Coolant: IPK ☐ ICE ☒ No ☐
Temp 2.8 °C Pg of

(5)

PHOENIX
Environmental Laboratories, Inc.

CT/MA/RI CHAIN OF CUSTODY RECORD

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Email: makrina@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

Data Delivery/Contact Options:
☐ Fax: _____
☐ Phone: _____
☐ Email:

Customer: Tighe & Bond
Address: 213 Court Street
Middletown, CT

Project: 105093011
Report to: Brian S, Mark P, Jill L, Zac H.
Invoice to: Tighe and Bond
Quote # DAS RATES

Project P.O: 105093011

This section MUST be completed with Bottle Quantities.

Sampler's Signature: _____ Date: _____

Client Sample - Information - identification

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
B=Bulk L=Liquid X = _____(Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	*MS/MSD (May be billable at analysis unit rate)	AVOC	VOC	TBH 2,3C	GL Amber 8 oz. [ ] w/H_3PO_4 [ ] $NAHSO_4$	Soil VOA Vials [ ] methanol [ ] H_2O	GL Soil container (8) oz	GL Soil container (4) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H_2SO_4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H_2SO_4 [ ] 250ml [ ] 500ml	PL HNO_3 250ml	PL NaOH 250ml	Bacteria Bottle w/hio	Bacteria Bottle as is
95987	TB-114 (10-12)	s	6/13/2024	3:10											2	1				
95988	TB-119 (7-9)	s	6/13/2024	3:40											2	1				
95989	TB-120 (7-9)	s	6/13/2024	3:50											2	1				
95990	TB-124 (5-7)	s	6/13/2024	3:30	X										2	1				
95991	TB-121 (9-11)	s	6/13/2024	3:35	X										2	1				
95992	TB-121 (11-13)	s	6/13/2024	3:40											2	1				
95993	TB-122 (7-9)	s	6/13/2024	4:00	X										2	1				
95994	TRIP blank LL	s	~~6/14/2024~~ 6/13/2024			X									2	1				
95995	DUP-1 (10-12)	s	6/13/2024	8:26			X									1		1		
95996	TB HL	s	6/13/2024												1					
		s	6/13/2024																	
		s	6/13/2024																	

Relinquished by:	Accepted by:	Date:	Time:
		6/14/24	1440
		6/14/24	16:05

Comments, Special Requirements or Regulations:

Envirodata report
Keep All Samples for 60 days

Turnaround Time:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ 4 Days*
☐ 5 Days*
☐ Standard
☐ Other _____

RI
☐ RES DEC
☐ I/C DEC
☐ GA Leachability
☐ GB Leachability
☐ GA -GW Objectives
☐ GB -GW Objectives
☐ Other

CT
☑ RCP Cert
☐ GWPC
☐ SWPC
☑ GA PMC
☐ GB PMC
☑ SWPC
☑ RES DEC
☐ I/C DEC

MA
☐ MCP Certification
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ SW Protection
☐ RCS-1 / RCGW-1
☐ RCS-2 / RCGW-2
☐ S-1 Calc.
☐ _____

Data Format
☐ Excel
☑ PDF
☐ GIS/Key
☐ EQuIS
☑ Other

Data Package
☐ Tier II Checklist*
☐ Full Data Package*
☑ Phoenix Std
☐ Other

***MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.**

* SURCHARGES MAY APPLY

State where samples were collected: CT

* SURCHARGE APPLIES

Sarah Bell

From: Brian Sirowich <BSirowich@TigheBond.com>
Sent: Thursday, June 20, 2024 10:48 AM
To: Sarah Bell; Jill L. Libby; Julia Jackson
Cc: Mark Paulsson; Zachary Hawk
Subject: RE: I forgot to add the Geotech sorry FW: GCQ95939

Sarah for the samples below please run SPLP Zinc and add the remaining RSR metals to the analysis on them. Standard TAT

CQ95950	CQ95953	
6/13/2024	6/13/2024	CQ95948
TB-101 10-12.5	TB-101 17.5-19.5	6/13/2024
		TB-101 5-7.5

For the sample below just add RSR metals Standard TAT

CQ95944
6/13/2024
TB-100 15-17.5

Thanks
Brian

From: Sarah Bell <sarah@phoenixlabs.com>
Sent: Wednesday, June 19, 2024 4:48 PM
To: Jill L. Libby <JLLibby@tigheBond.com>; Julia Jackson <JJackson@tighebond.com>
Cc: Mark Paulsson <MPaulsson@TigheBond.com>; Zachary Hawk <ZHawk@tighebond.com>; Brian Sirowich <BSirowich@TigheBond.com>
Subject: I forgot to add the Geotech sorry FW: GCQ95939

[Caution - External Sender]

Sarah Bell
Project Manager
Phoenix Environmental Laboratories
587 East Middle Turnpike
Sarah@phoenixlabs.com
860-812-0270
Website: www.phoenixlabs.com

From: Sarah Bell
Sent: Wednesday, June 19, 2024 4:47 PM
To: Brian Sirowich <BSirowich@TigheBond.com>; Zachary Hawk <ZHawk@tighebond.com>
Cc: Mark Paulsson (MPaulsson@TigheBond.com) <MPaulsson@TigheBond.com>; Jill L. Libby <JLLibby@tigheBond.com>; Julia Jackson <JJackson@tighebond.com>
Subject: GCQ95939

Sarah Bell
Project Manager
Phoenix Environmental Laboratories
587 East Middle Turnpike
Sarah@phoenixlabs.com
860-812-0270
Website: www.phoenixlabs.com

Sarah Bell

From: Mark Paulsson <MPaulsson@TigheBond.com>
Sent: Friday, June 28, 2024 4:07 PM
To: Sarah Bell; Zachary Hawk
Cc: Shannon Wilhelm
Subject: RE: Phoenix Labs - GCQ95939, 105093011 - Report Ready

Hi Sarah,
Please go ahead and run. Thanks,

Mark

Mark Paulsson
Senior Environmental Scientist I
Tighe&Bond
m. 203.216.3139

1000 Bridgeport Avenue, 3rd Floor, Shelton, CT 06484
w: tighebond.com | halvorsondesign.com

From: Sarah Bell <sarah@phoenixlabs.com>
Sent: Friday, June 28, 2024 3:19 PM
To: Zachary Hawk <ZHawk@tighebond.com>
Cc: Shannon Wilhelm <shannon@phoenixlabs.com>; Mark Paulsson <MPaulsson@TigheBond.com>
Subject: RE: Phoenix Labs - GCQ95939, 105093011 - Report Ready

[Caution - External Sender]

HI they are past hold.

Sarah Bell
Project Manager
Phoenix Environmental Laboratories
587 East Middle Turnpike
Sarah@phoenixlabs.com
860-812-0270
Website: www.phoenixlabs.com

From: Zachary Hawk <ZHawk@tighebond.com>
Sent: Friday, June 28, 2024 3:18 PM
To: Sarah Bell <sarah@phoenixlabs.com>
Cc: Shannon Wilhelm <shannon@phoenixlabs.com>; Mark Paulsson <MPaulsson@TigheBond.com>
Subject: RE: Phoenix Labs - GCQ95939, 105093011 - Report Ready

Hey Sarah,

Could you please check if 95988 (TB-119) and 95989 (TB-120) are still within hold time for VOCs. If they are please run AVOCs on standard turn around time. If they are not within hold time please let us know.

Thanks, Zac

Zachary Hawk

Project Environmental Scientist I

Tighe&Bond

m. 203.747.4991

213 Court St, Middletown, CT 06457

w: tighebond.com | halvorsondesign.com

From: Reports@phoenixlabs.com <Reports@phoenixlabs.com>
Sent: Tuesday, June 25, 2024 11:07 AM
To: Zachary Hawk <ZHawk@tighebond.com>
Subject: Phoenix Labs - GCQ95939, 105093011 - Report Ready

[Caution - External Sender]

Delivery group GCQ95939 (105093011) for the following samples:

CQ95940 - TB-100 5-7
CQ95942 - TB-100 10-12.5
CQ95944 - TB-100 15-17.5
CQ95948 - TB-101 5-7.5
CQ95950 - TB-101 10-12.5
CQ95953 - TB-101 17.5-19.5
CQ95954 - TB-106 4-6
CQ95960 - TB-107 4-6
CQ95961 - TB-107 6-8
CQ95964 - TB-108 (5-7.5)
CQ95970 - TB-109 (5-7.5)
CQ95973 - TB-110 (5-7.5)
CQ95978 - TB-111 (10-12.5)
CQ95979 - TB-112 (5-7.5)
CQ95982 - TB-113 (5-7)
CQ95985 - TB-114 (5-7)
CQ95990 - TB-121 (5-7)
CQ95991 - TB-121 (9-11)
CQ95993 - TB-122 (7-9)
CQ95994 - TRIP BLANK LL
CQ95995 - DUP-1 (10-12.5)
CQ95996 - TRIP BLANK HL

is available for review. Please click the following link to view report data.

www.PhoenixLabs.com

Note: The default password is your email address. You may change it after logging in.

Please take a moment to give us some feedback on your experience with Phoenix Environmental Laboratories, Inc. Your input is valuable to us!

www.phoenixlabs.com/CustomerSurvey

Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06374
Tel. (860) 645-1102
Fax. (860) 645-0823
www.phoenixlabs.com

Please do not reply to this email.
cc'd:jllibby@tighebond.com;bsirowich@tighebond.com;MPaulsson@TigheBond.com;jjackson@tighebond.com;zhawk@tighebond.com