284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LAB CHRONICLE

OrderID:	Q2484	**OrderDate:**	7/2/2025 9:23:00 AM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	--Select--,A12,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2484-01	**TP-58**	**SOIL**			**07/01/25**			**07/01/25**
			SVOC-TCL BNA -20	8270E		07/02/25	07/07/25	
Q2484-01DL	**TP-58DL**	**SOIL**			**07/01/25**			**07/01/25**
			SVOC-TCL BNA -20	8270E		07/02/25	07/08/25	
Q2484-02	**TP-57**	**SOIL**			**07/01/25**			**07/01/25**
			SVOC-TCL BNA -20	8270E		07/02/25	07/03/25	
Q2484-03	**TP-64**	**SOIL**			**07/01/25**			**07/01/25**
			SVOC-TCL BNA -20	8270E		07/02/25	07/07/25	
Q2484-04	**TP-107**	**SOIL**			**07/01/25**			**07/01/25**
			SVOC-TCL BNA -20	8270E		07/02/25	07/03/25	
Q2484-05	**TP-106**	**SOIL**			**07/01/25**			**07/01/25**
			SVOC-TCL BNA -20	8270E		07/02/25	07/03/25	
Q2484-06	**TP-104**	**SOIL**			**07/01/25**			**07/01/25**
			SVOC-TCL BNA -20	8270E		07/02/25	07/03/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2484

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**TP-58**								
Q2484-01	TP-58	SOIL	Naphthalene		140.000	J	26.3	200	ug/Kg
Q2484-01	TP-58	SOIL	2-Methylnaphthalene		170.000	J	29.7	200	ug/Kg
Q2484-01	TP-58	SOIL	1,1-Biphenyl		130.000	J	25.3	200	ug/Kg
Q2484-01	TP-58	SOIL	Acenaphthylene		230.000		33.5	200	ug/Kg
Q2484-01	TP-58	SOIL	Acenaphthene		510.000		24.7	200	ug/Kg
Q2484-01	TP-58	SOIL	Dibenzofuran		1,200.000		26.3	200	ug/Kg
Q2484-01	TP-58	SOIL	Fluorene		1,500.000		29.3	200	ug/Kg
Q2484-01	TP-58	SOIL	Phenanthrene		8,100.000	E	24.2	200	ug/Kg
Q2484-01	TP-58	SOIL	Anthracene		1,600.000		38.6	200	ug/Kg
Q2484-01	TP-58	SOIL	Carbazole		900.000		36.2	200	ug/Kg
Q2484-01	TP-58	SOIL	Fluoranthene		10,800.000	E	34.8	200	ug/Kg
Q2484-01	TP-58	SOIL	Pyrene		6,200.000	E	41.7	200	ug/Kg
Q2484-01	TP-58	SOIL	Benzo(a)anthracene		4,400.000	E	26.7	200	ug/Kg
Q2484-01	TP-58	SOIL	Chrysene		3,600.000	E	23.1	200	ug/Kg
Q2484-01	TP-58	SOIL	Benzo(b)fluoranthene		5,000.000	E	22	200	ug/Kg
Q2484-01	TP-58	SOIL	Benzo(k)fluoranthene		2,100.000		26	200	ug/Kg
Q2484-01	TP-58	SOIL	Benzo(a)pyrene		3,300.000	E	34.2	200	ug/Kg
Q2484-01	TP-58	SOIL	Indeno(1,2,3-cd)pyrene		1,500.000		33.7	200	ug/Kg
Q2484-01	TP-58	SOIL	Dibenzo(a,h)anthracene		450.000		31.8	200	ug/Kg
Q2484-01	TP-58	SOIL	Benzo(g,h,i)perylene		1,700.000		29.8	200	ug/Kg
			Total Svoc :		**53,530.00**				
Q2484-01	TP-58	SOIL	1,1-Binaphthalene	*	590.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	11H-Benzo[a]fluoren-11-one	*	130.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	11H-Benzo[b]fluorene	*	150.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	210.000	AB	0	0	ug/Kg
Q2484-01	TP-58	SOIL	4H-Cyclopenta[def]phenanthrene	*	160.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	7H-Benz[de]anthracen-7-one	*	130.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	Benzo[b]naphtho[2,1-d]thiophene	*	150.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	Benzo[e]pyrene	*	610.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	Benzophenone	*	610.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	Cyclopenta[cd]pyrene	*	130.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	Naphthalene, 1,4-dimethyl-	*	150.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	Naphthalene, 1,5-dimethyl-	*	230.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	Naphthalene, 1,6,7-trimethyl-	*	220.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	Naphthalene, 2,3,6-trimethyl-	*	120.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	Naphthalene, 2,3-dimethyl-	*	270.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	Naphthalene, 2,7-dimethyl-	*	110.000	J	0	0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2484

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q2484-01	TP-58	SOIL	Phenanthrene, 2-methyl-	*	97.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	Pyrene, 1-methyl-	*	150.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	Pyrene, 4-methyl-	*	120.000	J	0	0	ug/Kg
Q2484-01	TP-58	SOIL	1-Methylnaphthalene	*	230.000	J	29.9	200	ug/Kg
			Total Tics :		**4,567.00**				
			Total Concentration:		**58,097.00**				
Client ID :	**TP-58DL**								
Q2484-01DL	TP-58DL	SOIL	Acenaphthene		540.000	JD	120	990	ug/Kg
Q2484-01DL	TP-58DL	SOIL	Dibenzofuran		1,200.000	D	130	990	ug/Kg
Q2484-01DL	TP-58DL	SOIL	Fluorene		1,500.000	D	150	990	ug/Kg
Q2484-01DL	TP-58DL	SOIL	Phenanthrene		9,700.000	D	120	990	ug/Kg
Q2484-01DL	TP-58DL	SOIL	Anthracene		1,500.000	D	190	990	ug/Kg
Q2484-01DL	TP-58DL	SOIL	Carbazole		780.000	JD	180	990	ug/Kg
Q2484-01DL	TP-58DL	SOIL	Fluoranthene		10,900.000	D	170	990	ug/Kg
Q2484-01DL	TP-58DL	SOIL	Pyrene		5,900.000	D	210	990	ug/Kg
Q2484-01DL	TP-58DL	SOIL	Benzo(a)anthracene		4,700.000	D	130	990	ug/Kg
Q2484-01DL	TP-58DL	SOIL	Chrysene		3,900.000	D	120	990	ug/Kg
Q2484-01DL	TP-58DL	SOIL	Benzo(b)fluoranthene		5,300.000	D	110	990	ug/Kg
Q2484-01DL	TP-58DL	SOIL	Benzo(k)fluoranthene		1,800.000	D	130	990	ug/Kg
Q2484-01DL	TP-58DL	SOIL	Benzo(a)pyrene		3,500.000	D	170	990	ug/Kg
Q2484-01DL	TP-58DL	SOIL	Indeno(1,2,3-cd)pyrene		1,500.000	D	170	990	ug/Kg
Q2484-01DL	TP-58DL	SOIL	Dibenzo(a,h)anthracene		450.000	JD	160	990	ug/Kg
Q2484-01DL	TP-58DL	SOIL	Benzo(g,h,i)perylene		1,600.000	D	150	990	ug/Kg
			Total Svoc :		**54,770.00**				
			Total Concentration:		**54,770.00**				
Client ID :	**TP-57**								
Q2484-02	TP-57	SOIL	Phenanthrene		170.000	J	24.3	200	ug/Kg
Q2484-02	TP-57	SOIL	Fluoranthene		280.000		34.8	200	ug/Kg
Q2484-02	TP-57	SOIL	Pyrene		240.000		41.8	200	ug/Kg
Q2484-02	TP-57	SOIL	Benzo(a)anthracene		130.000	J	26.7	200	ug/Kg
Q2484-02	TP-57	SOIL	Chrysene		120.000	J	23.1	200	ug/Kg
Q2484-02	TP-57	SOIL	Benzo(b)fluoranthene		140.000	J	22.1	200	ug/Kg
Q2484-02	TP-57	SOIL	Benzo(a)pyrene		130.000	J	34.3	200	ug/Kg
			Total Svoc :		**1,210.00**				
Q2484-02	TP-57	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	180.000	AB	0	0	ug/Kg
Q2484-02	TP-57	SOIL	Benzo[e]pyrene	*	86.300	J	0	0	ug/Kg
Q2484-02	TP-57	SOIL	Benzophenone	*	320.000	J	0	0	ug/Kg
Q2484-02	TP-57	SOIL	n-Hexadecanoic acid	*	80.900	J	0	0	ug/Kg
			Total Tics :		**667.20**				

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Hit Summary Sheet
SW-846

SDG No.: Q2484

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
			Total Concentration:		**1,877.20**				
Client ID :	**TP-64**								
Q2484-03	TP-64	SOIL	Fluoranthene		650.000	J	170	960	ug/Kg
Q2484-03	TP-64	SOIL	Pyrene		520.000	J	200	960	ug/Kg
Q2484-03	TP-64	SOIL	Benzo(b)fluoranthene		430.000	J	110	960	ug/Kg
			Total Svoc :		**1,600.00**				
			Total Concentration:		**1,600.00**				
Client ID :	**TP-107**								
Q2484-04	TP-107	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	230.000	AB	0	0	ug/Kg
Q2484-04	TP-107	SOIL	Benzophenone	*	360.000	J	0	0	ug/Kg
Q2484-04	TP-107	SOIL	Heptacosane	*	110.000	J	0	0	ug/Kg
Q2484-04	TP-107	SOIL	n-Hexadecanoic acid	*	110.000	J	0	0	ug/Kg
Q2484-04	TP-107	SOIL	Trifluoroacetoxy hexadecane	*	170.000	J	0	0	ug/Kg
			Total Tics :		**980.00**				
			Total Concentration:		**980.00**				
Client ID :	**TP-106**								
Q2484-05	TP-106	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	210.000	AB	0	0	ug/Kg
Q2484-05	TP-106	SOIL	Benzophenone	*	360.000	J	0	0	ug/Kg
Q2484-05	TP-106	SOIL	Heptafluorobutyric acid, pentadec	*	140.000	J	0	0	ug/Kg
			Total Tics :		**710.00**				
			Total Concentration:		**710.00**				
Client ID :	**TP-104**								
Q2484-06	TP-104	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	220.000	AB	0	0	ug/Kg
Q2484-06	TP-104	SOIL	Behenic alcohol	*	180.000	J	0	0	ug/Kg
Q2484-06	TP-104	SOIL	Benzophenone	*	370.000	J	0	0	ug/Kg
			Total Tics :		**770.00**				
			Total Concentration:		**770.00**				

SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-58	SDG No.:	Q2484
Lab Sample ID:	Q2484-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.2
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143018.D	1	07/02/25 08:55	07/07/25 19:51	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	380	ug/Kg
108-95-2	Phenol	25.6	U	25.6	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	28.2	U	28.2	200	ug/Kg
95-57-8	2-Chlorophenol	28.3	U	28.3	200	ug/Kg
95-48-7	2-Methylphenol	34.7	U	34.7	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	43.5	U	43.5	200	ug/Kg
98-86-2	Acetophenone	34.2	U	34.2	200	ug/Kg
65794-96-9	3+4-Methylphenols	47.7	U	47.7	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	55.0	U	55.0	92.8	ug/Kg
67-72-1	Hexachloroethane	20.4	U	20.4	200	ug/Kg
98-95-3	Nitrobenzene	21.2	U	21.2	200	ug/Kg
78-59-1	Isophorone	38.0	U	38.0	200	ug/Kg
88-75-5	2-Nitrophenol	67.5	U	67.5	200	ug/Kg
105-67-9	2,4-Dimethylphenol	75.1	U	75.1	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	35.7	U	35.7	200	ug/Kg
120-83-2	2,4-Dichlorophenol	32.8	U	32.8	200	ug/Kg
91-20-3	Naphthalene	140	J	26.3	200	ug/Kg
106-47-8	4-Chloroaniline	41.1	U	41.1	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.3	U	29.3	200	ug/Kg
105-60-2	Caprolactam	60.4	U	60.4	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	33.3	U	33.3	200	ug/Kg
91-57-6	2-Methylnaphthalene	170	J	29.7	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.0	U	23.0	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.7	U	33.7	200	ug/Kg
92-52-4	1,1-Biphenyl	130	J	25.3	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.1	U	26.1	200	ug/Kg
88-74-4	2-Nitroaniline	55.8	U	55.8	200	ug/Kg
131-11-3	Dimethylphthalate	31.4	U	31.4	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-58	SDG No.:	Q2484
Lab Sample ID:	Q2484-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.2
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143018.D	1	07/02/25 08:55	07/07/25 19:51	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	230		33.5	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	39.0	U	39.0	200	ug/Kg
99-09-2	3-Nitroaniline	53.3	U	53.3	200	ug/Kg
83-32-9	Acenaphthene	510		24.7	200	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	380	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	380	ug/Kg
132-64-9	Dibenzofuran	1200		26.3	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	58.1	U	58.1	200	ug/Kg
84-66-2	Diethylphthalate	32.8	U	32.8	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.0	U	31.0	200	ug/Kg
86-73-7	Fluorene	1500		29.3	200	ug/Kg
100-01-6	4-Nitroaniline	74.5	U	74.5	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	38.2	U	38.2	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	32.2	U	32.2	200	ug/Kg
118-74-1	Hexachlorobenzene	29.3	U	29.3	200	ug/Kg
1912-24-9	Atrazine	39.4	U	39.4	200	ug/Kg
87-86-5	Pentachlorophenol	59.5	U	59.5	380	ug/Kg
85-01-8	Phenanthrene	8100	E	24.2	200	ug/Kg
120-12-7	Anthracene	1600		38.6	200	ug/Kg
86-74-8	Carbazole	900		36.2	200	ug/Kg
84-74-2	Di-n-butylphthalate	55.5	U	55.5	200	ug/Kg
206-44-0	Fluoranthene	10800	E	34.8	200	ug/Kg
129-00-0	Pyrene	6200	E	41.7	200	ug/Kg
85-68-7	Butylbenzylphthalate	82.8	UQ	82.8	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	42.6	U	42.6	380	ug/Kg
56-55-3	Benzo(a)anthracene	4400	E	26.7	200	ug/Kg
218-01-9	Chrysene	3600	E	23.1	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	68.7	U	68.7	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	5000	E	22.0	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-58	SDG No.:	Q2484
Lab Sample ID:	Q2484-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.2
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143018.D	1	07/02/25 08:55	07/07/25 19:51	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	2100		26.0	200	ug/Kg
50-32-8	Benzo(a)pyrene	3300	E	34.2	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1500		33.7	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	450		31.8	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1700		29.8	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.7	U	29.7	200	ug/Kg
123-91-1	1,4-Dioxane	52.4	U	52.4	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.8	U	31.8	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	73.9		18 - 112	49%	SPK: 150
13127-88-3	Phenol-d6	71.1		15 - 107	47%	SPK: 150
4165-60-0	Nitrobenzene-d5	45.7		18 - 107	46%	SPK: 100
321-60-8	2-Fluorobiphenyl	38.4		20 - 109	38%	SPK: 100
118-79-6	2,4,6-Tribromophenol	75.7		10 - 116	50%	SPK: 150
1718-51-0	Terphenyl-d14	33.8		10 - 105	34%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	47800	6.875			
1146-65-2	Naphthalene-d8	166000	8.157			
15067-26-2	Acenaphthene-d10	87500	9.916			
1517-22-2	Phenanthrene-d10	153000	11.41			
1719-03-5	Chrysene-d12	121000	14.068			
1520-96-3	Perylene-d12	91100	15.562			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	210	AB		5.09	ug/Kg
90-12-0	1-Methylnaphthalene	230	J		8.97	ug/Kg
000571-61-9	Naphthalene, 1,5-dimethyl-	230	J		9.50	ug/Kg
000581-40-8	Naphthalene, 2,3-dimethyl-	270	J		9.57	ug/Kg
000582-16-1	Naphthalene, 2,7-dimethyl-	110	J		9.60	ug/Kg
000571-58-4	Naphthalene, 1,4-dimethyl-	150	J		9.69	ug/Kg
000829-26-5	Naphthalene, 2,3,6-trimethyl-	120	J		10.2	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-58	SDG No.:	Q2484
Lab Sample ID:	Q2484-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.2
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143018.D	1	07/02/25 08:55	07/07/25 19:51	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
002245-38-7	Naphthalene, 1,6,7-trimethyl-	220	J		10.3	ug/Kg
000119-61-9	Benzophenone	610	J		10.6	ug/Kg
002531-84-2	Phenanthrene, 2-methyl-	97.0	J		11.9	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	160	J		12.0	ug/Kg
002381-21-7	Pyrene, 1-methyl-	150	J		13.1	ug/Kg
000243-17-4	11H-Benzo[b]fluorene	150	J		13.2	ug/Kg
003353-12-6	Pyrene, 4-methyl-	120	J		13.3	ug/Kg
000479-79-8	11H-Benzo[a]fluoren-11-one	130	J		13.7	ug/Kg
000239-35-0	Benzo[b]naphtho[2,1-d]thiophene	150	J		13.8	ug/Kg
027208-37-3	Cyclopenta[cd]pyrene	130	J		13.9	ug/Kg
000082-05-3	7H-Benz[de]anthracen-7-one	130	J		13.9	ug/Kg
000604-53-5	1,1-Binaphthalene	590	J		15.0	ug/Kg
000192-97-2	Benzo[e]pyrene	610	J		15.2	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-58DL	SDG No.:	Q2484
Lab Sample ID:	Q2484-01DL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.2
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143042.D	5	07/02/25 08:55	07/08/25 19:41	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	900	UD	900	1900	ug/Kg
108-95-2	Phenol	130	UD	130	990	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	140	UD	140	990	ug/Kg
95-57-8	2-Chlorophenol	140	UD	140	990	ug/Kg
95-48-7	2-Methylphenol	170	UD	170	990	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	220	UD	220	990	ug/Kg
98-86-2	Acetophenone	170	UD	170	990	ug/Kg
65794-96-9	3+4-Methylphenols	240	UD	240	1900	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	270	UD	270	460	ug/Kg
67-72-1	Hexachloroethane	100	UD	100	990	ug/Kg
98-95-3	Nitrobenzene	110	UD	110	990	ug/Kg
78-59-1	Isophorone	190	UD	190	990	ug/Kg
88-75-5	2-Nitrophenol	340	UD	340	990	ug/Kg
105-67-9	2,4-Dimethylphenol	380	UD	380	990	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	180	UD	180	990	ug/Kg
120-83-2	2,4-Dichlorophenol	160	UD	160	990	ug/Kg
91-20-3	Naphthalene	130	UD	130	990	ug/Kg
106-47-8	4-Chloroaniline	210	UD	210	990	ug/Kg
87-68-3	Hexachlorobutadiene	150	UD	150	990	ug/Kg
105-60-2	Caprolactam	300	UD	300	1900	ug/Kg
59-50-7	4-Chloro-3-methylphenol	170	UD	170	990	ug/Kg
91-57-6	2-Methylnaphthalene	150	UD	150	990	ug/Kg
77-47-4	Hexachlorocyclopentadiene	670	UD	670	1900	ug/Kg
88-06-2	2,4,6-Trichlorophenol	110	UD	110	990	ug/Kg
95-95-4	2,4,5-Trichlorophenol	170	UD	170	990	ug/Kg
92-52-4	1,1-Biphenyl	130	UD	130	990	ug/Kg
91-58-7	2-Chloronaphthalene	130	UD	130	990	ug/Kg
88-74-4	2-Nitroaniline	280	UD	280	990	ug/Kg
131-11-3	Dimethylphthalate	160	UD	160	990	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-58DL	SDG No.:	Q2484
Lab Sample ID:	Q2484-01DL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.2
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143042.D	5	07/02/25 08:55	07/08/25 19:41	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	170	UD	170	990	ug/Kg
606-20-2	2,6-Dinitrotoluene	190	UD	190	990	ug/Kg
99-09-2	3-Nitroaniline	270	UD	270	990	ug/Kg
83-32-9	Acenaphthene	540	JD	120	990	ug/Kg
51-28-5	2,4-Dinitrophenol	1300	UD	1300	1900	ug/Kg
100-02-7	4-Nitrophenol	620	UD	620	1900	ug/Kg
132-64-9	Dibenzofuran	1200	D	130	990	ug/Kg
121-14-2	2,4-Dinitrotoluene	290	UD	290	990	ug/Kg
84-66-2	Diethylphthalate	160	UD	160	990	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	150	UD	150	990	ug/Kg
86-73-7	Fluorene	1500	D	150	990	ug/Kg
100-01-6	4-Nitroaniline	370	UD	370	990	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	600	UD	600	1900	ug/Kg
86-30-6	n-Nitrosodiphenylamine	190	UD	190	990	ug/Kg
101-55-3	4-Bromophenyl-phenylether	160	UD	160	990	ug/Kg
118-74-1	Hexachlorobenzene	150	UD	150	990	ug/Kg
1912-24-9	Atrazine	200	UD	200	990	ug/Kg
87-86-5	Pentachlorophenol	300	UD	300	1900	ug/Kg
85-01-8	Phenanthrene	9700	D	120	990	ug/Kg
120-12-7	Anthracene	1500	D	190	990	ug/Kg
86-74-8	Carbazole	780	JD	180	990	ug/Kg
84-74-2	Di-n-butylphthalate	280	UD	280	990	ug/Kg
206-44-0	Fluoranthene	10900	D	170	990	ug/Kg
129-00-0	Pyrene	5900	D	210	990	ug/Kg
85-68-7	Butylbenzylphthalate	410	UDQ	410	990	ug/Kg
91-94-1	3,3-Dichlorobenzidine	210	UD	210	1900	ug/Kg
56-55-3	Benzo(a)anthracene	4700	D	130	990	ug/Kg
218-01-9	Chrysene	3900	D	120	990	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	340	UD	340	990	ug/Kg
117-84-0	Di-n-octyl phthalate	500	UD	500	1900	ug/Kg
205-99-2	Benzo(b)fluoranthene	5300	D	110	990	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-58DL	SDG No.:	Q2484
Lab Sample ID:	Q2484-01DL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.2
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143042.D	5	07/02/25 08:55	07/08/25 19:41	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1800	D	130	990	ug/Kg
50-32-8	Benzo(a)pyrene	3500	D	170	990	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1500	D	170	990	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	450	JD	160	990	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1600	D	150	990	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	150	UD	150	990	ug/Kg
123-91-1	1,4-Dioxane	260	UD	260	990	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	160	UD	160	990	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	70.3		18 - 112	47%	SPK: 150
13127-88-3	Phenol-d6	75.6		15 - 107	50%	SPK: 150
4165-60-0	Nitrobenzene-d5	46.2		18 - 107	46%	SPK: 100
321-60-8	2-Fluorobiphenyl	44.0		20 - 109	44%	SPK: 100
118-79-6	2,4,6-Tribromophenol	36.6		10 - 116	24%	SPK: 150
1718-51-0	Terphenyl-d14	27.2		10 - 105	27%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	55100	6.869			
1146-65-2	Naphthalene-d8	206000	8.157			
15067-26-2	Acenaphthene-d10	102000	9.916			
1517-22-2	Phenanthrene-d10	148000	11.404			
1719-03-5	Chrysene-d12	120000	14.051			
1520-96-3	Perylene-d12	142000	15.551			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-57	SDG No.:	Q2484
Lab Sample ID:	Q2484-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142995.D	1	07/02/25 08:55	07/03/25 14:25	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	380	ug/Kg
108-95-2	Phenol	25.7	U	25.7	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	28.2	U	28.2	200	ug/Kg
95-57-8	2-Chlorophenol	28.3	U	28.3	200	ug/Kg
95-48-7	2-Methylphenol	34.7	U	34.7	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	43.5	U	43.5	200	ug/Kg
98-86-2	Acetophenone	34.3	U	34.3	200	ug/Kg
65794-96-9	3+4-Methylphenols	47.7	U	47.7	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	55.0	U	55.0	92.9	ug/Kg
67-72-1	Hexachloroethane	20.4	U	20.4	200	ug/Kg
98-95-3	Nitrobenzene	21.3	U	21.3	200	ug/Kg
78-59-1	Isophorone	38.1	U	38.1	200	ug/Kg
88-75-5	2-Nitrophenol	67.6	U	67.6	200	ug/Kg
105-67-9	2,4-Dimethylphenol	75.2	U	75.2	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	35.8	U	35.8	200	ug/Kg
120-83-2	2,4-Dichlorophenol	32.9	U	32.9	200	ug/Kg
91-20-3	Naphthalene	26.4	U	26.4	200	ug/Kg
106-47-8	4-Chloroaniline	41.1	U	41.1	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.4	U	29.4	200	ug/Kg
105-60-2	Caprolactam	60.5	U	60.5	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	33.3	U	33.3	200	ug/Kg
91-57-6	2-Methylnaphthalene	29.7	U	29.7	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.0	U	23.0	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.8	U	33.8	200	ug/Kg
92-52-4	1,1-Biphenyl	25.3	U	25.3	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.1	U	26.1	200	ug/Kg
88-74-4	2-Nitroaniline	55.9	U	55.9	200	ug/Kg
131-11-3	Dimethylphthalate	31.5	U	31.5	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-57	SDG No.:	Q2484
Lab Sample ID:	Q2484-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142995.D	1	07/02/25 08:55	07/03/25 14:25	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	33.6	U	33.6	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	39.0	U	39.0	200	ug/Kg
99-09-2	3-Nitroaniline	53.4	U	53.4	200	ug/Kg
83-32-9	Acenaphthene	24.7	U	24.7	200	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	380	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	380	ug/Kg
132-64-9	Dibenzofuran	26.4	U	26.4	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	58.2	U	58.2	200	ug/Kg
84-66-2	Diethylphthalate	32.9	U	32.9	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.0	U	31.0	200	ug/Kg
86-73-7	Fluorene	29.4	U	29.4	200	ug/Kg
100-01-6	4-Nitroaniline	74.6	U	74.6	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	38.2	U	38.2	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	32.3	U	32.3	200	ug/Kg
118-74-1	Hexachlorobenzene	29.4	U	29.4	200	ug/Kg
1912-24-9	Atrazine	39.5	U	39.5	200	ug/Kg
87-86-5	Pentachlorophenol	59.6	U	59.6	380	ug/Kg
85-01-8	Phenanthrene	170	J	24.3	200	ug/Kg
120-12-7	Anthracene	38.7	U	38.7	200	ug/Kg
86-74-8	Carbazole	36.2	U	36.2	200	ug/Kg
84-74-2	Di-n-butylphthalate	55.6	U	55.6	200	ug/Kg
206-44-0	Fluoranthene	280		34.8	200	ug/Kg
129-00-0	Pyrene	240		41.8	200	ug/Kg
85-68-7	Butylbenzylphthalate	82.9	UQ	82.9	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	42.6	U	42.6	380	ug/Kg
56-55-3	Benzo(a)anthracene	130	J	26.7	200	ug/Kg
218-01-9	Chrysene	120	J	23.1	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	68.7	U	68.7	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	140	J	22.1	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-57	SDG No.:	Q2484
Lab Sample ID:	Q2484-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142995.D	1	07/02/25 08:55	07/03/25 14:25	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	26.0	U	26.0	200	ug/Kg
50-32-8	Benzo(a)pyrene	130	J	34.3	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	33.8	U	33.8	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	31.8	U	31.8	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	29.8	U	29.8	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.7	U	29.7	200	ug/Kg
123-91-1	1,4-Dioxane	52.5	U	52.5	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.8	U	31.8	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	64.1		18 - 112	43%	SPK: 150
13127-88-3	Phenol-d6	64.3		15 - 107	43%	SPK: 150
4165-60-0	Nitrobenzene-d5	39.5		18 - 107	40%	SPK: 100
321-60-8	2-Fluorobiphenyl	36.5		20 - 109	37%	SPK: 100
118-79-6	2,4,6-Tribromophenol	63.6		10 - 116	42%	SPK: 150
1718-51-0	Terphenyl-d14	36.8		10 - 105	37%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	70800	6.875			
1146-65-2	Naphthalene-d8	272000	8.157			
15067-26-2	Acenaphthene-d10	145000	9.916			
1517-22-2	Phenanthrene-d10	247000	11.404			
1719-03-5	Chrysene-d12	137000	14.051			
1520-96-3	Perylene-d12	172000	15.545			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	180	AB		5.09	ug/Kg
000119-61-9	Benzophenone	320	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	80.9	J		11.9	ug/Kg
000192-97-2	Benzo[e]pyrene	86.3	J		15.4	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	07/01/25
Project:	South River WM Replacement			Date Received:	07/01/25
Client Sample ID:	TP-57			SDG No.:	Q2484
Lab Sample ID:	Q2484-02			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	86
Sample Wt/Vol:	30.04	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142995.D	1	07/02/25 08:55	07/03/25 14:25	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-64	SDG No.:	Q2484
Lab Sample ID:	Q2484-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.4
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143021.D	5	07/02/25 08:55	07/07/25 21:22	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	880	U	880	1900	ug/Kg
108-95-2	Phenol	120	U	120	960	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	140	U	140	960	ug/Kg
95-57-8	2-Chlorophenol	140	U	140	960	ug/Kg
95-48-7	2-Methylphenol	170	U	170	960	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	210	U	210	960	ug/Kg
98-86-2	Acetophenone	170	U	170	960	ug/Kg
65794-96-9	3+4-Methylphenols	230	U	230	1900	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	270	U	270	450	ug/Kg
67-72-1	Hexachloroethane	99.3	U	99.3	960	ug/Kg
98-95-3	Nitrobenzene	100	U	100	960	ug/Kg
78-59-1	Isophorone	190	U	190	960	ug/Kg
88-75-5	2-Nitrophenol	330	U	330	960	ug/Kg
105-67-9	2,4-Dimethylphenol	370	U	370	960	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	170	U	170	960	ug/Kg
120-83-2	2,4-Dichlorophenol	160	U	160	960	ug/Kg
91-20-3	Naphthalene	130	U	130	960	ug/Kg
106-47-8	4-Chloroaniline	200	U	200	960	ug/Kg
87-68-3	Hexachlorobutadiene	140	U	140	960	ug/Kg
105-60-2	Caprolactam	290	U	290	1900	ug/Kg
59-50-7	4-Chloro-3-methylphenol	160	U	160	960	ug/Kg
91-57-6	2-Methylnaphthalene	140	U	140	960	ug/Kg
77-47-4	Hexachlorocyclopentadiene	650	U	650	1900	ug/Kg
88-06-2	2,4,6-Trichlorophenol	110	U	110	960	ug/Kg
95-95-4	2,4,5-Trichlorophenol	160	U	160	960	ug/Kg
92-52-4	1,1-Biphenyl	120	U	120	960	ug/Kg
91-58-7	2-Chloronaphthalene	130	U	130	960	ug/Kg
88-74-4	2-Nitroaniline	270	U	270	960	ug/Kg
131-11-3	Dimethylphthalate	150	U	150	960	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-64	SDG No.:	Q2484
Lab Sample ID:	Q2484-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.4
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143021.D	5	07/02/25 08:55	07/07/25 21:22	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	160	U	160	960	ug/Kg
606-20-2	2,6-Dinitrotoluene	190	U	190	960	ug/Kg
99-09-2	3-Nitroaniline	260	U	260	960	ug/Kg
83-32-9	Acenaphthene	120	U	120	960	ug/Kg
51-28-5	2,4-Dinitrophenol	1300	U	1300	1900	ug/Kg
100-02-7	4-Nitrophenol	600	U	600	1900	ug/Kg
132-64-9	Dibenzofuran	130	U	130	960	ug/Kg
121-14-2	2,4-Dinitrotoluene	280	U	280	960	ug/Kg
84-66-2	Diethylphthalate	160	U	160	960	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	150	U	150	960	ug/Kg
86-73-7	Fluorene	140	U	140	960	ug/Kg
100-01-6	4-Nitroaniline	360	U	360	960	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	580	U	580	1900	ug/Kg
86-30-6	n-Nitrosodiphenylamine	190	U	190	960	ug/Kg
101-55-3	4-Bromophenyl-phenylether	160	U	160	960	ug/Kg
118-74-1	Hexachlorobenzene	140	U	140	960	ug/Kg
1912-24-9	Atrazine	190	U	190	960	ug/Kg
87-86-5	Pentachlorophenol	290	U	290	1900	ug/Kg
85-01-8	Phenanthrene	120	U	120	960	ug/Kg
120-12-7	Anthracene	190	U	190	960	ug/Kg
86-74-8	Carbazole	180	U	180	960	ug/Kg
84-74-2	Di-n-butylphthalate	270	U	270	960	ug/Kg
206-44-0	Fluoranthene	650	J	170	960	ug/Kg
129-00-0	Pyrene	520	J	200	960	ug/Kg
85-68-7	Butylbenzylphthalate	400	UQ	400	960	ug/Kg
91-94-1	3,3-Dichlorobenzidine	210	U	210	1900	ug/Kg
56-55-3	Benzo(a)anthracene	130	U	130	960	ug/Kg
218-01-9	Chrysene	110	U	110	960	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	330	U	330	960	ug/Kg
117-84-0	Di-n-octyl phthalate	490	U	490	1900	ug/Kg
205-99-2	Benzo(b)fluoranthene	430	J	110	960	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-64	SDG No.:	Q2484
Lab Sample ID:	Q2484-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.4
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143021.D	5	07/02/25 08:55	07/07/25 21:22	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	130	U	130	960	ug/Kg
50-32-8	Benzo(a)pyrene	170	U	170	960	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	160	U	160	960	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	150	U	150	960	ug/Kg
191-24-2	Benzo(g,h,i)perylene	150	U	150	960	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	140	U	140	960	ug/Kg
123-91-1	1,4-Dioxane	260	U	260	960	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	150	U	150	960	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	65.4		18 - 112	44%	SPK: 150
13127-88-3	Phenol-d6	61.8		15 - 107	41%	SPK: 150
4165-60-0	Nitrobenzene-d5	39.4		18 - 107	39%	SPK: 100
321-60-8	2-Fluorobiphenyl	43.9		20 - 109	44%	SPK: 100
118-79-6	2,4,6-Tribromophenol	63.6		10 - 116	42%	SPK: 150
1718-51-0	Terphenyl-d14	39.8		10 - 105	40%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	45300	6.875			
1146-65-2	Naphthalene-d8	159000	8.157			
15067-26-2	Acenaphthene-d10	77600	9.916			
1517-22-2	Phenanthrene-d10	141000	11.404			
1719-03-5	Chrysene-d12	110000	14.057			
1520-96-3	Perylene-d12	80900	15.557			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-107	SDG No.:	Q2484
Lab Sample ID:	Q2484-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.8
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143000.D	1	07/02/25 08:55	07/03/25 16:59	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	U	190	390	ug/Kg
108-95-2	Phenol	26.3	U	26.3	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	29.0	U	29.0	200	ug/Kg
95-57-8	2-Chlorophenol	29.1	U	29.1	200	ug/Kg
95-48-7	2-Methylphenol	35.6	U	35.6	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	44.7	U	44.7	200	ug/Kg
98-86-2	Acetophenone	35.2	U	35.2	200	ug/Kg
65794-96-9	3+4-Methylphenols	49.0	U	49.0	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	56.5	U	56.5	95.4	ug/Kg
67-72-1	Hexachloroethane	21.0	U	21.0	200	ug/Kg
98-95-3	Nitrobenzene	21.8	U	21.8	200	ug/Kg
78-59-1	Isophorone	39.1	U	39.1	200	ug/Kg
88-75-5	2-Nitrophenol	69.4	U	69.4	200	ug/Kg
105-67-9	2,4-Dimethylphenol	77.2	U	77.2	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	36.7	U	36.7	200	ug/Kg
120-83-2	2,4-Dichlorophenol	33.7	U	33.7	200	ug/Kg
91-20-3	Naphthalene	27.1	U	27.1	200	ug/Kg
106-47-8	4-Chloroaniline	42.2	U	42.2	200	ug/Kg
87-68-3	Hexachlorobutadiene	30.2	U	30.2	200	ug/Kg
105-60-2	Caprolactam	62.1	U	62.1	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	34.2	U	34.2	200	ug/Kg
91-57-6	2-Methylnaphthalene	30.5	U	30.5	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.6	U	23.6	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	34.7	U	34.7	200	ug/Kg
92-52-4	1,1-Biphenyl	26.0	U	26.0	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.8	U	26.8	200	ug/Kg
88-74-4	2-Nitroaniline	57.3	U	57.3	200	ug/Kg
131-11-3	Dimethylphthalate	32.3	U	32.3	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-107	SDG No.:	Q2484
Lab Sample ID:	Q2484-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.8
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143000.D	1	07/02/25 08:55	07/03/25 16:59	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	34.5	U	34.5	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	40.1	U	40.1	200	ug/Kg
99-09-2	3-Nitroaniline	54.8	U	54.8	200	ug/Kg
83-32-9	Acenaphthene	25.4	U	25.4	200	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	390	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	390	ug/Kg
132-64-9	Dibenzofuran	27.1	U	27.1	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	59.7	U	59.7	200	ug/Kg
84-66-2	Diethylphthalate	33.7	U	33.7	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.8	U	31.8	200	ug/Kg
86-73-7	Fluorene	30.2	U	30.2	200	ug/Kg
100-01-6	4-Nitroaniline	76.5	U	76.5	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	39.2	U	39.2	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	33.1	U	33.1	200	ug/Kg
118-74-1	Hexachlorobenzene	30.2	U	30.2	200	ug/Kg
1912-24-9	Atrazine	40.5	U	40.5	200	ug/Kg
87-86-5	Pentachlorophenol	61.2	U	61.2	390	ug/Kg
85-01-8	Phenanthrene	24.9	U	24.9	200	ug/Kg
120-12-7	Anthracene	39.7	U	39.7	200	ug/Kg
86-74-8	Carbazole	37.2	U	37.2	200	ug/Kg
84-74-2	Di-n-butylphthalate	57.1	U	57.1	200	ug/Kg
206-44-0	Fluoranthene	35.8	U	35.8	200	ug/Kg
129-00-0	Pyrene	42.9	U	42.9	200	ug/Kg
85-68-7	Butylbenzylphthalate	85.1	UQ	85.1	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	43.8	U	43.8	390	ug/Kg
56-55-3	Benzo(a)anthracene	27.4	U	27.4	200	ug/Kg
218-01-9	Chrysene	23.7	U	23.7	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	70.6	U	70.6	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	22.7	U	22.7	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-107	SDG No.:	Q2484
Lab Sample ID:	Q2484-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.8
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143000.D	1	07/02/25 08:55	07/03/25 16:59	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	26.7	U	26.7	200	ug/Kg
50-32-8	Benzo(a)pyrene	35.2	U	35.2	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	34.7	U	34.7	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	32.7	U	32.7	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	30.6	U	30.6	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	30.5	U	30.5	200	ug/Kg
123-91-1	1,4-Dioxane	53.9	U	53.9	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	32.7	U	32.7	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	79.2		18 - 112	53%	SPK: 150
13127-88-3	Phenol-d6	81.0		15 - 107	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	50.0		18 - 107	50%	SPK: 100
321-60-8	2-Fluorobiphenyl	47.6		20 - 109	48%	SPK: 100
118-79-6	2,4,6-Tribromophenol	74.5		10 - 116	50%	SPK: 150
1718-51-0	Terphenyl-d14	37.2		10 - 105	37%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	72100	6.875			
1146-65-2	Naphthalene-d8	273000	8.157			
15067-26-2	Acenaphthene-d10	143000	9.91			
1517-22-2	Phenanthrene-d10	221000	11.404			
1719-03-5	Chrysene-d12	143000	14.051			
1520-96-3	Perylene-d12	173000	15.539			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	230	AB		5.09	ug/Kg
000119-61-9	Benzophenone	360	J		10.6	ug/Kg
000593-49-7	Heptacosane	110	J		10.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	110	J		11.9	ug/Kg
006222-03-3	Trifluoroacetoxy hexadecane	170	J		13.9	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	07/01/25
Project:	South River WM Replacement			Date Received:	07/01/25
Client Sample ID:	TP-107			SDG No.:	Q2484
Lab Sample ID:	Q2484-04			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	83.8
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143000.D	1	07/02/25 08:55	07/03/25 16:59	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-106	SDG No.:	Q2484
Lab Sample ID:	Q2484-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.9
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142997.D	1	07/02/25 08:55	07/03/25 15:27	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	370	ug/Kg
108-95-2	Phenol	25.1	U	25.1	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	27.6	U	27.6	190	ug/Kg
95-57-8	2-Chlorophenol	27.7	U	27.7	190	ug/Kg
95-48-7	2-Methylphenol	33.9	U	33.9	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	42.6	U	42.6	190	ug/Kg
98-86-2	Acetophenone	33.5	U	33.5	190	ug/Kg
65794-96-9	3+4-Methylphenols	46.7	U	46.7	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	53.8	U	53.8	90.8	ug/Kg
67-72-1	Hexachloroethane	20.0	U	20.0	190	ug/Kg
98-95-3	Nitrobenzene	20.8	U	20.8	190	ug/Kg
78-59-1	Isophorone	37.2	U	37.2	190	ug/Kg
88-75-5	2-Nitrophenol	66.1	U	66.1	190	ug/Kg
105-67-9	2,4-Dimethylphenol	73.6	U	73.6	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	35.0	U	35.0	190	ug/Kg
120-83-2	2,4-Dichlorophenol	32.1	U	32.1	190	ug/Kg
91-20-3	Naphthalene	25.8	U	25.8	190	ug/Kg
106-47-8	4-Chloroaniline	40.2	U	40.2	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.7	U	28.7	190	ug/Kg
105-60-2	Caprolactam	59.2	U	59.2	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	32.6	U	32.6	190	ug/Kg
91-57-6	2-Methylnaphthalene	29.1	U	29.1	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.5	U	22.5	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.0	U	33.0	190	ug/Kg
92-52-4	1,1-Biphenyl	24.8	U	24.8	190	ug/Kg
91-58-7	2-Chloronaphthalene	25.5	U	25.5	190	ug/Kg
88-74-4	2-Nitroaniline	54.6	U	54.6	190	ug/Kg
131-11-3	Dimethylphthalate	30.8	U	30.8	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-106	SDG No.:	Q2484
Lab Sample ID:	Q2484-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.9
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142997.D	1	07/02/25 08:55	07/03/25 15:27	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	32.8	U	32.8	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	38.1	U	38.1	190	ug/Kg
99-09-2	3-Nitroaniline	52.2	U	52.2	190	ug/Kg
83-32-9	Acenaphthene	24.2	U	24.2	190	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	370	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	370	ug/Kg
132-64-9	Dibenzofuran	25.8	U	25.8	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	56.9	U	56.9	190	ug/Kg
84-66-2	Diethylphthalate	32.1	U	32.1	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	30.3	U	30.3	190	ug/Kg
86-73-7	Fluorene	28.7	U	28.7	190	ug/Kg
100-01-6	4-Nitroaniline	72.9	U	72.9	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	37.4	U	37.4	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	31.6	U	31.6	190	ug/Kg
118-74-1	Hexachlorobenzene	28.7	U	28.7	190	ug/Kg
1912-24-9	Atrazine	38.6	U	38.6	190	ug/Kg
87-86-5	Pentachlorophenol	58.2	U	58.2	370	ug/Kg
85-01-8	Phenanthrene	23.7	U	23.7	190	ug/Kg
120-12-7	Anthracene	37.8	U	37.8	190	ug/Kg
86-74-8	Carbazole	35.4	U	35.4	190	ug/Kg
84-74-2	Di-n-butylphthalate	54.4	U	54.4	190	ug/Kg
206-44-0	Fluoranthene	34.1	U	34.1	190	ug/Kg
129-00-0	Pyrene	40.9	U	40.9	190	ug/Kg
85-68-7	Butylbenzylphthalate	81.1	UQ	81.1	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	41.7	U	41.7	370	ug/Kg
56-55-3	Benzo(a)anthracene	26.1	U	26.1	190	ug/Kg
218-01-9	Chrysene	22.6	U	22.6	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	67.2	U	67.2	190	ug/Kg
117-84-0	Di-n-octyl phthalate	98.6	U	98.6	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	21.6	U	21.6	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-106	SDG No.:	Q2484
Lab Sample ID:	Q2484-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.9
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142997.D	1	07/02/25 08:55	07/03/25 15:27	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	25.4	U	25.4	190	ug/Kg
50-32-8	Benzo(a)pyrene	33.5	U	33.5	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	33.0	U	33.0	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	31.1	U	31.1	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	29.2	U	29.2	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.1	U	29.1	190	ug/Kg
123-91-1	1,4-Dioxane	51.3	U	51.3	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.1	U	31.1	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	72.7		18 - 112	48%	SPK: 150
13127-88-3	Phenol-d6	74.9		15 - 107	50%	SPK: 150
4165-60-0	Nitrobenzene-d5	44.9		18 - 107	45%	SPK: 100
321-60-8	2-Fluorobiphenyl	44.3		20 - 109	44%	SPK: 100
118-79-6	2,4,6-Tribromophenol	70.5		10 - 116	47%	SPK: 150
1718-51-0	Terphenyl-d14	40.8		10 - 105	41%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	73300	6.875			
1146-65-2	Naphthalene-d8	283000	8.157			
15067-26-2	Acenaphthene-d10	150000	9.91			
1517-22-2	Phenanthrene-d10	249000	11.404			
1719-03-5	Chrysene-d12	144000	14.045			
1520-96-3	Perylene-d12	180000	15.539			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	210	AB		5.09	ug/Kg
000119-61-9	Benzophenone	360	J		10.6	ug/Kg
959261-23-5	Heptafluorobutyric acid, pentadecy	140	J		13.9	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	07/01/25
Project:	South River WM Replacement			Date Received:	07/01/25
Client Sample ID:	TP-106			SDG No.:	Q2484
Lab Sample ID:	Q2484-05			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	87.9
Sample Wt/Vol:	30.06	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142997.D	1	07/02/25 08:55	07/03/25 15:27	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-104	SDG No.:	Q2484
Lab Sample ID:	Q2484-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.3
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142996.D	1	07/02/25 08:55	07/03/25 14:56	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	380	ug/Kg
108-95-2	Phenol	25.2	U	25.2	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	27.8	U	27.8	190	ug/Kg
95-57-8	2-Chlorophenol	27.9	U	27.9	190	ug/Kg
95-48-7	2-Methylphenol	34.1	U	34.1	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	42.8	U	42.8	190	ug/Kg
98-86-2	Acetophenone	33.7	U	33.7	190	ug/Kg
65794-96-9	3+4-Methylphenols	46.9	U	46.9	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	54.1	U	54.1	91.4	ug/Kg
67-72-1	Hexachloroethane	20.1	U	20.1	190	ug/Kg
98-95-3	Nitrobenzene	20.9	U	20.9	190	ug/Kg
78-59-1	Isophorone	37.5	U	37.5	190	ug/Kg
88-75-5	2-Nitrophenol	66.5	U	66.5	190	ug/Kg
105-67-9	2,4-Dimethylphenol	74.0	U	74.0	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	35.2	U	35.2	190	ug/Kg
120-83-2	2,4-Dichlorophenol	32.3	U	32.3	190	ug/Kg
91-20-3	Naphthalene	25.9	U	25.9	190	ug/Kg
106-47-8	4-Chloroaniline	40.4	U	40.4	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.9	U	28.9	190	ug/Kg
105-60-2	Caprolactam	59.5	U	59.5	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	32.8	U	32.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	29.2	U	29.2	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.6	U	22.6	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.2	U	33.2	190	ug/Kg
92-52-4	1,1-Biphenyl	24.9	U	24.9	190	ug/Kg
91-58-7	2-Chloronaphthalene	25.7	U	25.7	190	ug/Kg
88-74-4	2-Nitroaniline	54.9	U	54.9	190	ug/Kg
131-11-3	Dimethylphthalate	30.9	U	30.9	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-104	SDG No.:	Q2484
Lab Sample ID:	Q2484-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.3
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142996.D	1	07/02/25 08:55	07/03/25 14:56	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	33.0	U	33.0	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	38.4	U	38.4	190	ug/Kg
99-09-2	3-Nitroaniline	52.5	U	52.5	190	ug/Kg
83-32-9	Acenaphthene	24.3	U	24.3	190	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	380	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	380	ug/Kg
132-64-9	Dibenzofuran	25.9	U	25.9	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	57.2	U	57.2	190	ug/Kg
84-66-2	Diethylphthalate	32.3	U	32.3	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	30.5	U	30.5	190	ug/Kg
86-73-7	Fluorene	28.9	U	28.9	190	ug/Kg
100-01-6	4-Nitroaniline	73.3	U	73.3	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	37.6	U	37.6	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	31.7	U	31.7	190	ug/Kg
118-74-1	Hexachlorobenzene	28.9	U	28.9	190	ug/Kg
1912-24-9	Atrazine	38.8	U	38.8	190	ug/Kg
87-86-5	Pentachlorophenol	58.6	U	58.6	380	ug/Kg
85-01-8	Phenanthrene	23.9	U	23.9	190	ug/Kg
120-12-7	Anthracene	38.0	U	38.0	190	ug/Kg
86-74-8	Carbazole	35.6	U	35.6	190	ug/Kg
84-74-2	Di-n-butylphthalate	54.7	U	54.7	190	ug/Kg
206-44-0	Fluoranthene	34.3	U	34.3	190	ug/Kg
129-00-0	Pyrene	41.1	U	41.1	190	ug/Kg
85-68-7	Butylbenzylphthalate	81.5	UQ	81.5	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	41.9	U	41.9	380	ug/Kg
56-55-3	Benzo(a)anthracene	26.3	U	26.3	190	ug/Kg
218-01-9	Chrysene	22.7	U	22.7	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	67.6	U	67.6	190	ug/Kg
117-84-0	Di-n-octyl phthalate	99.1	U	99.1	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	21.7	U	21.7	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-104	SDG No.:	Q2484
Lab Sample ID:	Q2484-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.3
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142996.D	1	07/02/25 08:55	07/03/25 14:56	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	25.6	U	25.6	190	ug/Kg
50-32-8	Benzo(a)pyrene	33.7	U	33.7	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	33.2	U	33.2	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	31.3	U	31.3	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	29.4	U	29.4	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.2	U	29.2	190	ug/Kg
123-91-1	1,4-Dioxane	51.6	U	51.6	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.3	U	31.3	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	76.8		18 - 112	51%	SPK: 150
13127-88-3	Phenol-d6	77.6		15 - 107	52%	SPK: 150
4165-60-0	Nitrobenzene-d5	47.6		18 - 107	48%	SPK: 100
321-60-8	2-Fluorobiphenyl	46.0		20 - 109	46%	SPK: 100
118-79-6	2,4,6-Tribromophenol	76.4		10 - 116	51%	SPK: 150
1718-51-0	Terphenyl-d14	46.6		10 - 105	47%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	71600	6.875			
1146-65-2	Naphthalene-d8	275000	8.157			
15067-26-2	Acenaphthene-d10	149000	9.91			
1517-22-2	Phenanthrene-d10	257000	11.404			
1719-03-5	Chrysene-d12	144000	14.051			
1520-96-3	Perylene-d12	171000	15.539			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	220	AB		5.09	ug/Kg
000119-61-9	Benzophenone	370	J		10.6	ug/Kg
000661-19-8	Behenic alcohol	180	J		13.9	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	07/01/25
Project:	South River WM Replacement			Date Received:	07/01/25
Client Sample ID:	TP-104			SDG No.:	Q2484
Lab Sample ID:	Q2484-06			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	87.3
Sample Wt/Vol:	30.09	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142996.D	1	07/02/25 08:55	07/03/25 14:56	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SW-846

SDG No.: Q2484

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB168694BL	PB168694BL	2-Fluorophenol	150	121	81		18	112
		Phenol-d6	150	119	80		15	107
		Nitrobenzene-d5	100	76.7	77		18	107
		2-Fluorobiphenyl	100	75.5	76		20	109
		2,4,6-Tribromophenol	150	124	82		10	116
		Terphenyl-d14	100	76.8	77		10	105
PB168694BS	PB168694BS	2-Fluorophenol	150	119	80		18	112
		Phenol-d6	150	117	78		15	107
		Nitrobenzene-d5	100	76.6	77		18	107
		2-Fluorobiphenyl	100	79.8	80		20	109
		2,4,6-Tribromophenol	150	122	81		10	116
		Terphenyl-d14	100	67.7	68		10	105
Q2475-01MS	SOIL-PILEMS	2-Fluorophenol	150	70.7	47		18	112
		Phenol-d6	150	74.0	49		15	107
		Nitrobenzene-d5	100	46.8	47		18	107
		2-Fluorobiphenyl	100	43.0	43		20	109
		2,4,6-Tribromophenol	150	67.8	45		10	116
		Terphenyl-d14	100	33.5	33		10	105
Q2475-01MSD	SOIL-PILEMSD	2-Fluorophenol	150	70.0	47		18	112
		Phenol-d6	150	73.3	49		15	107
		Nitrobenzene-d5	100	44.8	45		18	107
		2-Fluorobiphenyl	100	42.0	42		20	109
		2,4,6-Tribromophenol	150	61.7	41		10	116
		Terphenyl-d14	100	31.4	31		10	105
Q2484-01	TP-58	2-Fluorophenol	150	73.9	49		18	112
		Phenol-d6	150	71.1	47		15	107
		Nitrobenzene-d5	100	45.7	46		18	107
		2-Fluorobiphenyl	100	38.4	38		20	109
		2,4,6-Tribromophenol	150	75.7	50		10	116
		Terphenyl-d14	100	33.8	34		10	105
Q2484-01DL	TP-58DL	2-Fluorophenol	150	70.3	47		18	112
		Phenol-d6	150	75.6	50		15	107
		Nitrobenzene-d5	100	46.2	46		18	107
		2-Fluorobiphenyl	100	44.0	44		20	109
		2,4,6-Tribromophenol	150	36.6	24		10	116
		Terphenyl-d14	100	27.2	27		10	105
Q2484-02	TP-57	2-Fluorophenol	150	64.1	43		18	112
		Phenol-d6	150	64.3	43		15	107
		Nitrobenzene-d5	100	39.5	40		18	107
		2-Fluorobiphenyl	100	36.5	37		20	109
		2,4,6-Tribromophenol	150	63.6	42		10	116
		Terphenyl-d14	100	36.8	37		10	105
Q2484-03	TP-64	2-Fluorophenol	150	65.4	44		18	112
		Phenol-d6	150	61.8	41		15	107
		Nitrobenzene-d5	100	39.4	39		18	107
		2-Fluorobiphenyl	100	43.9	44		20	109
		2,4,6-Tribromophenol	150	63.6	42		10	116
		Terphenyl-d14	100	39.8	40		10	105
Q2484-04	TP-107	2-Fluorophenol	150	79.2	53		18	112
		Phenol-d6	150	81.0	54		15	107
		Nitrobenzene-d5	100	50.0	50		18	107

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Surrogate Summary

SW-846

SDG No.: Q2484

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q2484-04	TP-107	2-Fluorobiphenyl	100	47.6	48		20	109
		2,4,6-Tribromophenol	150	74.5	50		10	116
		Terphenyl-d14	100	37.2	37		10	105
Q2484-05	TP-106	2-Fluorophenol	150	72.7	48		18	112
		Phenol-d6	150	74.9	50		15	107
		Nitrobenzene-d5	100	44.9	45		18	107
		2-Fluorobiphenyl	100	44.3	44		20	109
		2,4,6-Tribromophenol	150	70.5	47		10	116
		Terphenyl-d14	100	40.8	41		10	105
Q2484-06	TP-104	2-Fluorophenol	150	76.8	51		18	112
		Phenol-d6	150	77.6	52		15	107
		Nitrobenzene-d5	100	47.6	48		18	107
		2-Fluorobiphenyl	100	46.0	46		20	109
		2,4,6-Tribromophenol	150	76.4	51		10	116
		Terphenyl-d14	100	46.6	47		10	105

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2484 **Analytical Method:** SW8270E

Client: CDM Smith **DataFile:** BF142982.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2475-01MS		**Client Sample ID: SOIL-PILEMS**									
Benzaldehyde	1300	0	1300	ug/Kg	100				10	171	
Phenol	1300	0	1100	ug/Kg	85				51	122	
bis(2-Chloroethyl)ether	1300	0	1100	ug/Kg	85				54	125	
2-Chlorophenol	1300	0	1100	ug/Kg	85				51	121	
2-Methylphenol	1300	0	1200	ug/Kg	92				47	125	
2,2-oxybis(1-Chloropropane)	1300	0	1100	ug/Kg	85				46	119	
Acetophenone	1300	0	1200	ug/Kg	92				55	128	
3+4-Methylphenols	1300	0	1200	ug/Kg	92				49	125	
N-Nitroso-di-n-propylamine	1300	0	1100	ug/Kg	85				59	119	
Hexachloroethane	1300	0	1100	ug/Kg	85				51	116	
Nitrobenzene	1300	0	1100	ug/Kg	85				47	124	
Isophorone	1300	0	1200	ug/Kg	92				49	127	
2-Nitrophenol	1300	0	1200	ug/Kg	92				43	131	
2,4-Dimethylphenol	1300	0	1100	ug/Kg	85				63	151	
bis(2-Chloroethoxy)methane	1300	0	1200	ug/Kg	92				51	119	
2,4-Dichlorophenol	1300	0	1200	ug/Kg	92				50	122	
Naphthalene	1300	0	1200	ug/Kg	92				51	121	
4-Chloroaniline	1300	0	590	ug/Kg	45				10	100	
Hexachlorobutadiene	1300	0	1200	ug/Kg	92				44	126	
Caprolactam	1300	0	1400	ug/Kg	108				51	134	
4-Chloro-3-methylphenol	1300	0	1200	ug/Kg	92				57	132	
2-Methylnaphthalene	1300	0	1200	ug/Kg	92				59	123	
Hexachlorocyclopentadiene	2500	0	1600	ug/Kg	64				10	175	
2,4,6-Trichlorophenol	1300	0	1200	ug/Kg	92				33	141	
2,4,5-Trichlorophenol	1300	0	1200	ug/Kg	92				38	135	
1,1-Biphenyl	1300	0	1200	ug/Kg	92				55	131	
2-Chloronaphthalene	1300	0	1200	ug/Kg	92				48	124	
2-Nitroaniline	1300	0	1200	ug/Kg	92				47	134	
Dimethylphthalate	1300	0	1300	ug/Kg	100				54	120	
Acenaphthylene	1300	0	1200	ug/Kg	92				57	125	
2,6-Dinitrotoluene	1300	0	1200	ug/Kg	92				48	127	
3-Nitroaniline	1300	0	780	ug/Kg	60				10	112	
Acenaphthene	1300	0	1300	ug/Kg	100				70	121	
2,4-Dinitrophenol	2500	0	2200	ug/Kg	88				10	155	
4-Nitrophenol	2500	0	2100	ug/Kg	84				10	175	
Dibenzofuran	1300	0	1200	ug/Kg	92				52	114	
2,4-Dinitrotoluene	1300	0	1200	ug/Kg	92				41	140	
Diethylphthalate	1300	0	1300	ug/Kg	100				51	119	
4-Chlorophenyl-phenylether	1300	0	1200	ug/Kg	92				48	122	
Fluorene	1300	70.1	1200	ug/Kg	87				53	118	
4-Nitroaniline	1300	0	1200	ug/Kg	92				29	140	
4,6-Dinitro-2-methylphenol	1300	0	1200	ug/Kg	92				10	160	
N-Nitrosodiphenylamine	1300	0	1300	ug/Kg	100				73	118	
4-Bromophenyl-phenylether	1300	0	1300	ug/Kg	100				65	121	
Hexachlorobenzene	1300	0	1200	ug/Kg	92				67	118	
Atrazine	1300	0	1500	ug/Kg	115				45	175	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2484 **Analytical Method:** SW8270E

Client: CDM Smith **DataFile:** BF142982.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	2500	0	2300	ug/Kg	92				13	153	
Phenanthrene	1300	420	1500	ug/Kg	83				52	128	
Anthracene	1300	64.9	1200	ug/Kg	87				62	124	
Carbazole	1300	56.1	1200	ug/Kg	88				59	119	
Di-n-butylphthalate	1300	0	1500	ug/Kg	115				55	125	
Fluoranthene	1300	1200	2100	ug/Kg	69				44	125	
Pyrene	1300	680	1400	ug/Kg	55				37	122	
Butylbenzylphthalate	1300	0	1300	ug/Kg	100				44	135	
3,3-Dichlorobenzidine	1300	0	740	ug/Kg	57				15	112	
Benzo(a)anthracene	1300	390	1500	ug/Kg	85				53	119	
Chrysene	1300	500	1600	ug/Kg	85				57	121	
bis(2-Ethylhexyl)phthalate	1300	0	1300	ug/Kg	100				42	169	
Di-n-octyl phthalate	1300	0	1100	ug/Kg	85				51	156	
Benzo(b)fluoranthene	1300	660	1800	ug/Kg	88				52	117	
Benzo(k)fluoranthene	1300	210	1600	ug/Kg	107				57	134	
Benzo(a)pyrene	1300	310	1500	ug/Kg	92				70	142	
Indeno(1,2,3-cd)pyrene	1300	100	890	ug/Kg	61				40	129	
Dibenz(a,h)anthracene	1300	0	840	ug/Kg	65				43	123	
Benzo(g,h,i)perylene	1300	120	850	ug/Kg	56				24	125	
1,2,4,5-Tetrachlorobenzene	1300	0	1200	ug/Kg	92				52	134	
1,4-Dioxane	1300	0	890	ug/Kg	68				46	112	
2,3,4,6-Tetrachlorophenol	1300	0	1100	ug/Kg	85				24	146	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2484 **Analytical Method:** SW8270E

Client: CDM Smith **DataFile:** BF142983.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2475-01MSD		**Client Sample ID: SOIL-PILEMSD**									
Benzaldehyde	1300	0	1200	ug/Kg	92		8		10	171	20
Phenol	1300	0	1100	ug/Kg	85		0		51	122	20
bis(2-Chloroethyl)ether	1300	0	1100	ug/Kg	85		0		54	125	20
2-Chlorophenol	1300	0	1100	ug/Kg	85		0		51	121	20
2-Methylphenol	1300	0	1100	ug/Kg	85		8		47	125	20
2,2-oxybis(1-Chloropropane)	1300	0	1000	ug/Kg	77		10		46	119	20
Acetophenone	1300	0	1100	ug/Kg	85		8		55	128	20
3+4-Methylphenols	1300	0	1200	ug/Kg	92		0		49	125	20
N-Nitroso-di-n-propylamine	1300	0	1100	ug/Kg	85		0		59	119	20
Hexachloroethane	1300	0	1100	ug/Kg	85		0		51	116	20
Nitrobenzene	1300	0	1100	ug/Kg	85		0		47	124	20
Isophorone	1300	0	1100	ug/Kg	85		8		49	127	20
2-Nitrophenol	1300	0	1200	ug/Kg	92		0		43	131	20
2,4-Dimethylphenol	1300	0	1100	ug/Kg	85		0		63	151	20
bis(2-Chloroethoxy)methane	1300	0	1100	ug/Kg	85		8		51	119	20
2,4-Dichlorophenol	1300	0	1100	ug/Kg	85		8		50	122	20
Naphthalene	1300	0	1100	ug/Kg	85		8		51	121	20
4-Chloroaniline	1300	0	550	ug/Kg	42		7		10	100	20
Hexachlorobutadiene	1300	0	1100	ug/Kg	85		8		44	126	20
Caprolactam	1300	0	1300	ug/Kg	100		8		51	134	20
4-Chloro-3-methylphenol	1300	0	1100	ug/Kg	85		8		57	132	20
2-Methylnaphthalene	1300	0	1100	ug/Kg	85		8		59	123	20
Hexachlorocyclopentadiene	2500	0	1600	ug/Kg	64		0		10	175	20
2,4,6-Trichlorophenol	1300	0	1100	ug/Kg	85		8		33	141	20
2,4,5-Trichlorophenol	1300	0	1100	ug/Kg	85		8		38	135	20
1,1-Biphenyl	1300	0	1200	ug/Kg	92		0		55	131	20
2-Chloronaphthalene	1300	0	1100	ug/Kg	85		8		48	124	20
2-Nitroaniline	1300	0	1200	ug/Kg	92		0		47	134	20
Dimethylphthalate	1300	0	1200	ug/Kg	92		8		54	120	20
Acenaphthylene	1300	0	1100	ug/Kg	85		8		57	125	20
2,6-Dinitrotoluene	1300	0	1200	ug/Kg	92		0		48	127	20
3-Nitroaniline	1300	0	720	ug/Kg	55		9		10	112	20
Acenaphthene	1300	0	1200	ug/Kg	92		8		70	121	20
2,4-Dinitrophenol	2500	0	2100	ug/Kg	84		5		10	155	20
4-Nitrophenol	2500	0	1900	ug/Kg	76		10		10	175	20
Dibenzofuran	1300	0	1100	ug/Kg	85		8		52	114	20
2,4-Dinitrotoluene	1300	0	1100	ug/Kg	85		8		41	140	20
Diethylphthalate	1300	0	1200	ug/Kg	92		8		51	119	20
4-Chlorophenyl-phenylether	1300	0	1100	ug/Kg	85		8		48	122	20
Fluorene	1300	70.1	1100	ug/Kg	79		10		53	118	20
4-Nitroaniline	1300	0	1000	ug/Kg	77		18		29	140	20
4,6-Dinitro-2-methylphenol	1300	0	1100	ug/Kg	85		8		10	160	20
N-Nitrosodiphenylamine	1300	0	1300	ug/Kg	100		0		73	118	20
4-Bromophenyl-phenylether	1300	0	1300	ug/Kg	100		0		65	121	20
Hexachlorobenzene	1300	0	1200	ug/Kg	92		0		67	118	20
Atrazine	1300	0	1500	ug/Kg	115		0		45	175	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2484 **Analytical Method:** SW8270E

Client: CDM Smith **DataFile:** BF142983.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	2500	0	2300	ug/Kg	92		0		13	153	20
Phenanthrene	1300	420	1400	ug/Kg	75		10		52	128	20
Anthracene	1300	64.9	1200	ug/Kg	87		0		62	124	20
Carbazole	1300	56.1	1200	ug/Kg	88		0		59	119	20
Di-n-butylphthalate	1300	0	1400	ug/Kg	108		6		55	125	20
Fluoranthene	1300	1200	2000	ug/Kg	62		11		44	125	20
Pyrene	1300	680	1400	ug/Kg	55		0		37	122	20
Butylbenzylphthalate	1300	0	1200	ug/Kg	92		8		44	135	20
3,3-Dichlorobenzidine	1300	0	750	ug/Kg	58		2		15	112	20
Benzo(a)anthracene	1300	390	1500	ug/Kg	85		0		53	119	20
Chrysene	1300	500	1500	ug/Kg	77		10		57	121	20
bis(2-Ethylhexyl)phthalate	1300	0	1200	ug/Kg	92		8		42	169	20
Di-n-octyl phthalate	1300	0	1100	ug/Kg	85		0		51	156	20
Benzo(b)fluoranthene	1300	660	1800	ug/Kg	88		0		52	117	20
Benzo(k)fluoranthene	1300	210	1600	ug/Kg	107		0		57	134	20
Benzo(a)pyrene	1300	310	1400	ug/Kg	84		9		70	142	20
Indeno(1,2,3-cd)pyrene	1300	100	860	ug/Kg	58		5		40	129	20
Dibenz(a,h)anthracene	1300	0	800	ug/Kg	62		5		43	123	20
Benzo(g,h,i)perylene	1300	120	820	ug/Kg	54		4		24	125	20
1,2,4,5-Tetrachlorobenzene	1300	0	1200	ug/Kg	92		0		52	134	20
1,4-Dioxane	1300	0	900	ug/Kg	69		1		46	112	20
2,3,4,6-Tetrachlorophenol	1300	0	1000	ug/Kg	77		10		24	146	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2484 **Analytical Method:** 8270E

Client: CDM Smith **DataFile:** BF142989.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168694BS	Benzaldehyde	1700	920	ug/Kg	54				10	133	
	Phenol	1700	1400	ug/Kg	82				62	112	
	bis(2-Chloroethyl)ether	1700	1400	ug/Kg	82				60	101	
	2-Chlorophenol	1700	1400	ug/Kg	82				65	112	
	2-Methylphenol	1700	1400	ug/Kg	82				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1400	ug/Kg	82				51	100	
	Acetophenone	1700	1500	ug/Kg	88				66	98	
	3+4-Methylphenols	1700	1400	ug/Kg	82				58	111	
	N-Nitroso-di-n-propylamine	1700	1400	ug/Kg	82				63	95	
	Hexachloroethane	1700	1500	ug/Kg	88				72	108	
	Nitrobenzene	1700	1500	ug/Kg	88				57	101	
	Isophorone	1700	1400	ug/Kg	82				59	99	
	2-Nitrophenol	1700	1500	ug/Kg	88				61	111	
	2,4-Dimethylphenol	1700	1400	ug/Kg	82				46	141	
	bis(2-Chloroethoxy)methane	1700	1500	ug/Kg	88				66	97	
	2,4-Dichlorophenol	1700	1500	ug/Kg	88				62	107	
	Naphthalene	1700	1500	ug/Kg	88				62	100	
	4-Chloroaniline	1700	980	ug/Kg	58				16	100	
	Hexachlorobutadiene	1700	1500	ug/Kg	88				53	98	
	Caprolactam	1700	1500	ug/Kg	88				67	110	
	4-Chloro-3-methylphenol	1700	1400	ug/Kg	82				58	112	
	2-Methylnaphthalene	1700	1500	ug/Kg	88				60	104	
	Hexachlorocyclopentadiene	3300	2900	ug/Kg	88				45	165	
	2,4,6-Trichlorophenol	1700	1500	ug/Kg	88				59	102	
	2,4,5-Trichlorophenol	1700	1500	ug/Kg	88				61	98	
	1,1-Biphenyl	1700	1500	ug/Kg	88				57	103	
	2-Chloronaphthalene	1700	1500	ug/Kg	88				58	99	
	2-Nitroaniline	1700	1400	ug/Kg	82				66	101	
	Dimethylphthalate	1700	1500	ug/Kg	88				61	99	
	Acenaphthylene	1700	1500	ug/Kg	88				63	101	
	2,6-Dinitrotoluene	1700	1500	ug/Kg	88				61	104	
	3-Nitroaniline	1700	1000	ug/Kg	59				28	100	
	Acenaphthene	1700	1600	ug/Kg	94				57	104	
	2,4-Dinitrophenol	3300	2800	ug/Kg	85				37	128	
	4-Nitrophenol	3300	2600	ug/Kg	79				48	119	
	Dibenzofuran	1700	1500	ug/Kg	88				63	99	
	2,4-Dinitrotoluene	1700	1500	ug/Kg	88				60	106	
	Diethylphthalate	1700	1500	ug/Kg	88				60	101	
	4-Chlorophenyl-phenylether	1700	1500	ug/Kg	88				58	98	
	Fluorene	1700	1500	ug/Kg	88				61	101	
	4-Nitroaniline	1700	1400	ug/Kg	82				64	103	
	4,6-Dinitro-2-methylphenol	1700	1500	ug/Kg	88				76	113	
	N-Nitrosodiphenylamine	1700	1600	ug/Kg	94				71	99	
	4-Bromophenyl-phenylether	1700	1600	ug/Kg	94				66	102	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2484 **Analytical Method:** 8270E

Client: CDM Smith **DataFile:** BF142989.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168694BS	Hexachlorobenzene	1700	1600	ug/Kg	94				64	98	
	Atrazine	1700	1800	ug/Kg	106				47	152	
	Pentachlorophenol	3300	2900	ug/Kg	88				67	105	
	Phenanthrene	1700	1500	ug/Kg	88				59	103	
	Anthracene	1700	1500	ug/Kg	88				61	105	
	Carbazole	1700	1500	ug/Kg	88				61	99	
	Di-n-butylphthalate	1700	1700	ug/Kg	100				58	104	
	Fluoranthene	1700	1500	ug/Kg	88				57	107	
	Pyrene	1700	1200	ug/Kg	71				59	103	
	Butylbenzylphthalate	1700	1800	ug/Kg	106		*		55	103	
	3,3-Dichlorobenzidine	1700	1000	ug/Kg	59				42	91	
	Benzo(a)anthracene	1700	1500	ug/Kg	88				60	102	
	Chrysene	1700	1500	ug/Kg	88				59	101	
	bis(2-Ethylhexyl)phthalate	1700	1800	ug/Kg	106				54	135	
	Di-n-octyl phthalate	1700	1700	ug/Kg	100				52	137	
	Benzo(b)fluoranthene	1700	1700	ug/Kg	100				62	109	
	Benzo(k)fluoranthene	1700	1400	ug/Kg	82				62	109	
	Benzo(a)pyrene	1700	1600	ug/Kg	94				63	103	
	Indeno(1,2,3-cd)pyrene	1700	1400	ug/Kg	82				63	101	
	Dibenz(a,h)anthracene	1700	1400	ug/Kg	82				61	112	
	Benzo(g,h,i)perylene	1700	1400	ug/Kg	82				70	108	
	1,2,4,5-Tetrachlorobenzene	1700	1500	ug/Kg	88				53	101	
	1,4-Dioxane	1700	1100	ug/Kg	65				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1400	ug/Kg	82				59	108	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID: PB168694BL

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2484

Lab File ID: BF142988.D | Lab Sample ID: PB168694BL

Instrument ID: BNA_F | Date Extracted: 07/02/2025

Matrix: (soil/water) SOIL | Date Analyzed: 07/03/2025

Level: (low/med) LOW | Time Analyzed: 10:26

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168694BS	PB168694BS	BF142989.D	07/03/2025
TP-57	Q2484-02	BF142995.D	07/03/2025
TP-107	Q2484-04	BF143000.D	07/03/2025
TP-104	Q2484-06	BF142996.D	07/03/2025
TP-106	Q2484-05	BF142997.D	07/03/2025
TP-58	Q2484-01	BF143018.D	07/07/2025
TP-64	Q2484-03	BF143021.D	07/07/2025
SOIL-PILEMS	Q2475-01MS	BF142982.D	07/02/2025
SOIL-PILEMSD	Q2475-01MSD	BF142983.D	07/02/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2484

Lab File ID: BF142787.D DFTPP Injection Date: 06/19/2025

Instrument ID: BNA_F DFTPP Injection Time: 16:37

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.9
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	30.9
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	41.6
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.8
275	10.0 - 60.0% of mass 198	24.9
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	15
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.1 (19.1) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF142788.D	06/19/2025	17:07
SSTDICC005	SSTDICC005	BF142789.D	06/19/2025	17:38
SSTDICC010	SSTDICC010	BF142790.D	06/19/2025	18:08
SSTDICC020	SSTDICC020	BF142791.D	06/19/2025	18:39
SSTDICCC040	SSTDICCC040	BF142792.D	06/19/2025	19:09
SSTDICC050	SSTDICC050	BF142793.D	06/19/2025	19:40
SSTDICC060	SSTDICC060	BF142794.D	06/19/2025	20:10
SSTDICC080	SSTDICC080	BF142795.D	06/19/2025	20:40

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2484

Lab File ID: BF142963.D | DFTPP Injection Date: 07/02/2025

Instrument ID: BNA_F | DFTPP Injection Time: 11:11

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	29.2
68	Less than 2.0% of mass 69	0.5 (1.9) 1
69	Mass 69 relative abundance	28.3
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	38.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.6
275	10.0 - 60.0% of mass 198	24.9
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	15.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.9 (18.9) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF142964.D	07/02/2025	11:41
SOIL-PILEMS	Q2475-01MS	BF142982.D	07/02/2025	20:52
SOIL-PILEMSD	Q2475-01MSD	BF142983.D	07/02/2025	21:22

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2484

Lab File ID: BF142986.D | DFTPP Injection Date: 07/03/2025

Instrument ID: BNA_F | DFTPP Injection Time: 09:25

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	30.1
68	Less than 2.0% of mass 69	0.5 (1.8) 1
69	Mass 69 relative abundance	28.4
70	Less than 2.0% of mass 69	0.1 (0.3) 1
127	10.0 - 80.0% of mass 198	39
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.4
275	10.0 - 60.0% of mass 198	24.2
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	15.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.8 (18.8) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF142987.D	07/03/2025	09:55
PB168694BL	PB168694BL	BF142988.D	07/03/2025	10:26
PB168694BS	PB168694BS	BF142989.D	07/03/2025	10:55
TP-57	Q2484-02	BF142995.D	07/03/2025	14:25
TP-104	Q2484-06	BF142996.D	07/03/2025	14:56
TP-106	Q2484-05	BF142997.D	07/03/2025	15:27
TP-107	Q2484-04	BF143000.D	07/03/2025	16:59

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2484

Lab File ID: BF143002.D DFTPP Injection Date: 07/07/2025

Instrument ID: BNA_F DFTPP Injection Time: 11:12

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	32.2
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	29.4
70	Less than 2.0% of mass 69	0.0 (0.0) 1
127	10.0 - 80.0% of mass 198	42.4
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6
275	10.0 - 60.0% of mass 198	25.1
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	15.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19 (19) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF143003.D	07/07/2025	12:12
TP-58	Q2484-01	BF143018.D	07/07/2025	19:51
TP-64	Q2484-03	BF143021.D	07/07/2025	21:22

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2484

Lab File ID: BF143024.D | DFTPP Injection Date: 07/08/2025

Instrument ID: BNA_F | DFTPP Injection Time: 10:24

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.6
68	Less than 2.0% of mass 69	0.6 (2) 1
69	Mass 69 relative abundance	32.1
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	44.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6
275	10.0 - 60.0% of mass 198	25.6
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	15.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.8 (18.8) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF143025.D	07/08/2025	10:54
TP-58DL	Q2484-01DL	BF143042.D	07/08/2025	19:41

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2484

Client ID : SSTDCCC040 Date Analyzed: 07/02/2025

Lab File ID: BF142964.D Time Analyzed: 11:41

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	58835	6.875	223613	8.16	116653	9.92
	UPPER LIMIT	117670	7.375	447226	8.657	233306	10.416
	LOWER LIMIT	29417.5	6.375	111807	7.657	58326.5	9.416
	EPA SAMPLE NO.						
01	SOIL-PILEMS	59177	6.88	222831	8.16	115354	9.92
02	SOIL-PILEMSD	59335	6.88	228314	8.16	114108	9.92

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2484

Client ID: SSTDCCC040 Date Analyzed: 07/02/2025

Lab File ID: BF142964.D Time Analyzed: 11:41

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	194796	11.404	118183	14.051	123997	15.545
	UPPER LIMIT	389592	11.904	236366	14.551	247994	16.045
	LOWER LIMIT	97398	10.904	59091.5	13.551	61998.5	15.045
	EPA SAMPLE NO.						
01	SOIL-PILEMS	168872	11.40	125535	14.06	103117	15.55
02	SOIL-PILEMSD	156089	11.40	121729	14.05	97715	15.55

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2484

Client ID : SSTDCCC040 Date Analyzed: 07/03/2025

Lab File ID: BF142987.D Time Analyzed: 09:55

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	62161	6.875	229765	8.16	116751	9.92
	UPPER LIMIT	124322	7.375	459530	8.657	233502	10.416
	LOWER LIMIT	31080.5	6.375	114883	7.657	58375.5	9.416
	EPA SAMPLE NO.						
01	TP-107	72090	6.88	273008	8.16	142530	9.91
02	TP-106	73257	6.88	282718	8.16	149800	9.91
03	TP-104	71564	6.88	274705	8.16	149203	9.91
04	PB168694BL	74523	6.88	286767	8.16	155660	9.92
05	PB168694BS	59015	6.88	219896	8.16	110519	9.92
06	TP-57	70834	6.88	271831	8.16	145167	9.92

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2484

Client ID: SSTDCCC040 Date Analyzed: 07/03/2025

Lab File ID: BF142987.D Time Analyzed: 09:55

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	185461	11.404	107728	14.051	131364	15.545
	UPPER LIMIT	370922	11.904	215456	14.551	262728	16.045
	LOWER LIMIT	92730.5	10.904	53864	13.551	65682	15.045
	EPA SAMPLE NO.						
01	TP-107	220931	11.40	143481	14.05	173151	15.54
02	TP-106	249447	11.40	144108	14.05	179957	15.54
03	TP-104	257344	11.40	143815	14.05	171301	15.54
04	PB168694BL	262266	11.40	143100	14.05	155357	15.55
05	PB168694BS	169244	11.41	114618	14.06	135774	15.55
06	TP-57	247026	11.40	137001	14.05	171675	15.55

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2484

Client ID : SSTDCCC040 Date Analyzed: 07/07/2025

Lab File ID: BF143003.D Time Analyzed: 12:12

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	66299	6.875	250576	8.16	128386	9.92
	UPPER LIMIT	132598	7.375	501152	8.663	256772	10.422
	LOWER LIMIT	33149.5	6.375	125288	7.663	64193	9.422
	EPA SAMPLE NO.						
01	TP-58	47809	6.88	165637	8.16	87479	9.92
02	TP-64	45344	6.88	158652	8.16	77572	9.92

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2484

Client ID: SSTDCCC040 Date Analyzed: 07/07/2025

Lab File ID: BF143003.D Time Analyzed: 12:12

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	196682	11.41	115356	14.057	146144	15.551
	UPPER LIMIT	393364	11.91	230712	14.557	292288	16.051
	LOWER LIMIT	98341	10.91	57678	13.557	73072	15.051
	EPA SAMPLE NO.						
01	TP-58	153411	11.41	121305	14.07	91137	15.56
02	TP-64	140588	11.40	110239	14.06	80889	15.56

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2484

Client ID : SSTDCCC040 Date Analyzed: 07/08/2025

Lab File ID: BF143025.D Time Analyzed: 10:54

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	66813	6.875	257725	8.16	136330	9.92
	UPPER LIMIT	133626	7.375	515450	8.663	272660	10.422
	LOWER LIMIT	33406.5	6.375	128863	7.663	68165	9.422
	EPA SAMPLE NO.						
01	TP-58DL	55124	6.87	205762	8.16	101508	9.92

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2484

Client ID: SSTDCCC040 Date Analyzed: 07/08/2025

Lab File ID: BF143025.D Time Analyzed: 10:54

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	218169	11.41	109391	14.063	135350	15.557
	UPPER LIMIT	436338	11.91	218782	14.563	270700	16.057
	LOWER LIMIT	109085	10.91	54695.5	13.563	67675	15.057
	EPA SAMPLE NO.						
01	TP-58DL	147948	11.40	119601	14.05	141551	15.55

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168694BL	SDG No.:	Q2484
Lab Sample ID:	PB168694BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142988.D	1	07/02/25 08:55	07/03/25 10:26	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	160	U	160	330	ug/Kg
108-95-2	Phenol	22.1	U	22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	24.3	U	24.3	170	ug/Kg
95-57-8	2-Chlorophenol	24.4	U	24.4	170	ug/Kg
95-48-7	2-Methylphenol	29.9	U	29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	37.5	U	37.5	170	ug/Kg
98-86-2	Acetophenone	29.5	U	29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	41.1	U	41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	47.4	U	47.4	80.0	ug/Kg
67-72-1	Hexachloroethane	17.6	U	17.6	170	ug/Kg
98-95-3	Nitrobenzene	18.3	U	18.3	170	ug/Kg
78-59-1	Isophorone	32.8	U	32.8	170	ug/Kg
88-75-5	2-Nitrophenol	58.2	U	58.2	170	ug/Kg
105-67-9	2,4-Dimethylphenol	64.8	U	64.8	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	30.8	U	30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	28.3	U	28.3	170	ug/Kg
91-20-3	Naphthalene	22.7	U	22.7	170	ug/Kg
106-47-8	4-Chloroaniline	35.4	U	35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	25.3	U	25.3	170	ug/Kg
105-60-2	Caprolactam	52.1	U	52.1	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	28.7	U	28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	25.6	U	25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	120	U	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	19.8	U	19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	29.1	U	29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	21.8	U	21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	22.5	U	22.5	170	ug/Kg
88-74-4	2-Nitroaniline	48.1	U	48.1	170	ug/Kg
131-11-3	Dimethylphthalate	27.1	U	27.1	170	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	
Project:	South River WM Replacement			Date Received:	
Client Sample ID:	PB168694BL			SDG No.:	Q2484
Lab Sample ID:	PB168694BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142988.D	1	07/02/25 08:55	07/03/25 10:26	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	28.9	U	28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	33.6	U	33.6	170	ug/Kg
99-09-2	3-Nitroaniline	46.0	U	46.0	170	ug/Kg
83-32-9	Acenaphthene	21.3	U	21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	230	U	230	330	ug/Kg
100-02-7	4-Nitrophenol	110	U	110	330	ug/Kg
132-64-9	Dibenzofuran	22.7	U	22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	50.1	U	50.1	170	ug/Kg
84-66-2	Diethylphthalate	28.3	U	28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	26.7	U	26.7	170	ug/Kg
86-73-7	Fluorene	25.3	U	25.3	170	ug/Kg
100-01-6	4-Nitroaniline	64.2	U	64.2	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	100	U	100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	32.9	U	32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	27.8	U	27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	25.3	U	25.3	170	ug/Kg
1912-24-9	Atrazine	34.0	U	34.0	170	ug/Kg
87-86-5	Pentachlorophenol	51.3	U	51.3	330	ug/Kg
85-01-8	Phenanthrene	20.9	U	20.9	170	ug/Kg
120-12-7	Anthracene	33.3	U	33.3	170	ug/Kg
86-74-8	Carbazole	31.2	U	31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	47.9	U	47.9	170	ug/Kg
206-44-0	Fluoranthene	30.0	U	30.0	170	ug/Kg
129-00-0	Pyrene	36.0	U	36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	71.4	U	71.4	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	36.7	U	36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	23.0	U	23.0	170	ug/Kg
218-01-9	Chrysene	19.9	U	19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	59.2	U	59.2	170	ug/Kg
117-84-0	Di-n-octyl phthalate	86.8	U	86.8	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	19.0	U	19.0	170	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	
Project:	South River WM Replacement			Date Received:	
Client Sample ID:	PB168694BL			SDG No.:	Q2484
Lab Sample ID:	PB168694BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142988.D	1	07/02/25 08:55	07/03/25 10:26	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	22.4	U	22.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	29.5	U	29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	29.1	U	29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	27.4	U	27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	25.7	U	25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	25.6	U	25.6	170	ug/Kg
123-91-1	1,4-Dioxane	45.2	U	45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	27.4	U	27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	121		18 - 112	81%	SPK: 150
13127-88-3	Phenol-d6	119		15 - 107	80%	SPK: 150
4165-60-0	Nitrobenzene-d5	76.7		18 - 107	77%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.5		20 - 109	76%	SPK: 100
118-79-6	2,4,6-Tribromophenol	124		10 - 116	82%	SPK: 150
1718-51-0	Terphenyl-d14	76.8		10 - 105	77%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	74500	6.875			
1146-65-2	Naphthalene-d8	287000	8.157			
15067-26-2	Acenaphthene-d10	156000	9.916			
1517-22-2	Phenanthrene-d10	262000	11.404			
1719-03-5	Chrysene-d12	143000	14.051			
1520-96-3	Perylene-d12	155000	15.545			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	300	A		5.11	ug/Kg
006311-48-4	(1,1-Biphenyl)-4,4-diamine, N,N	390	J		17.2	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	
Project:	South River WM Replacement			Date Received:	
Client Sample ID:	PB168694BL			SDG No.:	Q2484
Lab Sample ID:	PB168694BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142988.D	1	07/02/25 08:55	07/03/25 10:26	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168694BS	SDG No.:	Q2484
Lab Sample ID:	PB168694BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142989.D	1	07/02/25 08:55	07/03/25 10:55	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	920		160	330	ug/Kg
108-95-2	Phenol	1400		22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1400		24.3	170	ug/Kg
95-57-8	2-Chlorophenol	1400		24.4	170	ug/Kg
95-48-7	2-Methylphenol	1400		29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1400		37.5	170	ug/Kg
98-86-2	Acetophenone	1500		29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	1400		41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		47.4	79.9	ug/Kg
67-72-1	Hexachloroethane	1500		17.6	170	ug/Kg
98-95-3	Nitrobenzene	1500		18.3	170	ug/Kg
78-59-1	Isophorone	1400		32.8	170	ug/Kg
88-75-5	2-Nitrophenol	1500		58.1	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1400		64.7	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1500		28.3	170	ug/Kg
91-20-3	Naphthalene	1500		22.7	170	ug/Kg
106-47-8	4-Chloroaniline	980		35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	1500		25.3	170	ug/Kg
105-60-2	Caprolactam	1500		52.0	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1400		28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	1500		25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	2900	E	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1500		19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1500		29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	1500		22.5	170	ug/Kg
88-74-4	2-Nitroaniline	1400		48.1	170	ug/Kg
131-11-3	Dimethylphthalate	1500		27.1	170	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168694BS	SDG No.:	Q2484
Lab Sample ID:	PB168694BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142989.D	1	07/02/25 08:55	07/03/25 10:55	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1500		28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1500		33.6	170	ug/Kg
99-09-2	3-Nitroaniline	1000		46.0	170	ug/Kg
83-32-9	Acenaphthene	1600		21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	2800	E	230	330	ug/Kg
100-02-7	4-Nitrophenol	2600		110	330	ug/Kg
132-64-9	Dibenzofuran	1500		22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1500		50.0	170	ug/Kg
84-66-2	Diethylphthalate	1500		28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1500		26.7	170	ug/Kg
86-73-7	Fluorene	1500		25.3	170	ug/Kg
100-01-6	4-Nitroaniline	1400		64.1	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1500		100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1600		32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1600		27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1600		25.3	170	ug/Kg
1912-24-9	Atrazine	1800		34.0	170	ug/Kg
87-86-5	Pentachlorophenol	2900	E	51.2	330	ug/Kg
85-01-8	Phenanthrene	1500		20.9	170	ug/Kg
120-12-7	Anthracene	1500		33.3	170	ug/Kg
86-74-8	Carbazole	1500		31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1700		47.9	170	ug/Kg
206-44-0	Fluoranthene	1500		30.0	170	ug/Kg
129-00-0	Pyrene	1200		36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1800		71.3	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1000		36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	1500		23.0	170	ug/Kg
218-01-9	Chrysene	1500		19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1800		59.1	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1700		86.7	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		19.0	170	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168694BS	SDG No.:	Q2484
Lab Sample ID:	PB168694BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142989.D	1	07/02/25 08:55	07/03/25 10:55	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1400		22.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	1600		29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1400		29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1400		27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1400		25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1500		25.6	170	ug/Kg
123-91-1	1,4-Dioxane	1100		45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1400		27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	119		18 - 112	80%	SPK: 150
13127-88-3	Phenol-d6	117		15 - 107	78%	SPK: 150
4165-60-0	Nitrobenzene-d5	76.6		18 - 107	77%	SPK: 100
321-60-8	2-Fluorobiphenyl	79.8		20 - 109	80%	SPK: 100
118-79-6	2,4,6-Tribromophenol	122		10 - 116	81%	SPK: 150
1718-51-0	Terphenyl-d14	67.7		10 - 105	68%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	59000	6.875			
1146-65-2	Naphthalene-d8	220000	8.157			
15067-26-2	Acenaphthene-d10	111000	9.916			
1517-22-2	Phenanthrene-d10	169000	11.41			
1719-03-5	Chrysene-d12	115000	14.057			
1520-96-3	Perylene-d12	136000	15.551			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	SOIL-PILEMS	SDG No.:	Q2484
Lab Sample ID:	Q2475-01MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	79.7
Sample Wt/Vol:	50.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142982.D	1	07/02/25 08:55	07/02/25 20:52	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1300		120	250	ug/Kg
108-95-2	Phenol	1100		16.6	130	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1100		18.3	130	ug/Kg
95-57-8	2-Chlorophenol	1100		18.3	130	ug/Kg
95-48-7	2-Methylphenol	1200		22.5	130	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1100		28.2	130	ug/Kg
98-86-2	Acetophenone	1200		22.2	130	ug/Kg
65794-96-9	3+4-Methylphenols	1200		30.9	250	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1100		35.6	60.1	ug/Kg
67-72-1	Hexachloroethane	1100		13.2	130	ug/Kg
98-95-3	Nitrobenzene	1100		13.8	130	ug/Kg
78-59-1	Isophorone	1200		24.7	130	ug/Kg
88-75-5	2-Nitrophenol	1200		43.8	130	ug/Kg
105-67-9	2,4-Dimethylphenol	1100		48.7	130	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1200		23.2	130	ug/Kg
120-83-2	2,4-Dichlorophenol	1200		21.3	130	ug/Kg
91-20-3	Naphthalene	1200		17.1	130	ug/Kg
106-47-8	4-Chloroaniline	590		26.6	130	ug/Kg
87-68-3	Hexachlorobutadiene	1200		19.0	130	ug/Kg
105-60-2	Caprolactam	1400		39.2	250	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1200		21.6	130	ug/Kg
91-57-6	2-Methylnaphthalene	1200		19.2	130	ug/Kg
77-47-4	Hexachlorocyclopentadiene	1600		87.2	250	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1200		14.9	130	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1200		21.9	130	ug/Kg
92-52-4	1,1-Biphenyl	1200		16.4	130	ug/Kg
91-58-7	2-Chloronaphthalene	1200		16.9	130	ug/Kg
88-74-4	2-Nitroaniline	1200		36.2	130	ug/Kg
131-11-3	Dimethylphthalate	1300		20.4	130	ug/Kg

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	SOIL-PILEMS	SDG No.:	Q2484
Lab Sample ID:	Q2475-01MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	79.7
Sample Wt/Vol:	50.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142982.D	1	07/02/25 08:55	07/02/25 20:52	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1200		21.7	130	ug/Kg
606-20-2	2,6-Dinitrotoluene	1200		25.3	130	ug/Kg
99-09-2	3-Nitroaniline	780		34.6	130	ug/Kg
83-32-9	Acenaphthene	1300		16.0	130	ug/Kg
51-28-5	2,4-Dinitrophenol	2200	E	170	250	ug/Kg
100-02-7	4-Nitrophenol	2100	E	80.4	250	ug/Kg
132-64-9	Dibenzofuran	1200		17.1	130	ug/Kg
121-14-2	2,4-Dinitrotoluene	1200		37.7	130	ug/Kg
84-66-2	Diethylphthalate	1300		21.3	130	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1200		20.1	130	ug/Kg
86-73-7	Fluorene	1200		19.0	130	ug/Kg
100-01-6	4-Nitroaniline	1200		48.3	130	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1200		77.4	250	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1300		24.7	130	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1300		20.9	130	ug/Kg
118-74-1	Hexachlorobenzene	1200		19.0	130	ug/Kg
1912-24-9	Atrazine	1500		25.6	130	ug/Kg
87-86-5	Pentachlorophenol	2300	E	38.6	250	ug/Kg
85-01-8	Phenanthrene	1500		15.7	130	ug/Kg
120-12-7	Anthracene	1200		25.0	130	ug/Kg
86-74-8	Carbazole	1200		23.5	130	ug/Kg
84-74-2	Di-n-butylphthalate	1500		36.0	130	ug/Kg
206-44-0	Fluoranthene	2100	E	22.6	130	ug/Kg
129-00-0	Pyrene	1400		27.1	130	ug/Kg
85-68-7	Butylbenzylphthalate	1300		53.7	130	ug/Kg
91-94-1	3,3-Dichlorobenzidine	740		27.6	250	ug/Kg
56-55-3	Benzo(a)anthracene	1500		17.3	130	ug/Kg
218-01-9	Chrysene	1600		15.0	130	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1300		44.5	130	ug/Kg
117-84-0	Di-n-octyl phthalate	1100		65.3	250	ug/Kg
205-99-2	Benzo(b)fluoranthene	1800		14.3	130	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	SOIL-PILEMS	SDG No.:	Q2484
Lab Sample ID:	Q2475-01MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	79.7
Sample Wt/Vol:	50.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142982.D	1	07/02/25 08:55	07/02/25 20:52	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1600		16.8	130	ug/Kg
50-32-8	Benzo(a)pyrene	1500		22.2	130	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	890		21.9	130	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	840		20.6	130	ug/Kg
191-24-2	Benzo(g,h,i)perylene	850		19.3	130	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1200		19.2	130	ug/Kg
123-91-1	1,4-Dioxane	890		34.0	130	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1100		20.6	130	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	70.7		18 - 112	47%	SPK: 150
13127-88-3	Phenol-d6	74.0		15 - 107	49%	SPK: 150
4165-60-0	Nitrobenzene-d5	46.8		18 - 107	47%	SPK: 100
321-60-8	2-Fluorobiphenyl	43.0		20 - 109	43%	SPK: 100
118-79-6	2,4,6-Tribromophenol	67.8		10 - 116	45%	SPK: 150
1718-51-0	Terphenyl-d14	33.5		10 - 105	33%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	59200	6.875			
1146-65-2	Naphthalene-d8	223000	8.157			
15067-26-2	Acenaphthene-d10	115000	9.916			
1517-22-2	Phenanthrene-d10	169000	11.404			
1719-03-5	Chrysene-d12	126000	14.057			
1520-96-3	Perylene-d12	103000	15.545			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	SOIL-PILEMSD	SDG No.:	Q2484
Lab Sample ID:	Q2475-01MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	79.7
Sample Wt/Vol:	50.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142983.D	1	07/02/25 08:55	07/02/25 21:22	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1200		120	250	ug/Kg
108-95-2	Phenol	1100		16.6	130	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1100		18.3	130	ug/Kg
95-57-8	2-Chlorophenol	1100		18.4	130	ug/Kg
95-48-7	2-Methylphenol	1100		22.5	130	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1000		28.2	130	ug/Kg
98-86-2	Acetophenone	1100		22.2	130	ug/Kg
65794-96-9	3+4-Methylphenols	1200		30.9	250	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1100		35.6	60.2	ug/Kg
67-72-1	Hexachloroethane	1100		13.2	130	ug/Kg
98-95-3	Nitrobenzene	1100		13.8	130	ug/Kg
78-59-1	Isophorone	1100		24.7	130	ug/Kg
88-75-5	2-Nitrophenol	1200		43.8	130	ug/Kg
105-67-9	2,4-Dimethylphenol	1100		48.7	130	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1100		23.2	130	ug/Kg
120-83-2	2,4-Dichlorophenol	1100		21.3	130	ug/Kg
91-20-3	Naphthalene	1100		17.1	130	ug/Kg
106-47-8	4-Chloroaniline	550		26.6	130	ug/Kg
87-68-3	Hexachlorobutadiene	1100		19.0	130	ug/Kg
105-60-2	Caprolactam	1300		39.2	250	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1100		21.6	130	ug/Kg
91-57-6	2-Methylnaphthalene	1100		19.3	130	ug/Kg
77-47-4	Hexachlorocyclopentadiene	1600		87.2	250	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1100		14.9	130	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1100		21.9	130	ug/Kg
92-52-4	1,1-Biphenyl	1200		16.4	130	ug/Kg
91-58-7	2-Chloronaphthalene	1100		16.9	130	ug/Kg
88-74-4	2-Nitroaniline	1200		36.2	130	ug/Kg
131-11-3	Dimethylphthalate	1200		20.4	130	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	SOIL-PILEMSD	SDG No.:	Q2484
Lab Sample ID:	Q2475-01MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	79.7
Sample Wt/Vol:	50.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142983.D	1	07/02/25 08:55	07/02/25 21:22	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1100		21.7	130	ug/Kg
606-20-2	2,6-Dinitrotoluene	1200		25.3	130	ug/Kg
99-09-2	3-Nitroaniline	720		34.6	130	ug/Kg
83-32-9	Acenaphthene	1200		16.0	130	ug/Kg
51-28-5	2,4-Dinitrophenol	2100	E	170	250	ug/Kg
100-02-7	4-Nitrophenol	1900		80.5	250	ug/Kg
132-64-9	Dibenzofuran	1100		17.1	130	ug/Kg
121-14-2	2,4-Dinitrotoluene	1100		37.7	130	ug/Kg
84-66-2	Diethylphthalate	1200		21.3	130	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1100		20.1	130	ug/Kg
86-73-7	Fluorene	1100		19.0	130	ug/Kg
100-01-6	4-Nitroaniline	1000		48.3	130	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1100		77.5	250	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1300		24.7	130	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1300		20.9	130	ug/Kg
118-74-1	Hexachlorobenzene	1200		19.0	130	ug/Kg
1912-24-9	Atrazine	1500		25.6	130	ug/Kg
87-86-5	Pentachlorophenol	2300	E	38.6	250	ug/Kg
85-01-8	Phenanthrene	1400		15.7	130	ug/Kg
120-12-7	Anthracene	1200		25.0	130	ug/Kg
86-74-8	Carbazole	1200		23.5	130	ug/Kg
84-74-2	Di-n-butylphthalate	1400		36.0	130	ug/Kg
206-44-0	Fluoranthene	2000	E	22.6	130	ug/Kg
129-00-0	Pyrene	1400		27.1	130	ug/Kg
85-68-7	Butylbenzylphthalate	1200		53.7	130	ug/Kg
91-94-1	3,3-Dichlorobenzidine	750		27.6	250	ug/Kg
56-55-3	Benzo(a)anthracene	1500		17.3	130	ug/Kg
218-01-9	Chrysene	1500		15.0	130	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1200		44.5	130	ug/Kg
117-84-0	Di-n-octyl phthalate	1100		65.3	250	ug/Kg
205-99-2	Benzo(b)fluoranthene	1800		14.3	130	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	SOIL-PILEMSD	SDG No.:	Q2484
Lab Sample ID:	Q2475-01MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	79.7
Sample Wt/Vol:	50.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142983.D	1	07/02/25 08:55	07/02/25 21:22	PB168694

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1600		16.8	130	ug/Kg
50-32-8	Benzo(a)pyrene	1400		22.2	130	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	860		21.9	130	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	800		20.6	130	ug/Kg
191-24-2	Benzo(g,h,i)perylene	820		19.3	130	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1200		19.3	130	ug/Kg
123-91-1	1,4-Dioxane	900		34.0	130	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1000		20.6	130	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	70.0		18 - 112	47%	SPK: 150
13127-88-3	Phenol-d6	73.3		15 - 107	49%	SPK: 150
4165-60-0	Nitrobenzene-d5	44.8		18 - 107	45%	SPK: 100
321-60-8	2-Fluorobiphenyl	42.0		20 - 109	42%	SPK: 100
118-79-6	2,4,6-Tribromophenol	61.7		10 - 116	41%	SPK: 150
1718-51-0	Terphenyl-d14	31.4		10 - 105	31%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	59300	6.875			
1146-65-2	Naphthalene-d8	228000	8.157			
15067-26-2	Acenaphthene-d10	114000	9.916			
1517-22-2	Phenanthrene-d10	156000	11.404			
1719-03-5	Chrysene-d12	122000	14.051			
1520-96-3	Perylene-d12	97700	15.545			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF061925.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jun 20 05:06:14 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF142788.D 5 =BF142789.D 10 =BF142790.D 20 =BF142791.D 40 =BF142792.D 50 =BF142793.D 60 =BF142794.D 80 =BF1427
95.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.479	0.499	0.471	0.461	0.509	0.479	0.467	0.480	3.60
3)		Pyridine		1.190	1.195	1.190	1.164	1.303	1.209	1.181	1.205	3.78
4)		n-Nitrosodimet...			0.610	0.617	0.596	0.668	0.632	0.614	0.623	3.98
5)	S	2-Fluorophenol		2.475	2.460	2.460	2.299	2.525	2.342	2.256	2.403	4.26
6)		Aniline		1.951	1.944	1.891	1.818	1.982	1.869	1.746	1.886	4.41
7)	S	Phenol-d6		3.024	2.962	2.846	2.681	2.959	2.760	2.610	2.834	5.53
8)		2-Chlorophenol		1.362	1.303	1.292	1.245	1.366	1.272	1.231	1.296	4.08
9)		Benzaldehyde			0.988	0.943	0.757	0.832	0.684		0.841	15.02
10)	C	Phenol		1.648	1.653	1.591	1.516	1.651	1.530	1.437	1.575	5.31
11)		bis(2-Chloroet...		1.167	1.133	1.134	1.072	1.183	1.116	1.077	1.126	3.71
12)		1,3-Dichlorobe...		1.536	1.499	1.470	1.377	1.500	1.414	1.348	1.449	4.85
13)	C	1,4-Dichlorobe...		1.563	1.496	1.472	1.409	1.523	1.425	1.347	1.462	5.04
14)		1,2-Dichlorobe...		1.458	1.422	1.409	1.331	1.451	1.353	1.284	1.387	4.72
15)		Benzyl Alcohol			1.023	1.025	0.976	1.106	1.032	0.985	1.025	4.51
16)		2,2'-oxybis(1-...		1.975	1.869	1.815	1.723	1.879	1.758	1.644	1.809	6.12
17)		2-Methylphenol		1.015	0.997	0.980	0.938	1.043	0.972	0.929	0.982	4.13
18)		Hexachloroethane		0.533	0.521	0.507	0.499	0.539	0.498	0.484	0.511	3.89
19)	P	n-Nitroso-di-n...	0.831	0.879	0.840	0.833	0.787	0.847	0.812	0.766	0.824	4.30
20)		3+4-Methylphenols			1.292	1.262	1.176	1.312	1.197	1.108	1.224	6.36
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.464	0.451	0.459	0.418	0.461	0.428	0.406	0.441	5.28
23)	S	Nitrobenzene-d5		0.738	0.724	0.747	0.708	0.771	0.724	0.694	0.729	3.48
24)		Nitrobenzene		0.345	0.325	0.332	0.319	0.349	0.326	0.314	0.330	3.88
25)		Isophorone		0.611	0.582	0.592	0.555	0.616	0.584	0.554	0.585	4.17
26)	C	2-Nitrophenol		0.169	0.172	0.182	0.178	0.194	0.186	0.176	0.180	4.85
27)		2,4-Dimethylph...		0.322	0.310	0.318	0.300	0.329	0.307	0.294	0.311	3.99
28)		bis(2-Chloroet...		0.386	0.373	0.383	0.355	0.390	0.366	0.351	0.372	4.09
29)	C	2,4-Dichloroph...		0.291	0.280	0.290	0.273	0.298	0.277	0.268	0.282	3.77
30)		1,2,4-Trichlor...		0.324	0.316	0.318	0.299	0.324	0.301	0.292	0.310	4.26
31)		Naphthalene		1.051	1.002	1.004	0.934	1.017	0.943	0.902	0.979	5.46
32)		Benzoic acid			0.118	0.147	0.157	0.181	0.180	0.169	0.159	15.08
33)		4-Chloroaniline		0.414	0.408	0.409	0.379	0.421	0.393	0.363	0.398	5.26
34)	C	Hexachlorobuta...		0.195	0.188	0.198	0.184	0.200	0.184	0.179	0.190	4.30
35)		Caprolactam			0.073	0.075	0.072	0.081	0.078	0.069	0.075	5.84
36)	C	4-Chloro-3-met...		0.300	0.275	0.286	0.269	0.298	0.278	0.260	0.281	5.24
37)		2-Methylnaphth...		0.655	0.621	0.629	0.579	0.631	0.583	0.550	0.607	6.12
38)		1-Methylnaphth...		0.684	0.645	0.650	0.598	0.654	0.604	0.563	0.628	6.56

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF061925.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.626	0.609	0.602	0.557	0.598	0.577	0.563	0.590	4.27
41)	P	Hexachlorocycl...		0.235	0.308	0.336	0.365	0.376	0.389	0.335	17.02
42)	S	2,4,6-Tribromo...	0.415	0.414	0.428	0.400	0.438	0.411	0.374	0.412	4.96
43)	C	2,4,6-Trichlor...	0.385	0.380	0.394	0.365	0.408	0.389	0.371	0.385	3.71
44)		2,4,5-Trichlor...	0.407	0.403	0.421	0.391	0.416	0.407	0.388	0.405	2.95
45)	S	2-Fluorobiphenyl	3.480	3.272	3.184	2.861	2.999	2.816	2.702	3.045	9.15
46)		1,1'-Biphenyl	1.701	1.616	1.637	1.505	1.609	1.525	1.466	1.580	5.27
47)		2-Chloronaphth...	1.300	1.202	1.208	1.129	1.209	1.145	1.106	1.186	5.50
48)		2-Nitroaniline	0.321	0.329	0.337	0.324	0.358	0.337	0.320	0.332	3.93
49)		Acenaphthylene	2.110	2.006	2.011	1.861	1.995	1.891	1.787	1.952	5.64
50)		Dimethylphthalate	1.372	1.334	1.330	1.228	1.335	1.277	1.186	1.295	5.17
51)		2,6-Dinitrotol...	0.297	0.279	0.290	0.277	0.294	0.284	0.268	0.284	3.57
52)	C	Acenaphthene	1.247	1.199	1.241	1.142	1.228	1.172	1.107	1.191	4.44
53)		3-Nitroaniline	0.311	0.311	0.316	0.302	0.338	0.320	0.292	0.313	4.52
54)	P	2,4-Dinitrophenol		0.095	0.129	0.142	0.173	0.163	0.152	0.142	19.61
55)		Dibenzofuran	1.844	1.772	1.763	1.626	1.752	1.660	1.537	1.708	6.13
56)	P	4-Nitrophenol		0.189	0.218	0.208	0.238	0.229	0.203	0.214	8.25
57)		2,4-Dinitrotol...	0.373	0.378	0.397	0.367	0.407	0.383	0.338	0.378	5.90
58)		Fluorene	1.464	1.412	1.395	1.260	1.362	1.260	1.183	1.334	7.58
59)		2,3,4,6-Tetrac...	0.327	0.327	0.339	0.312	0.345	0.331	0.304	0.326	4.43
60)		Diethylphthalate	1.328	1.302	1.319	1.211	1.318	1.266	1.141	1.269	5.50
61)		4-Chlorophenyl...	0.713	0.656	0.669	0.599	0.640	0.609	0.568	0.636	7.64
62)		4-Nitroaniline	0.279	0.276	0.297	0.272	0.316	0.300	0.264	0.286	6.48
63)		Azobenzene	1.215	1.149	1.167	1.081	1.176	1.122	1.032	1.134	5.47
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.099	0.119	0.119	0.134	0.130	0.125	0.121	10.04
66)	c	n-Nitrosodiphe...	0.736	0.686	0.710	0.670	0.717	0.671	0.662	0.693	4.07
67)		4-Bromophenyl-...	0.231	0.221	0.235	0.218	0.236	0.228	0.225	0.228	3.03
68)		Hexachlorobenzene	0.263	0.248	0.257	0.241	0.262	0.252	0.247	0.253	3.29
69)		Atrazine	0.176	0.172	0.180	0.174	0.195	0.183	0.174	0.179	4.48
70)	C	Pentachlorophenol		0.102	0.119	0.125	0.142	0.135	0.133	0.126	11.30
71)		Phenanthrene	1.183	1.113	1.115	1.031	1.122	1.028	0.992	1.083	6.24
72)		Anthracene	1.226	1.123	1.149	1.064	1.140	1.065	1.011	1.111	6.35
73)		Carbazole	1.040	0.986	0.999	0.900	1.002	0.920	0.866	0.959	6.67
74)		Di-n-butylphth...	0.997	1.006	1.045	0.946	1.073	0.989	0.936	0.999	4.92
75)	C	Fluoranthene	1.136	1.088	1.090	0.954	1.059	0.972	0.899	1.028	8.44
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.745	0.860	0.773	0.824	0.719	0.587	0.751	12.71
78)		Pyrene	2.110	1.940	1.968	1.742	2.030	1.863	1.468	1.875	11.43
79)	S	Terphenyl-d14	3.383	3.111	3.066	2.655	3.070	2.772	2.208	2.895	13.30
80)		Butylbenzylpht...	0.478	0.470	0.538	0.547	0.613	0.597	0.563	0.544	10.01
81)		Benzo(a)anthra...	1.392	1.358	1.366	1.265	1.403	1.376	1.284	1.349	3.98
82)		3,3'-Dichlorob...		0.398	0.440	0.429	0.476	0.445	0.438	0.438	5.73
83)		Chrysene	1.243	1.191	1.208	1.164	1.295	1.177	1.150	1.204	4.17
84)		Bis(2-ethylhex...	0.650	0.675	0.767	0.803	0.861	0.843	0.878	0.782	11.52
85)	c	Di-n-octyl pht...		1.207	1.352	1.463	1.610	1.569	1.651	1.475	11.54

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF061925.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.528	1.488	1.545	1.474	1.648	1.539	1.442	1.523	4.38
88)		Benzo(b)fluora...	1.164	1.220	1.226	1.072	1.152	1.197	1.070	1.157	5.61
89)		Benzo(k)fluora...	1.206	1.004	1.035	1.037	1.193	1.038	1.068	1.083	7.55
90)	C	Benzo(a)pyrene	1.142	1.065	1.124	1.069	1.201	1.141	1.084	1.118	4.37
91)		Dibenzo(a,h)an...	1.249	1.214	1.293	1.180	1.337	1.240	1.152	1.238	5.13
92)		Benzo(g,h,i)pe...	1.239	1.198	1.266	1.188	1.332	1.255	1.161	1.234	4.66

(#) = Out of Range

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2484

Instrument ID: BNA_F Calibration Date/Time: 07/02/2025 11:41

Lab File ID: BF142964.D Init. Calib. Date(s): 06/19/2025 06/19/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 17:07 20:40

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.201	1.175		-2.2	
Benzaldehyde	0.841	0.869		3.3	
Phenol-d6	1.417	1.364		-3.7	
Phenol	1.575	1.528		-3.0	20.0
bis(2-Chloroethyl)ether	1.126	1.072		-4.8	
2-Chlorophenol	1.296	1.252		-3.4	
2-Methylphenol	0.982	0.951		-3.2	
2,2-oxybis(1-Chloropropane)	1.809	1.643		-9.2	
Acetophenone	0.441	0.428		-2.9	
3+4-Methylphenols	1.224	1.220		-0.3	
n-Nitroso-di-n-propylamine	0.824	0.806	0.050	-2.2	
Nitrobenzene-d5	0.365	0.381		4.4	
Hexachloroethane	0.511	0.505		-1.2	
Nitrobenzene	0.330	0.320		-3.0	
Isophorone	0.585	0.565		-3.4	
2-Nitrophenol	0.180	0.179		-0.6	20.0
2,4-Dimethylphenol	0.311	0.301		-3.2	
bis(2-Chloroethoxy)methane	0.372	0.360		-3.2	
2,4-Dichlorophenol	0.282	0.275		-2.5	20.0
Naphthalene	0.979	0.947		-3.3	
4-Chloroaniline	0.398	0.390		-2.0	
Hexachlorobutadiene	0.190	0.186		-2.1	20.0
Caprolactam	0.075	0.075		0.0	
4-Chloro-3-methylphenol	0.281	0.275		-2.1	20.0
2-Methylnaphthalene	0.607	0.601		-1.0	
Hexachlorocyclopentadiene	0.335	0.265	0.050	-20.9	
2,4,6-Trichlorophenol	0.385	0.371		-3.6	20.0
2-Fluorobiphenyl	1.522	1.598		5.0	
2,4,5-Trichlorophenol	0.405	0.391		-3.5	
1,1-Biphenyl	1.580	1.544		-2.3	
2-Chloronaphthalene	1.186	1.140		-3.9	
2-Nitroaniline	0.332	0.326		-1.8	
Dimethylphthalate	1.295	1.269		-2.0	
Acenaphthylene	1.952	1.901		-2.6	
2,6-Dinitrotoluene	0.284	0.284		0.0	
3-Nitroaniline	0.313	0.313		0.0	
Acenaphthene	1.191	1.162		-2.4	20.0
2,4-Dinitrophenol	0.142	0.122	0.050	-14.1	
4-Nitrophenol	0.214	0.246	0.050	15.0	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2484

Instrument ID: BNA_F Calibration Date/Time: 07/02/2025 11:41

Lab File ID: BF142964.D Init. Calib. Date(s): 06/19/2025 06/19/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 17:07 20:40

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.708	1.651		-3.3	
2,4-Dinitrotoluene	0.378	0.373		-1.3	
Diethylphthalate	1.269	1.281		0.9	
4-Chlorophenyl-phenylether	0.636	0.631		-0.8	
Fluorene	1.334	1.313		-1.6	
4-Nitroaniline	0.286	0.291		1.7	
4,6-Dinitro-2-methylphenol	0.121	0.113		-6.6	
n-Nitrosodiphenylamine	0.693	0.673		-2.9	20.0
2,4,6-Tribromophenol	0.206	0.203		-1.5	
4-Bromophenyl-phenylether	0.228	0.223		-2.2	
Hexachlorobenzene	0.253	0.240		-5.1	
Atrazine	0.179	0.188		5.0	
Pentachlorophenol	0.126	0.112		-11.1	20.0
Phenanthrene	1.083	1.038		-4.2	
Anthracene	1.111	1.071		-3.6	
Carbazole	0.959	0.921		-4.0	
Di-n-butylphthalate	0.999	1.051		5.2	
Fluoranthene	1.028	0.992		-3.5	20.0
Pyrene	1.875	1.887		0.6	
Terphenyl-d14	1.447	1.366		-5.6	
Butylbenzylphthalate	0.544	0.594		9.2	
3,3-Dichlorobenzidine	0.438	0.424		-3.2	
Benzo(a)anthracene	1.349	1.348		-0.1	
Chrysene	1.204	1.123		-6.7	
Bis(2-ethylhexyl)phthalate	0.782	0.847		8.3	
Di-n-octyl phthalate	1.475	1.461		-0.9	20.0
Benzo(b)fluoranthene	1.157	1.268		9.6	
Benzo(k)fluoranthene	1.083	1.006		-7.1	
Benzo(a)pyrene	1.118	1.116		-0.2	20.0
Indeno(1,2,3-cd)pyrene	1.523	1.408		-7.6	
Dibenzo(a,h)anthracene	1.238	1.141		-7.8	
Benzo(g,h,i)perylene	1.234	1.137		-7.9	
1,2,4,5-Tetrachlorobenzene	0.590	0.588		-0.3	
1,4-Dioxane	0.480	0.432		-10.0	20.0
2,3,4,6-Tetrachlorophenol	0.326	0.315		-3.4	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2484

Instrument ID: BNA_F Calibration Date/Time: 07/03/2025 09:55

Lab File ID: BF142987.D Init. Calib. Date(s): 06/19/2025 06/19/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 17:07 20:40

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.201	1.155		-3.8	
Benzaldehyde	0.841	0.872		3.7	
Phenol-d6	1.417	1.350		-4.7	
Phenol	1.575	1.488		-5.5	20.0
bis(2-Chloroethyl)ether	1.126	1.068		-5.2	
2-Chlorophenol	1.296	1.258		-2.9	
2-Methylphenol	0.982	0.942		-4.1	
2,2-oxybis(1-Chloropropane)	1.809	1.607		-11.2	
Acetophenone	0.441	0.435		-1.4	
3+4-Methylphenols	1.224	1.205		-1.6	
n-Nitroso-di-n-propylamine	0.824	0.783	0.050	-5.0	
Nitrobenzene-d5	0.365	0.383		4.9	
Hexachloroethane	0.511	0.494		-3.3	
Nitrobenzene	0.330	0.319		-3.3	
Isophorone	0.585	0.556		-5.0	
2-Nitrophenol	0.180	0.181		0.6	20.0
2,4-Dimethylphenol	0.311	0.288		-7.4	
bis(2-Chloroethoxy)methane	0.372	0.360		-3.2	
2,4-Dichlorophenol	0.282	0.274		-2.8	20.0
Naphthalene	0.979	0.960		-1.9	
4-Chloroaniline	0.398	0.386		-3.0	
Hexachlorobutadiene	0.190	0.191		0.5	20.0
Caprolactam	0.075	0.071		-5.3	
4-Chloro-3-methylphenol	0.281	0.270		-3.9	20.0
2-Methylnaphthalene	0.607	0.585		-3.6	
Hexachlorocyclopentadiene	0.335	0.268	0.050	-20.0	
2,4,6-Trichlorophenol	0.385	0.379		-1.6	20.0
2-Fluorobiphenyl	1.522	1.626		6.8	
2,4,5-Trichlorophenol	0.405	0.404		-0.2	
1,1-Biphenyl	1.580	1.566		-0.9	
2-Chloronaphthalene	1.186	1.170		-1.3	
2-Nitroaniline	0.332	0.323		-2.7	
Dimethylphthalate	1.295	1.278		-1.3	
Acenaphthylene	1.952	1.899		-2.7	
2,6-Dinitrotoluene	0.284	0.278		-2.1	
3-Nitroaniline	0.313	0.303		-3.2	
Acenaphthene	1.191	1.172		-1.6	20.0
2,4-Dinitrophenol	0.142	0.131	0.050	-7.7	
4-Nitrophenol	0.214	0.226	0.050	5.6	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2484

Instrument ID: BNA_F Calibration Date/Time: 07/03/2025 09:55

Lab File ID: BF142987.D Init. Calib. Date(s): 06/19/2025 06/19/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 17:07 20:40

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.708	1.633		-4.4	
2,4-Dinitrotoluene	0.378	0.365		-3.4	
Diethylphthalate	1.269	1.256		-1.0	
4-Chlorophenyl-phenylether	0.636	0.627		-1.4	
Fluorene	1.334	1.318		-1.2	
4-Nitroaniline	0.286	0.271		-5.2	
4,6-Dinitro-2-methylphenol	0.121	0.117		-3.3	
n-Nitrosodiphenylamine	0.693	0.695		0.3	20.0
2,4,6-Tribromophenol	0.206	0.200		-2.9	
4-Bromophenyl-phenylether	0.228	0.231		1.3	
Hexachlorobenzene	0.253	0.247		-2.4	
Atrazine	0.179	0.189		5.6	
Pentachlorophenol	0.126	0.112		-11.1	20.0
Phenanthrene	1.083	1.056		-2.5	
Anthracene	1.111	1.095		-1.4	
Carbazole	0.959	0.918		-4.3	
Di-n-butylphthalate	0.999	1.042		4.3	
Fluoranthene	1.028	0.963		-6.3	20.0
Pyrene	1.875	1.861		-0.7	
Terphenyl-d14	1.447	1.388		-4.1	
Butylbenzylphthalate	0.544	0.616		13.2	
3,3-Dichlorobenzidine	0.438	0.467		6.6	
Benzo(a)anthracene	1.349	1.360		0.8	
Chrysene	1.204	1.153		-4.2	
Bis(2-ethylhexyl)phthalate	0.782	0.921		17.8	
Di-n-octyl phthalate	1.475	1.699		15.2	20.0
Benzo(b)fluoranthene	1.157	1.162		0.4	
Benzo(k)fluoranthene	1.083	1.015		-6.3	
Benzo(a)pyrene	1.118	1.091		-2.4	20.0
Indeno(1,2,3-cd)pyrene	1.523	1.412		-7.3	
Dibenzo(a,h)anthracene	1.238	1.144		-7.6	
Benzo(g,h,i)perylene	1.234	1.104		-10.5	
1,2,4,5-Tetrachlorobenzene	0.590	0.594		0.7	
1,4-Dioxane	0.480	0.430		-10.4	20.0
2,3,4,6-Tetrachlorophenol	0.326	0.310		-4.9	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2484

Instrument ID: BNA_F Calibration Date/Time: 07/07/2025 12:12

Lab File ID: BF143003.D Init. Calib. Date(s): 06/19/2025 06/19/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 17:07 20:40

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.201	1.159		-3.5	
Benzaldehyde	0.841	0.897		6.7	
Phenol-d6	1.417	1.363		-3.8	
Phenol	1.575	1.512		-4.0	20.0
bis(2-Chloroethyl)ether	1.126	1.086		-3.6	
2-Chlorophenol	1.296	1.244		-4.0	
2-Methylphenol	0.982	0.979		-0.3	
2,2-oxybis(1-Chloropropane)	1.809	1.645		-9.1	
Acetophenone	0.441	0.434		-1.6	
3+4-Methylphenols	1.224	1.224		0.0	
n-Nitroso-di-n-propylamine	0.824	0.811	0.050	-1.6	
Nitrobenzene-d5	0.365	0.385		5.5	
Hexachloroethane	0.511	0.506		-1.0	
Nitrobenzene	0.330	0.319		-3.3	
Isophorone	0.585	0.566		-3.2	
2-Nitrophenol	0.180	0.184		2.2	20.0
2,4-Dimethylphenol	0.311	0.300		-3.5	
bis(2-Chloroethoxy)methane	0.372	0.368		-1.1	
2,4-Dichlorophenol	0.282	0.278		-1.4	20.0
Naphthalene	0.979	0.963		-1.6	
4-Chloroaniline	0.398	0.370		-7.0	
Hexachlorobutadiene	0.190	0.191		0.5	20.0
Caprolactam	0.075	0.072		-4.0	
4-Chloro-3-methylphenol	0.281	0.276		-1.8	20.0
2-Methylnaphthalene	0.607	0.593		-2.3	
Hexachlorocyclopentadiene	0.335	0.343	0.050	2.4	
2,4,6-Trichlorophenol	0.385	0.364		-5.5	20.0
2-Fluorobiphenyl	1.522	1.599		5.1	
2,4,5-Trichlorophenol	0.405	0.378		-6.7	
1,1-Biphenyl	1.580	1.546		-2.2	
2-Chloronaphthalene	1.186	1.160		-2.2	
2-Nitroaniline	0.332	0.322		-3.0	
Dimethylphthalate	1.295	1.251		-3.4	
Acenaphthylene	1.952	1.905		-2.4	
2,6-Dinitrotoluene	0.284	0.276		-2.8	
3-Nitroaniline	0.313	0.297		-5.1	
Acenaphthene	1.191	1.193		0.2	20.0
2,4-Dinitrophenol	0.142	0.169	0.050	19.0	
4-Nitrophenol	0.214	0.207	0.050	-3.3	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2484

Instrument ID: BNA_F Calibration Date/Time: 07/07/2025 12:12

Lab File ID: BF143003.D Init. Calib. Date(s): 06/19/2025 06/19/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 17:07 20:40

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.708	1.645		-3.7	
2,4-Dinitrotoluene	0.378	0.360		-4.8	
Diethylphthalate	1.269	1.220		-3.9	
4-Chlorophenyl-phenylether	0.636	0.616		-3.1	
Fluorene	1.334	1.274		-4.5	
4-Nitroaniline	0.286	0.265		-7.3	
4,6-Dinitro-2-methylphenol	0.121	0.121		0.0	
n-Nitrosodiphenylamine	0.693	0.704		1.6	20.0
2,4,6-Tribromophenol	0.206	0.187		-9.2	
4-Bromophenyl-phenylether	0.228	0.232		1.8	
Hexachlorobenzene	0.253	0.255		0.8	
Atrazine	0.179	0.184		2.8	
Pentachlorophenol	0.126	0.143		13.5	20.0
Phenanthrene	1.083	1.050		-3.0	
Anthracene	1.111	1.081		-2.7	
Carbazole	0.959	0.888		-7.4	
Di-n-butylphthalate	0.999	1.010		1.1	
Fluoranthene	1.028	0.933		-9.2	20.0
Pyrene	1.875	1.782		-5.0	
Terphenyl-d14	1.447	1.318		-8.9	
Butylbenzylphthalate	0.544	0.602		10.7	
3,3-Dichlorobenzidine	0.438	0.480		9.6	
Benzo(a)anthracene	1.349	1.319		-2.2	
Chrysene	1.204	1.216		1.0	
Bis(2-ethylhexyl)phthalate	0.782	0.919		17.5	
Di-n-octyl phthalate	1.475	1.705		15.6	20.0
Benzo(b)fluoranthene	1.157	1.189		2.8	
Benzo(k)fluoranthene	1.083	1.000		-7.7	
Benzo(a)pyrene	1.118	1.099		-1.7	20.0
Indeno(1,2,3-cd)pyrene	1.523	1.334		-12.4	
Dibenzo(a,h)anthracene	1.238	1.100		-11.1	
Benzo(g,h,i)perylene	1.234	1.044		-15.4	
1,2,4,5-Tetrachlorobenzene	0.590	0.592		0.3	
1,4-Dioxane	0.480	0.430		-10.4	20.0
2,3,4,6-Tetrachlorophenol	0.326	0.293		-10.1	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2484

Instrument ID: BNA_F Calibration Date/Time: 07/08/2025 10:54

Lab File ID: BF143025.D Init. Calib. Date(s): 06/19/2025 06/19/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 17:07 20:40

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.201	1.183		-1.5	
Benzaldehyde	0.841	0.903		7.4	
Phenol-d6	1.417	1.384		-2.3	
Phenol	1.575	1.550		-1.6	20.0
bis(2-Chloroethyl)ether	1.126	1.102		-2.1	
2-Chlorophenol	1.296	1.276		-1.5	
2-Methylphenol	0.982	0.973		-0.9	
2,2-oxybis(1-Chloropropane)	1.809	1.645		-9.1	
Acetophenone	0.441	0.431		-2.3	
3+4-Methylphenols	1.224	1.225		0.1	
n-Nitroso-di-n-propylamine	0.824	0.805	0.050	-2.3	
Nitrobenzene-d5	0.365	0.385		5.5	
Hexachloroethane	0.511	0.498		-2.5	
Nitrobenzene	0.330	0.315		-4.5	
Isophorone	0.585	0.566		-3.2	
2-Nitrophenol	0.180	0.181		0.6	20.0
2,4-Dimethylphenol	0.311	0.301		-3.2	
bis(2-Chloroethoxy)methane	0.372	0.361		-3.0	
2,4-Dichlorophenol	0.282	0.275		-2.5	20.0
Naphthalene	0.979	0.952		-2.8	
4-Chloroaniline	0.398	0.391		-1.8	
Hexachlorobutadiene	0.190	0.185		-2.6	20.0
Caprolactam	0.075	0.078		4.0	
4-Chloro-3-methylphenol	0.281	0.276		-1.8	20.0
2-Methylnaphthalene	0.607	0.594		-2.1	
Hexachlorocyclopentadiene	0.335	0.341	0.050	1.8	
2,4,6-Trichlorophenol	0.385	0.367		-4.7	20.0
2-Fluorobiphenyl	1.522	1.552		2.0	
2,4,5-Trichlorophenol	0.405	0.383		-5.4	
1,1-Biphenyl	1.580	1.507		-4.6	
2-Chloronaphthalene	1.186	1.125		-5.1	
2-Nitroaniline	0.332	0.326		-1.8	
Dimethylphthalate	1.295	1.287		-0.6	
Acenaphthylene	1.952	1.854		-5.0	
2,6-Dinitrotoluene	0.284	0.279		-1.8	
3-Nitroaniline	0.313	0.304		-2.9	
Acenaphthene	1.191	1.180		-0.9	20.0
2,4-Dinitrophenol	0.142	0.188	0.050	32.4	
4-Nitrophenol	0.214	0.259	0.050	21.0	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2484

Instrument ID: BNA_F Calibration Date/Time: 07/08/2025 10:54

Lab File ID: BF143025.D Init. Calib. Date(s): 06/19/2025 06/19/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 17:07 20:40

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.708	1.634		-4.3	
2,4-Dinitrotoluene	0.378	0.376		-0.5	
Diethylphthalate	1.269	1.241		-2.2	
4-Chlorophenyl-phenylether	0.636	0.623		-2.0	
Fluorene	1.334	1.302		-2.4	
4-Nitroaniline	0.286	0.282		-1.4	
4,6-Dinitro-2-methylphenol	0.121	0.120		-0.8	
n-Nitrosodiphenylamine	0.693	0.683		-1.4	20.0
2,4,6-Tribromophenol	0.206	0.200		-2.9	
4-Bromophenyl-phenylether	0.228	0.230		0.9	
Hexachlorobenzene	0.253	0.251		-0.8	
Atrazine	0.179	0.189		5.6	
Pentachlorophenol	0.126	0.185		46.8	20.0
Phenanthrene	1.083	1.051		-3.0	
Anthracene	1.111	1.089		-2.0	
Carbazole	0.959	0.908		-5.3	
Di-n-butylphthalate	0.999	1.022		2.3	
Fluoranthene	1.028	0.959		-6.7	20.0
Pyrene	1.875	2.136		13.9	
Terphenyl-d14	1.447	1.536		6.2	
Butylbenzylphthalate	0.544	0.573		5.3	
3,3-Dichlorobenzidine	0.438	0.444		1.4	
Benzo(a)anthracene	1.349	1.310		-2.9	
Chrysene	1.204	1.161		-3.6	
Bis(2-ethylhexyl)phthalate	0.782	0.775		-0.9	
Di-n-octyl phthalate	1.475	1.479		0.3	20.0
Benzo(b)fluoranthene	1.157	1.133		-2.1	
Benzo(k)fluoranthene	1.083	0.990		-8.6	
Benzo(a)pyrene	1.118	1.090		-2.5	20.0
Indeno(1,2,3-cd)pyrene	1.523	1.509		-0.9	
Dibenzo(a,h)anthracene	1.238	1.206		-2.6	
Benzo(g,h,i)perylene	1.234	1.198		-2.9	
1,2,4,5-Tetrachlorobenzene	0.590	0.574		-2.7	
1,4-Dioxane	0.480	0.434		-9.6	20.0
2,3,4,6-Tetrachlorophenol	0.326	0.307		-5.8	

All other compounds must meet a minimum RRF of 0.010.