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

LAB CHRONICLE

OrderID:	Q2543	**OrderDate:**	7/9/2025 12:26:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	O42,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2543-01	**TP-41**	**SOIL**			**07/08/25**			**07/09/25**
			SVOC-TCL BNA -20	8270E		07/10/25	07/15/25	
Q2543-02	**TP-49**	**SOIL**			**07/09/25**			**07/09/25**
			SVOC-TCL BNA -20	8270E		07/10/25	07/10/25	
Q2543-03	**TP-23**	**SOIL**			**07/09/25**			**07/09/25**
			SVOC-TCL BNA -20	8270E		07/10/25	07/10/25	
Q2543-04	**TP-23-99**	**SOIL**			**07/09/25**			**07/09/25**
			SVOC-TCL BNA -20	8270E		07/10/25	07/10/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2543

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID : TP-41									
Q2543-01	TP-41	SOIL	1-Nonadecene	*	180.000	J	0	0	ug/Kg
Q2543-01	TP-41	SOIL	1-Tetracosene	*	270.000	J	0	0	ug/Kg
Q2543-01	TP-41	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	200.000	AB	0	0	ug/Kg
Q2543-01	TP-41	SOIL	Benzophenone	*	250.000	J	0	0	ug/Kg
Q2543-01	TP-41	SOIL	n-Hexadecanoic acid	*	310.000	J	0	0	ug/Kg
			Total Tics :		**1,210.00**				
			Total Concentration:		**1,210.00**				
Client ID : TP-49									
Q2543-02	TP-49	SOIL	Fluoranthene		310.000		40.6	230	ug/Kg
Q2543-02	TP-49	SOIL	Pyrene		250.000		48.7	230	ug/Kg
Q2543-02	TP-49	SOIL	Benzo(a)anthracene		150.000	J	31.1	230	ug/Kg
Q2543-02	TP-49	SOIL	Chrysene		170.000	J	26.9	230	ug/Kg
Q2543-02	TP-49	SOIL	Benzo(b)fluoranthene		250.000		25.7	230	ug/Kg
Q2543-02	TP-49	SOIL	Benzo(k)fluoranthene		92.600	J	30.3	230	ug/Kg
Q2543-02	TP-49	SOIL	Benzo(a)pyrene		170.000	JQ	39.9	230	ug/Kg
Q2543-02	TP-49	SOIL	Benzo(g,h,i)perylene		96.100	J	34.8	230	ug/Kg
			Total Svoc :		**1,488.70**				
Q2543-02	TP-49	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	310.000	AB	0	0	ug/Kg
Q2543-02	TP-49	SOIL	Benzo[e]pyrene	*	150.000	J	0	0	ug/Kg
Q2543-02	TP-49	SOIL	Benzophenone	*	280.000	J	0	0	ug/Kg
Q2543-02	TP-49	SOIL	Butane, 2-methoxy-2-methyl-	*	610.000	J	0	0	ug/Kg
Q2543-02	TP-49	SOIL	Cyclohexadecane	*	160.000	J	0	0	ug/Kg
Q2543-02	TP-49	SOIL	n-Hexadecanoic acid	*	270.000	J	0	0	ug/Kg
			Total Tics :		**1,780.00**				
			Total Concentration:		**3,268.70**				
Client ID : TP-23									
Q2543-03	TP-23	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	170.000	AB	0	0	ug/Kg
Q2543-03	TP-23	SOIL	5-Eicosene, (E)-	*	79.900	J	0	0	ug/Kg
Q2543-03	TP-23	SOIL	Benzophenone	*	230.000	J	0	0	ug/Kg
Q2543-03	TP-23	SOIL	Butane, 2-methoxy-2-methyl-	*	410.000	J	0	0	ug/Kg
Q2543-03	TP-23	SOIL	n-Hexadecanoic acid	*	120.000	J	0	0	ug/Kg
			Total Tics :		**1,009.90**				
			Total Concentration:		**1,009.90**				
Client ID : TP-23-99									
Q2543-04	TP-23-99	SOIL	1-Nonadecene	*	83.400	J	0	0	ug/Kg
Q2543-04	TP-23-99	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	180.000	AB	0	0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2543

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration		C	MDL	RDL	Units
Q2543-04	TP-23-99	SOIL	Benzophenone	*	220.000	J	0	0	ug/Kg
Q2543-04	TP-23-99	SOIL	Butane, 2-methoxy-2-methyl-	*	430.000	J	0	0	ug/Kg
Q2543-04	TP-23-99	SOIL	n-Hexadecanoic acid	*	110.000	J	0	0	ug/Kg
			Total Tics :		**1,023.40**				
			Total Concentration:		**1,023.40**				

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-41	SDG No.:	Q2543
Lab Sample ID:	Q2543-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82
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
BP025143.D	1	07/10/25 09:55	07/15/25 13:07	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	U	190	400	ug/Kg
108-95-2	Phenol	26.9	U	26.9	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	29.6	U	29.6	210	ug/Kg
95-57-8	2-Chlorophenol	29.7	U	29.7	210	ug/Kg
95-48-7	2-Methylphenol	36.4	U	36.4	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	45.7	U	45.7	210	ug/Kg
98-86-2	Acetophenone	35.9	U	35.9	210	ug/Kg
65794-96-9	3+4-Methylphenols	50.1	U	50.1	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	57.7	U	57.7	97.4	ug/Kg
67-72-1	Hexachloroethane	21.4	U	21.4	210	ug/Kg
98-95-3	Nitrobenzene	22.3	U	22.3	210	ug/Kg
78-59-1	Isophorone	39.9	U	39.9	210	ug/Kg
88-75-5	2-Nitrophenol	70.9	U	70.9	210	ug/Kg
105-67-9	2,4-Dimethylphenol	78.9	U	78.9	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	37.5	U	37.5	210	ug/Kg
120-83-2	2,4-Dichlorophenol	34.5	U	34.5	210	ug/Kg
91-20-3	Naphthalene	27.6	U	27.6	210	ug/Kg
106-47-8	4-Chloroaniline	43.1	U	43.1	210	ug/Kg
87-68-3	Hexachlorobutadiene	30.8	UQ	30.8	210	ug/Kg
105-60-2	Caprolactam	63.5	U	63.5	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	35.0	U	35.0	210	ug/Kg
91-57-6	2-Methylnaphthalene	31.2	U	31.2	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	UQ	140	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	24.1	UQ	24.1	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	35.4	UQ	35.4	210	ug/Kg
92-52-4	1,1-Biphenyl	26.6	U	26.6	210	ug/Kg
91-58-7	2-Chloronaphthalene	27.4	U	27.4	210	ug/Kg
88-74-4	2-Nitroaniline	58.6	U	58.6	210	ug/Kg
131-11-3	Dimethylphthalate	33.0	U	33.0	210	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-41	SDG No.:	Q2543
Lab Sample ID:	Q2543-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82
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
BP025143.D	1	07/10/25 09:55	07/15/25 13:07	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	35.2	U	35.2	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	40.9	U	40.9	210	ug/Kg
99-09-2	3-Nitroaniline	56.0	U	56.0	210	ug/Kg
83-32-9	Acenaphthene	25.9	U	25.9	210	ug/Kg
51-28-5	2,4-Dinitrophenol	280	U	280	400	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	400	ug/Kg
132-64-9	Dibenzofuran	27.6	U	27.6	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	61.0	U	61.0	210	ug/Kg
84-66-2	Diethylphthalate	34.5	U	34.5	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	32.5	U	32.5	210	ug/Kg
86-73-7	Fluorene	30.8	U	30.8	210	ug/Kg
100-01-6	4-Nitroaniline	78.2	U	78.2	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	UQ	130	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	40.1	U	40.1	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	33.9	U	33.9	210	ug/Kg
118-74-1	Hexachlorobenzene	30.8	UQ	30.8	210	ug/Kg
1912-24-9	Atrazine	41.4	U	41.4	210	ug/Kg
87-86-5	Pentachlorophenol	62.5	U	62.5	400	ug/Kg
85-01-8	Phenanthrene	25.5	U	25.5	210	ug/Kg
120-12-7	Anthracene	40.6	U	40.6	210	ug/Kg
86-74-8	Carbazole	38.0	U	38.0	210	ug/Kg
84-74-2	Di-n-butylphthalate	58.3	U	58.3	210	ug/Kg
206-44-0	Fluoranthene	36.5	U	36.5	210	ug/Kg
129-00-0	Pyrene	43.8	U	43.8	210	ug/Kg
85-68-7	Butylbenzylphthalate	87.0	UQ	87.0	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	44.7	U	44.7	400	ug/Kg
56-55-3	Benzo(a)anthracene	28.0	U	28.0	210	ug/Kg
218-01-9	Chrysene	24.2	U	24.2	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	72.1	U	72.1	210	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	23.1	U	23.1	210	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-41	SDG No.:	Q2543
Lab Sample ID:	Q2543-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82
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
BP025143.D	1	07/10/25 09:55	07/15/25 13:07	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	27.3	U	27.3	210	ug/Kg
50-32-8	Benzo(a)pyrene	35.9	UQ	35.9	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	35.4	UQ	35.4	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	33.4	U	33.4	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	31.3	U	31.3	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	31.2	U	31.2	210	ug/Kg
123-91-1	1,4-Dioxane	55.0	U	55.0	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	33.4	U	33.4	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	88.4		18 - 112	59%	SPK: 150
13127-88-3	Phenol-d6	77.1		15 - 107	51%	SPK: 150
4165-60-0	Nitrobenzene-d5	50.2		18 - 107	50%	SPK: 100
321-60-8	2-Fluorobiphenyl	46.0		20 - 109	46%	SPK: 100
118-79-6	2,4,6-Tribromophenol	93.6		10 - 116	62%	SPK: 150
1718-51-0	Terphenyl-d14	51.0		10 - 105	51%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	556000	7.443			
1146-65-2	Naphthalene-d8	2500000	10.19			
15067-26-2	Acenaphthene-d10	1660000	14.095			
1517-22-2	Phenanthrene-d10	3080000	16.919			
1719-03-5	Chrysene-d12	3160000	21.336			
1520-96-3	Perylene-d12	3830000	24.46			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	200	AB		4.66	ug/Kg
000119-61-9	Benzophenone	250	J		15.5	ug/Kg
000057-10-3	n-Hexadecanoic acid	310	J		17.9	ug/Kg
010192-32-2	1-Tetracosene	270	J		21.1	ug/Kg
018435-45-5	1-Nonadecene	180	J		22.3	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	07/08/25
Project:	South River WM Replacement			Date Received:	07/09/25
Client Sample ID:	TP-41			SDG No.:	Q2543
Lab Sample ID:	Q2543-01			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	82
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
BP025143.D	1	07/10/25 09:55	07/15/25 13:07	PB168787

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:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49	SDG No.:	Q2543
Lab Sample ID:	Q2543-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	73.9
Sample Wt/Vol:	30.02 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
BM050394.D	1	07/10/25 09:55	07/10/25 17:58	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	210	U	210	450	ug/Kg
108-95-2	Phenol	29.9	U	29.9	230	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	32.9	U	32.9	230	ug/Kg
95-57-8	2-Chlorophenol	33.0	U	33.0	230	ug/Kg
95-48-7	2-Methylphenol	40.4	U	40.4	230	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	50.7	U	50.7	230	ug/Kg
98-86-2	Acetophenone	39.9	U	39.9	230	ug/Kg
65794-96-9	3+4-Methylphenols	55.6	U	55.6	450	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	64.1	U	64.1	110	ug/Kg
67-72-1	Hexachloroethane	23.8	U	23.8	230	ug/Kg
98-95-3	Nitrobenzene	24.7	U	24.7	230	ug/Kg
78-59-1	Isophorone	44.4	U	44.4	230	ug/Kg
88-75-5	2-Nitrophenol	78.7	U	78.7	230	ug/Kg
105-67-9	2,4-Dimethylphenol	87.6	U	87.6	230	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	41.7	U	41.7	230	ug/Kg
120-83-2	2,4-Dichlorophenol	38.3	U	38.3	230	ug/Kg
91-20-3	Naphthalene	30.7	U	30.7	230	ug/Kg
106-47-8	4-Chloroaniline	47.9	U	47.9	230	ug/Kg
87-68-3	Hexachlorobutadiene	34.2	UQ	34.2	230	ug/Kg
105-60-2	Caprolactam	70.5	U	70.5	450	ug/Kg
59-50-7	4-Chloro-3-methylphenol	38.8	U	38.8	230	ug/Kg
91-57-6	2-Methylnaphthalene	34.6	U	34.6	230	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	UQ	160	450	ug/Kg
88-06-2	2,4,6-Trichlorophenol	26.8	UQ	26.8	230	ug/Kg
95-95-4	2,4,5-Trichlorophenol	39.4	UQ	39.4	230	ug/Kg
92-52-4	1,1-Biphenyl	29.5	U	29.5	230	ug/Kg
91-58-7	2-Chloronaphthalene	30.4	U	30.4	230	ug/Kg
88-74-4	2-Nitroaniline	65.0	U	65.0	230	ug/Kg
131-11-3	Dimethylphthalate	36.6	U	36.6	230	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49	SDG No.:	Q2543
Lab Sample ID:	Q2543-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	73.9
Sample Wt/Vol:	30.02 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
BM050394.D	1	07/10/25 09:55	07/10/25 17:58	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	39.1	U	39.1	230	ug/Kg
606-20-2	2,6-Dinitrotoluene	45.4	U	45.4	230	ug/Kg
99-09-2	3-Nitroaniline	62.2	U	62.2	230	ug/Kg
83-32-9	Acenaphthene	28.8	U	28.8	230	ug/Kg
51-28-5	2,4-Dinitrophenol	310	U	310	450	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	450	ug/Kg
132-64-9	Dibenzofuran	30.7	U	30.7	230	ug/Kg
121-14-2	2,4-Dinitrotoluene	67.7	U	67.7	230	ug/Kg
84-66-2	Diethylphthalate	38.3	U	38.3	230	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	36.1	U	36.1	230	ug/Kg
86-73-7	Fluorene	34.2	U	34.2	230	ug/Kg
100-01-6	4-Nitroaniline	86.8	U	86.8	230	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	140	UQ	140	450	ug/Kg
86-30-6	n-Nitrosodiphenylamine	44.5	U	44.5	230	ug/Kg
101-55-3	4-Bromophenyl-phenylether	37.6	U	37.6	230	ug/Kg
118-74-1	Hexachlorobenzene	34.2	UQ	34.2	230	ug/Kg
1912-24-9	Atrazine	46.0	U	46.0	230	ug/Kg
87-86-5	Pentachlorophenol	69.4	U	69.4	450	ug/Kg
85-01-8	Phenanthrene	28.3	U	28.3	230	ug/Kg
120-12-7	Anthracene	45.0	U	45.0	230	ug/Kg
86-74-8	Carbazole	42.2	U	42.2	230	ug/Kg
84-74-2	Di-n-butylphthalate	64.8	U	64.8	230	ug/Kg
206-44-0	Fluoranthene	310		40.6	230	ug/Kg
129-00-0	Pyrene	250		48.7	230	ug/Kg
85-68-7	Butylbenzylphthalate	96.6	UQ	96.6	230	ug/Kg
91-94-1	3,3-Dichlorobenzidine	49.6	U	49.6	450	ug/Kg
56-55-3	Benzo(a)anthracene	150	J	31.1	230	ug/Kg
218-01-9	Chrysene	170	J	26.9	230	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	80.1	U	80.1	230	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	450	ug/Kg
205-99-2	Benzo(b)fluoranthene	250		25.7	230	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49	SDG No.:	Q2543
Lab Sample ID:	Q2543-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	73.9
Sample Wt/Vol:	30.02 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
BM050394.D	1	07/10/25 09:55	07/10/25 17:58	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	92.6	J	30.3	230	ug/Kg
50-32-8	Benzo(a)pyrene	170	JQ	39.9	230	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	39.4	UQ	39.4	230	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	37.1	U	37.1	230	ug/Kg
191-24-2	Benzo(g,h,i)perylene	96.1	J	34.8	230	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	34.6	U	34.6	230	ug/Kg
123-91-1	1,4-Dioxane	61.1	U	61.1	230	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	37.1	U	37.1	230	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	126		18 - 112	84%	SPK: 150
13127-88-3	Phenol-d6	128		15 - 107	85%	SPK: 150
4165-60-0	Nitrobenzene-d5	75.8		18 - 107	76%	SPK: 100
321-60-8	2-Fluorobiphenyl	72.3		20 - 109	72%	SPK: 100
118-79-6	2,4,6-Tribromophenol	145		10 - 116	97%	SPK: 150
1718-51-0	Terphenyl-d14	69.8		10 - 105	70%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	578000	7.863			
1146-65-2	Naphthalene-d8	2140000	10.657			
15067-26-2	Acenaphthene-d10	1400000	14.492			
1517-22-2	Phenanthrene-d10	2860000	17.221			
1719-03-5	Chrysene-d12	3180000	21.45			
1520-96-3	Perylene-d12	2910000	24.491			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	610	J		3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	310	AB		4.97	ug/Kg
000119-61-9	Benzophenone	280	J		15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	270	J		18.1	ug/Kg
000295-65-8	Cyclohexadecane	160	J		21.1	ug/Kg
000192-97-2	Benzo[e]pyrene	150	J		24.2	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	07/09/25
Project:	South River WM Replacement			Date Received:	07/09/25
Client Sample ID:	TP-49			SDG No.:	Q2543
Lab Sample ID:	Q2543-02			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	73.9
Sample Wt/Vol:	30.02	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
BM050394.D	1	07/10/25 09:55	07/10/25 17:58	PB168787

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:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23	SDG No.:	Q2543
Lab Sample ID:	Q2543-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85
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
BM050402.D	1	07/10/25 09:55	07/10/25 23:19	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	390	ug/Kg
108-95-2	Phenol	26.0	U	26.0	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	28.6	U	28.6	200	ug/Kg
95-57-8	2-Chlorophenol	28.7	U	28.7	200	ug/Kg
95-48-7	2-Methylphenol	35.1	U	35.1	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	44.1	U	44.1	200	ug/Kg
98-86-2	Acetophenone	34.7	U	34.7	200	ug/Kg
65794-96-9	3+4-Methylphenols	48.3	U	48.3	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	55.7	U	55.7	94.0	ug/Kg
67-72-1	Hexachloroethane	20.7	U	20.7	200	ug/Kg
98-95-3	Nitrobenzene	21.5	U	21.5	200	ug/Kg
78-59-1	Isophorone	38.5	U	38.5	200	ug/Kg
88-75-5	2-Nitrophenol	68.4	U	68.4	200	ug/Kg
105-67-9	2,4-Dimethylphenol	76.1	U	76.1	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	36.2	U	36.2	200	ug/Kg
120-83-2	2,4-Dichlorophenol	33.2	U	33.2	200	ug/Kg
91-20-3	Naphthalene	26.7	U	26.7	200	ug/Kg
106-47-8	4-Chloroaniline	41.6	U	41.6	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.7	UQ	29.7	200	ug/Kg
105-60-2	Caprolactam	61.2	U	61.2	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	33.7	U	33.7	200	ug/Kg
91-57-6	2-Methylnaphthalene	30.1	U	30.1	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	UQ	140	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.3	UQ	23.3	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	34.2	UQ	34.2	200	ug/Kg
92-52-4	1,1-Biphenyl	25.6	U	25.6	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.4	U	26.4	200	ug/Kg
88-74-4	2-Nitroaniline	56.5	U	56.5	200	ug/Kg
131-11-3	Dimethylphthalate	31.8	U	31.8	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23	SDG No.:	Q2543
Lab Sample ID:	Q2543-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85
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
BM050402.D	1	07/10/25 09:55	07/10/25 23:19	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	34.0	U	34.0	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	39.5	U	39.5	200	ug/Kg
99-09-2	3-Nitroaniline	54.0	U	54.0	200	ug/Kg
83-32-9	Acenaphthene	25.0	U	25.0	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	26.7	U	26.7	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	58.9	U	58.9	200	ug/Kg
84-66-2	Diethylphthalate	33.2	U	33.2	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.4	U	31.4	200	ug/Kg
86-73-7	Fluorene	29.7	U	29.7	200	ug/Kg
100-01-6	4-Nitroaniline	75.4	U	75.4	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	UQ	120	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	38.7	U	38.7	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	32.7	U	32.7	200	ug/Kg
118-74-1	Hexachlorobenzene	29.7	UQ	29.7	200	ug/Kg
1912-24-9	Atrazine	39.9	U	39.9	200	ug/Kg
87-86-5	Pentachlorophenol	60.3	U	60.3	390	ug/Kg
85-01-8	Phenanthrene	24.6	U	24.6	200	ug/Kg
120-12-7	Anthracene	39.1	U	39.1	200	ug/Kg
86-74-8	Carbazole	36.7	U	36.7	200	ug/Kg
84-74-2	Di-n-butylphthalate	56.3	U	56.3	200	ug/Kg
206-44-0	Fluoranthene	35.2	U	35.2	200	ug/Kg
129-00-0	Pyrene	42.3	U	42.3	200	ug/Kg
85-68-7	Butylbenzylphthalate	83.9	UQ	83.9	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	43.1	U	43.1	390	ug/Kg
56-55-3	Benzo(a)anthracene	27.0	U	27.0	200	ug/Kg
218-01-9	Chrysene	23.4	U	23.4	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	69.6	U	69.6	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	22.3	U	22.3	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23	SDG No.:	Q2543
Lab Sample ID:	Q2543-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85
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
BM050402.D	1	07/10/25 09:55	07/10/25 23:19	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	26.3	U	26.3	200	ug/Kg
50-32-8	Benzo(a)pyrene	34.7	UQ	34.7	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	34.2	UQ	34.2	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	32.2	U	32.2	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	30.2	U	30.2	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	30.1	U	30.1	200	ug/Kg
123-91-1	1,4-Dioxane	53.1	U	53.1	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	32.2	U	32.2	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	79.6		18 - 112	53%	SPK: 150
13127-88-3	Phenol-d6	80.4		15 - 107	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	47.2		18 - 107	47%	SPK: 100
321-60-8	2-Fluorobiphenyl	40.8		20 - 109	41%	SPK: 100
118-79-6	2,4,6-Tribromophenol	87.6		10 - 116	58%	SPK: 150
1718-51-0	Terphenyl-d14	46.6		10 - 105	47%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	581000	7.863			
1146-65-2	Naphthalene-d8	2130000	10.657			
15067-26-2	Acenaphthene-d10	1370000	14.492			
1517-22-2	Phenanthrene-d10	2790000	17.221			
1719-03-5	Chrysene-d12	3010000	21.445			
1520-96-3	Perylene-d12	2990000	24.485			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	410	J		3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	170	AB		4.97	ug/Kg
000119-61-9	Benzophenone	230	J		15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	120	J		18.1	ug/Kg
074685-30-6	5-Eicosene, (E)-	79.9	J		21.1	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23	SDG No.:	Q2543
Lab Sample ID:	Q2543-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85
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
BM050402.D	1	07/10/25 09:55	07/10/25 23:19	PB168787

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:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23-99	SDG No.:	Q2543
Lab Sample ID:	Q2543-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.4
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
BM050403.D	1	07/10/25 09:55	07/10/25 23:59	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	390	ug/Kg
108-95-2	Phenol	25.9	U	25.9	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	28.4	U	28.4	200	ug/Kg
95-57-8	2-Chlorophenol	28.5	U	28.5	200	ug/Kg
95-48-7	2-Methylphenol	35.0	U	35.0	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	43.9	U	43.9	200	ug/Kg
98-86-2	Acetophenone	34.5	U	34.5	200	ug/Kg
65794-96-9	3+4-Methylphenols	48.1	U	48.1	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	55.4	U	55.4	93.6	ug/Kg
67-72-1	Hexachloroethane	20.6	U	20.6	200	ug/Kg
98-95-3	Nitrobenzene	21.4	U	21.4	200	ug/Kg
78-59-1	Isophorone	38.4	U	38.4	200	ug/Kg
88-75-5	2-Nitrophenol	68.1	U	68.1	200	ug/Kg
105-67-9	2,4-Dimethylphenol	75.8	U	75.8	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	36.0	U	36.0	200	ug/Kg
120-83-2	2,4-Dichlorophenol	33.1	U	33.1	200	ug/Kg
91-20-3	Naphthalene	26.6	U	26.6	200	ug/Kg
106-47-8	4-Chloroaniline	41.4	U	41.4	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.6	UQ	29.6	200	ug/Kg
105-60-2	Caprolactam	60.9	U	60.9	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	33.6	U	33.6	200	ug/Kg
91-57-6	2-Methylnaphthalene	29.9	U	29.9	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	UQ	140	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.2	UQ	23.2	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	34.0	UQ	34.0	200	ug/Kg
92-52-4	1,1-Biphenyl	25.5	U	25.5	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.3	U	26.3	200	ug/Kg
88-74-4	2-Nitroaniline	56.3	U	56.3	200	ug/Kg
131-11-3	Dimethylphthalate	31.7	U	31.7	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23-99	SDG No.:	Q2543
Lab Sample ID:	Q2543-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.4
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
BM050403.D	1	07/10/25 09:55	07/10/25 23:59	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	33.8	U	33.8	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	39.3	U	39.3	200	ug/Kg
99-09-2	3-Nitroaniline	53.8	U	53.8	200	ug/Kg
83-32-9	Acenaphthene	24.9	U	24.9	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	26.6	U	26.6	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	58.6	U	58.6	200	ug/Kg
84-66-2	Diethylphthalate	33.1	U	33.1	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.2	U	31.2	200	ug/Kg
86-73-7	Fluorene	29.6	U	29.6	200	ug/Kg
100-01-6	4-Nitroaniline	75.1	U	75.1	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	UQ	120	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	38.5	U	38.5	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	32.5	U	32.5	200	ug/Kg
118-74-1	Hexachlorobenzene	29.6	UQ	29.6	200	ug/Kg
1912-24-9	Atrazine	39.8	U	39.8	200	ug/Kg
87-86-5	Pentachlorophenol	60.0	U	60.0	390	ug/Kg
85-01-8	Phenanthrene	24.4	U	24.4	200	ug/Kg
120-12-7	Anthracene	39.0	U	39.0	200	ug/Kg
86-74-8	Carbazole	36.5	U	36.5	200	ug/Kg
84-74-2	Di-n-butylphthalate	56.0	U	56.0	200	ug/Kg
206-44-0	Fluoranthene	35.1	U	35.1	200	ug/Kg
129-00-0	Pyrene	42.1	U	42.1	200	ug/Kg
85-68-7	Butylbenzylphthalate	83.5	UQ	83.5	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	42.9	U	42.9	390	ug/Kg
56-55-3	Benzo(a)anthracene	26.9	U	26.9	200	ug/Kg
218-01-9	Chrysene	23.3	U	23.3	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	69.3	U	69.3	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	22.2	U	22.2	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23-99	SDG No.:	Q2543
Lab Sample ID:	Q2543-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.4
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
BM050403.D	1	07/10/25 09:55	07/10/25 23:59	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	26.2	U	26.2	200	ug/Kg
50-32-8	Benzo(a)pyrene	34.5	UQ	34.5	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	34.0	UQ	34.0	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	32.1	U	32.1	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	30.1	U	30.1	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.9	U	29.9	200	ug/Kg
123-91-1	1,4-Dioxane	52.9	U	52.9	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	32.1	U	32.1	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	83.1		18 - 112	55%	SPK: 150
13127-88-3	Phenol-d6	83.7		15 - 107	56%	SPK: 150
4165-60-0	Nitrobenzene-d5	49.7		18 - 107	50%	SPK: 100
321-60-8	2-Fluorobiphenyl	44.0		20 - 109	44%	SPK: 100
118-79-6	2,4,6-Tribromophenol	90.5		10 - 116	60%	SPK: 150
1718-51-0	Terphenyl-d14	50.5		10 - 105	50%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	639000	7.863			
1146-65-2	Naphthalene-d8	2330000	10.657			
15067-26-2	Acenaphthene-d10	1500000	14.486			
1517-22-2	Phenanthrene-d10	3030000	17.221			
1719-03-5	Chrysene-d12	3160000	21.444			
1520-96-3	Perylene-d12	2930000	24.48			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	430	J		3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	180	AB		4.97	ug/Kg
000119-61-9	Benzophenone	220	J		15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	110	J		18.1	ug/Kg
018435-45-5	1-Nonadecene	83.4	J		21.1	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	07/09/25
Project:	South River WM Replacement			Date Received:	07/09/25
Client Sample ID:	TP-23-99			SDG No.:	Q2543
Lab Sample ID:	Q2543-04			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	85.4
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
BM050403.D	1	07/10/25 09:55	07/10/25 23:59	PB168787

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

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Surrogate Summary

SW-846

SDG No.: Q2543

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB168787BL	PB168787BL	2-Fluorophenol	150	134	90		18	112
		Phenol-d6	150	126	84		15	107
		Nitrobenzene-d5	100	92.7	93		18	107
		2-Fluorobiphenyl	100	90.6	91		20	109
		2,4,6-Tribromophenol	150	155	103		10	116
		Terphenyl-d14	100	91.8	92		10	105
PB168787BS	PB168787BS	2-Fluorophenol	150	141	94		18	112
		Phenol-d6	150	118	78		15	107
		Nitrobenzene-d5	100	90.9	91		18	107
		2-Fluorobiphenyl	100	87.5	87		20	109
		2,4,6-Tribromophenol	150	149	99		10	116
		Terphenyl-d14	100	95.8	96		10	105
Q2543-01	TP-41	2-Fluorophenol	150	88.4	59		18	112
		Phenol-d6	150	77.1	51		15	107
		Nitrobenzene-d5	100	50.2	50		18	107
		2-Fluorobiphenyl	100	46.0	46		20	109
		2,4,6-Tribromophenol	150	93.6	62		10	116
		Terphenyl-d14	100	51.0	51		10	105
Q2543-02	TP-49	2-Fluorophenol	150	126	84		18	112
		Phenol-d6	150	128	85		15	107
		Nitrobenzene-d5	100	75.8	76		18	107
		2-Fluorobiphenyl	100	72.3	72		20	109
		2,4,6-Tribromophenol	150	145	97		10	116
		Terphenyl-d14	100	69.8	70		10	105
Q2543-02MS	TP-49MS	2-Fluorophenol	150	100	67		18	112
		Phenol-d6	150	101	67		15	107
		Nitrobenzene-d5	100	59.9	60		18	107
		2-Fluorobiphenyl	100	57.5	58		20	109
		2,4,6-Tribromophenol	150	116	77		10	116
		Terphenyl-d14	100	71.0	71		10	105
Q2543-02MSD	TP-49MSD	2-Fluorophenol	150	96.6	64		18	112
		Phenol-d6	150	96.5	64		15	107
		Nitrobenzene-d5	100	59.3	59		18	107
		2-Fluorobiphenyl	100	57.6	58		20	109
		2,4,6-Tribromophenol	150	109	73		10	116
		Terphenyl-d14	100	70.1	70		10	105
Q2543-03	TP-23	2-Fluorophenol	150	79.6	53		18	112
		Phenol-d6	150	80.4	54		15	107
		Nitrobenzene-d5	100	47.2	47		18	107
		2-Fluorobiphenyl	100	40.8	41		20	109
		2,4,6-Tribromophenol	150	87.6	58		10	116
		Terphenyl-d14	100	46.6	47		10	105
Q2543-04	TP-23-99	2-Fluorophenol	150	83.1	55		18	112
		Phenol-d6	150	83.7	56		15	107
		Nitrobenzene-d5	100	49.7	50		18	107
		2-Fluorobiphenyl	100	44.0	44		20	109
		2,4,6-Tribromophenol	150	90.5	60		10	116
		Terphenyl-d14	100	50.5	50		10	105

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2543 **Analytical Method:** SW8270E

Client: CDM Smith **DataFile:** BM050395.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2543-02MS		**Client Sample ID: TP-49MS**									
Benzaldehyde	2300	0	2000	ug/Kg	87				10	171	
Phenol	2300	0	2100	ug/Kg	91				51	122	
bis(2-Chloroethyl)ether	2300	0	2000	ug/Kg	87				54	125	
2-Chlorophenol	2300	0	2100	ug/Kg	91				51	121	
2-Methylphenol	2300	0	2100	ug/Kg	91				47	125	
2,2-oxybis(1-Chloropropane)	2300	0	1900	ug/Kg	83				46	119	
Acetophenone	2300	0	2000	ug/Kg	87				55	128	
3+4-Methylphenols	2300	0	2100	ug/Kg	91				49	125	
N-Nitroso-di-n-propylamine	2300	0	2100	ug/Kg	91				59	119	
Hexachloroethane	2300	0	1900	ug/Kg	83				51	116	
Nitrobenzene	2300	0	2000	ug/Kg	87				47	124	
Isophorone	2300	0	2100	ug/Kg	91				49	127	
2-Nitrophenol	2300	0	2300	ug/Kg	100				43	131	
2,4-Dimethylphenol	2300	0	2100	ug/Kg	91				63	151	
bis(2-Chloroethoxy)methane	2300	0	2000	ug/Kg	87				51	119	
2,4-Dichlorophenol	2300	0	2200	ug/Kg	96				50	122	
Naphthalene	2300	0	2000	ug/Kg	87				51	121	
4-Chloroaniline	2300	0	600	ug/Kg	26				10	100	
Hexachlorobutadiene	2300	0	2000	ug/Kg	87				44	126	
Caprolactam	2300	0	2200	ug/Kg	96				51	134	
4-Chloro-3-methylphenol	2300	0	2200	ug/Kg	96				57	132	
2-Methylnaphthalene	2300	0	2100	ug/Kg	91				59	123	
Hexachlorocyclopentadiene	4500	0	4200	ug/Kg	93				10	175	
2,4,6-Trichlorophenol	2300	0	2200	ug/Kg	96				33	141	
2,4,5-Trichlorophenol	2300	0	2200	ug/Kg	96				38	135	
1,1-Biphenyl	2300	0	2000	ug/Kg	87				55	131	
2-Chloronaphthalene	2300	0	2000	ug/Kg	87				48	124	
2-Nitroaniline	2300	0	2200	ug/Kg	96				47	134	
Dimethylphthalate	2300	0	2100	ug/Kg	91				54	120	
Acenaphthylene	2300	0	2100	ug/Kg	91				57	125	
2,6-Dinitrotoluene	2300	0	2200	ug/Kg	96				48	127	
3-Nitroaniline	2300	0	990	ug/Kg	43				10	112	
Acenaphthene	2300	0	2200	ug/Kg	96				70	121	
2,4-Dinitrophenol	4500	0	3700	ug/Kg	82				10	155	
4-Nitrophenol	4500	0	4600	ug/Kg	102				10	175	
Dibenzofuran	2300	0	2000	ug/Kg	87				52	114	
2,4-Dinitrotoluene	2300	0	2100	ug/Kg	91				41	140	
Diethylphthalate	2300	0	2100	ug/Kg	91				51	119	
4-Chlorophenyl-phenylether	2300	0	2100	ug/Kg	91				48	122	
Fluorene	2300	0	2100	ug/Kg	91				53	118	
4-Nitroaniline	2300	0	1900	ug/Kg	83				29	140	
4,6-Dinitro-2-methylphenol	2300	0	1900	ug/Kg	83				10	160	
N-Nitrosodiphenylamine	2300	0	2100	ug/Kg	91				73	118	
4-Bromophenyl-phenylether	2300	0	2200	ug/Kg	96				65	121	
Hexachlorobenzene	2300	0	2100	ug/Kg	91				67	118	
Atrazine	2300	0	2300	ug/Kg	100				45	175	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2543 **Analytical Method:** SW8270E

Client: CDM Smith **DataFile:** BM050395.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Pentachlorophenol	4500	0	4600	ug/Kg	102				13	153	
Phenanthrene	2300	0	2100	ug/Kg	91				52	128	
Anthracene	2300	0	2100	ug/Kg	91				62	124	
Carbazole	2300	0	2100	ug/Kg	91				59	119	
Di-n-butylphthalate	2300	0	2300	ug/Kg	100				55	125	
Fluoranthene	2300	310	2400	ug/Kg	91				44	125	
Pyrene	2300	250	2700	ug/Kg	107				37	122	
Butylbenzylphthalate	2300	0	2700	ug/Kg	117				44	135	
3,3-Dichlorobenzidine	2300	0	1000	ug/Kg	43				15	112	
Benzo(a)anthracene	2300	150	2300	ug/Kg	93				53	119	
Chrysene	2300	170	2200	ug/Kg	88				57	121	
bis(2-Ethylhexyl)phthalate	2300	0	2600	ug/Kg	113				42	169	
Di-n-octyl phthalate	2300	0	2400	ug/Kg	104				51	156	
Benzo(b)fluoranthene	2300	250	2400	ug/Kg	93				52	117	
Benzo(k)fluoranthene	2300	92.6	2200	ug/Kg	92				57	134	
Benzo(a)pyrene	2300	170	2300	ug/Kg	93				70	142	
Indeno(1,2,3-cd)pyrene	2300	0	2100	ug/Kg	91				40	129	
Dibenz(a,h)anthracene	2300	0	2000	ug/Kg	87				43	123	
Benzo(g,h,i)perylene	2300	96.1	2100	ug/Kg	87				24	125	
1,2,4,5-Tetrachlorobenzene	2300	0	2100	ug/Kg	91				52	134	
1,4-Dioxane	2300	0	1600	ug/Kg	70				46	112	
2,3,4,6-Tetrachlorophenol	2300	0	2300	ug/Kg	100				24	146	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2543 **Analytical Method:** SW8270E

Client: CDM Smith **DataFile:** BM050396.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2543-02MSD		**Client Sample ID: TP-49MSD**									
Benzaldehyde	2300	0	1900	ug/Kg	83		5		10	171	20
Phenol	2300	0	2000	ug/Kg	87		4		51	122	20
bis(2-Chloroethyl)ether	2300	0	1900	ug/Kg	83		5		54	125	20
2-Chlorophenol	2300	0	2000	ug/Kg	87		4		51	121	20
2-Methylphenol	2300	0	2000	ug/Kg	87		4		47	125	20
2,2-oxybis(1-Chloropropane)	2300	0	1800	ug/Kg	78		6		46	119	20
Acetophenone	2300	0	1900	ug/Kg	83		5		55	128	20
3+4-Methylphenols	2300	0	2000	ug/Kg	87		4		49	125	20
N-Nitroso-di-n-propylamine	2300	0	1900	ug/Kg	83		9		59	119	20
Hexachloroethane	2300	0	1900	ug/Kg	83		0		51	116	20
Nitrobenzene	2300	0	2000	ug/Kg	87		0		47	124	20
Isophorone	2300	0	2000	ug/Kg	87		4		49	127	20
2-Nitrophenol	2300	0	2300	ug/Kg	100		0		43	131	20
2,4-Dimethylphenol	2300	0	2100	ug/Kg	91		0		63	151	20
bis(2-Chloroethoxy)methane	2300	0	2000	ug/Kg	87		0		51	119	20
2,4-Dichlorophenol	2300	0	2100	ug/Kg	91		5		50	122	20
Naphthalene	2300	0	1900	ug/Kg	83		5		51	121	20
4-Chloroaniline	2300	0	640	ug/Kg	28		7		10	100	20
Hexachlorobutadiene	2300	0	2000	ug/Kg	87		0		44	126	20
Caprolactam	2300	0	2100	ug/Kg	91		5		51	134	20
4-Chloro-3-methylphenol	2300	0	2100	ug/Kg	91		5		57	132	20
2-Methylnaphthalene	2300	0	2000	ug/Kg	87		4		59	123	20
Hexachlorocyclopentadiene	4500	0	4200	ug/Kg	93		0		10	175	20
2,4,6-Trichlorophenol	2300	0	2200	ug/Kg	96		0		33	141	20
2,4,5-Trichlorophenol	2300	0	2200	ug/Kg	96		0		38	135	20
1,1-Biphenyl	2300	0	2000	ug/Kg	87		0		55	131	20
2-Chloronaphthalene	2300	0	2000	ug/Kg	87		0		48	124	20
2-Nitroaniline	2300	0	2200	ug/Kg	96		0		47	134	20
Dimethylphthalate	2300	0	2000	ug/Kg	87		4		54	120	20
Acenaphthylene	2300	0	2100	ug/Kg	91		0		57	125	20
2,6-Dinitrotoluene	2300	0	2200	ug/Kg	96		0		48	127	20
3-Nitroaniline	2300	0	940	ug/Kg	41		5		10	112	20
Acenaphthene	2300	0	2100	ug/Kg	91		5		70	121	20
2,4-Dinitrophenol	4500	0	3500	ug/Kg	78		5		10	155	20
4-Nitrophenol	4500	0	4300	ug/Kg	96		6		10	175	20
Dibenzofuran	2300	0	2000	ug/Kg	87		0		52	114	20
2,4-Dinitrotoluene	2300	0	2000	ug/Kg	87		4		41	140	20
Diethylphthalate	2300	0	2000	ug/Kg	87		4		51	119	20
4-Chlorophenyl-phenylether	2300	0	2000	ug/Kg	87		4		48	122	20
Fluorene	2300	0	2000	ug/Kg	87		4		53	118	20
4-Nitroaniline	2300	0	1800	ug/Kg	78		6		29	140	20
4,6-Dinitro-2-methylphenol	2300	0	1900	ug/Kg	83		0		10	160	20
N-Nitrosodiphenylamine	2300	0	2100	ug/Kg	91		0		73	118	20
4-Bromophenyl-phenylether	2300	0	2200	ug/Kg	96		0		65	121	20
Hexachlorobenzene	2300	0	2100	ug/Kg	91		0		67	118	20
Atrazine	2300	0	2200	ug/Kg	96		4		45	175	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2543 **Analytical Method:** SW8270E

Client: CDM Smith **DataFile:** BM050396.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	4500	0	4500	ug/Kg	100		2		13	153	20
Phenanthrene	2300	0	2000	ug/Kg	87		4		52	128	20
Anthracene	2300	0	2100	ug/Kg	91		0		62	124	20
Carbazole	2300	0	2000	ug/Kg	87		4		59	119	20
Di-n-butylphthalate	2300	0	2200	ug/Kg	96		4		55	125	20
Fluoranthene	2300	310	2200	ug/Kg	82		10		44	125	20
Pyrene	2300	250	2600	ug/Kg	102		5		37	122	20
Butylbenzylphthalate	2300	0	2600	ug/Kg	113		3		44	135	20
3,3-Dichlorobenzidine	2300	0	1100	ug/Kg	48		11		15	112	20
Benzo(a)anthracene	2300	150	2200	ug/Kg	89		4		53	119	20
Chrysene	2300	170	2200	ug/Kg	88		0		57	121	20
bis(2-Ethylhexyl)phthalate	2300	0	2400	ug/Kg	104		8		42	169	20
Di-n-octyl phthalate	2300	0	2400	ug/Kg	104		0		51	156	20
Benzo(b)fluoranthene	2300	250	2300	ug/Kg	89		4		52	117	20
Benzo(k)fluoranthene	2300	92.6	2200	ug/Kg	92		0		57	134	20
Benzo(a)pyrene	2300	170	2300	ug/Kg	93		0		70	142	20
Indeno(1,2,3-cd)pyrene	2300	0	2200	ug/Kg	96		5		40	129	20
Dibenz(a,h)anthracene	2300	0	2100	ug/Kg	91		4		43	123	20
Benzo(g,h,i)perylene	2300	96.1	2200	ug/Kg	91		4		24	125	20
1,2,4,5-Tetrachlorobenzene	2300	0	2100	ug/Kg	91		0		52	134	20
1,4-Dioxane	2300	0	1600	ug/Kg	70		0		46	112	20
2,3,4,6-Tetrachlorophenol	2300	0	2200	ug/Kg	96		4		24	146	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2543 **Analytical Method:** 8270E

Client: CDM Smith **DataFile:** BP025140.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB168787BS	Benzaldehyde	1700	1500	ug/Kg	88				10	133	
	Phenol	1700	1500	ug/Kg	88				62	112	
	bis(2-Chloroethyl)ether	1700	1400	ug/Kg	82				60	101	
	2-Chlorophenol	1700	1600	ug/Kg	94				65	112	
	2-Methylphenol	1700	1600	ug/Kg	94				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1400	ug/Kg	82				51	100	
	Acetophenone	1700	1400	ug/Kg	82				66	98	
	3+4-Methylphenols	1700	1500	ug/Kg	88				58	111	
	N-Nitroso-di-n-propylamine	1700	1400	ug/Kg	82				63	95	
	Hexachloroethane	1700	1600	ug/Kg	94				72	108	
	Nitrobenzene	1700	1600	ug/Kg	94				57	101	
	Isophorone	1700	1600	ug/Kg	94				59	99	
	2-Nitrophenol	1700	1800	ug/Kg	106				61	111	
	2,4-Dimethylphenol	1700	2200	ug/Kg	129				46	141	
	bis(2-Chloroethoxy)methane	1700	1500	ug/Kg	88				66	97	
	2,4-Dichlorophenol	1700	1600	ug/Kg	94				62	107	
	Naphthalene	1700	1500	ug/Kg	88				62	100	
	4-Chloroaniline	1700	910	ug/Kg	54				16	100	
	Hexachlorobutadiene	1700	1700	ug/Kg	100		*		53	98	
	Caprolactam	1700	1500	ug/Kg	88				67	110	
	4-Chloro-3-methylphenol	1700	1500	ug/Kg	88				58	112	
	2-Methylnaphthalene	1700	1300	ug/Kg	76				60	104	
	Hexachlorocyclopentadiene	3300	8000	ug/Kg	242		*		45	165	
	2,4,6-Trichlorophenol	1700	1800	ug/Kg	106		*		59	102	
	2,4,5-Trichlorophenol	1700	1700	ug/Kg	100		*		61	98	
	1,1-Biphenyl	1700	1500	ug/Kg	88				57	103	
	2-Chloronaphthalene	1700	1600	ug/Kg	94				58	99	
	2-Nitroaniline	1700	1600	ug/Kg	94				66	101	
	Dimethylphthalate	1700	1500	ug/Kg	88				61	99	
	Acenaphthylene	1700	1700	ug/Kg	100				63	101	
	2,6-Dinitrotoluene	1700	1700	ug/Kg	100				61	104	
	3-Nitroaniline	1700	1100	ug/Kg	65				28	100	
	Acenaphthene	1700	1500	ug/Kg	88				57	104	
	2,4-Dinitrophenol	3300	4000	ug/Kg	121				37	128	
	4-Nitrophenol	3300	3300	ug/Kg	100				48	119	
	Dibenzofuran	1700	1400	ug/Kg	82				63	99	
	2,4-Dinitrotoluene	1700	1700	ug/Kg	100				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	1600	ug/Kg	94				64	103	
	4,6-Dinitro-2-methylphenol	1700	2000	ug/Kg	118		*		76	113	
	N-Nitrosodiphenylamine	1700	1600	ug/Kg	94				71	99	
	4-Bromophenyl-phenylether	1700	1700	ug/Kg	100				66	102	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2543 **Analytical Method:** 8270E

Client: CDM Smith **DataFile:** BP025140.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168787BS	Hexachlorobenzene	1700	1700	ug/Kg	100		*		64	98	
	Atrazine	1700	2100	ug/Kg	124				47	152	
	Pentachlorophenol	3300	3400	ug/Kg	103				67	105	
	Phenanthrene	1700	1600	ug/Kg	94				59	103	
	Anthracene	1700	1600	ug/Kg	94				61	105	
	Carbazole	1700	1600	ug/Kg	94				61	99	
	Di-n-butylphthalate	1700	1700	ug/Kg	100				58	104	
	Fluoranthene	1700	1600	ug/Kg	94				57	107	
	Pyrene	1700	1600	ug/Kg	94				59	103	
	Butylbenzylphthalate	1700	1800	ug/Kg	106		*		55	103	
	3,3-Dichlorobenzidine	1700	1400	ug/Kg	82				42	91	
	Benzo(a)anthracene	1700	1600	ug/Kg	94				60	102	
	Chrysene	1700	1600	ug/Kg	94				59	101	
	bis(2-Ethylhexyl)phthalate	1700	1900	ug/Kg	112				54	135	
	Di-n-octyl phthalate	1700	1800	ug/Kg	106				52	137	
	Benzo(b)fluoranthene	1700	1500	ug/Kg	88				62	109	
	Benzo(k)fluoranthene	1700	1600	ug/Kg	94				62	109	
	Benzo(a)pyrene	1700	1800	ug/Kg	106		*		63	103	
	Indeno(1,2,3-cd)pyrene	1700	1800	ug/Kg	106		*		63	101	
	Dibenz(a,h)anthracene	1700	1800	ug/Kg	106				61	112	
	Benzo(g,h,i)perylene	1700	1700	ug/Kg	100				70	108	
	1,2,4,5-Tetrachlorobenzene	1700	1600	ug/Kg	94				53	101	
	1,4-Dioxane	1700	1300	ug/Kg	76				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1700	ug/Kg	100				59	108	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID: PB168787BL

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2543

Lab File ID: BP025099.D | Lab Sample ID: PB168787BL

Instrument ID: BNA_P | Date Extracted: 07/10/2025

Matrix: (soil/water) SOIL | Date Analyzed: 07/11/2025

Level: (low/med) LOW | Time Analyzed: 11:08

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168787BS	PB168787BS	BP025140.D	07/15/2025
TP-41	Q2543-01	BP025143.D	07/15/2025
TP-49	Q2543-02	BM050394.D	07/10/2025
TP-49MS	Q2543-02MS	BM050395.D	07/10/2025
TP-49MSD	Q2543-02MSD	BM050396.D	07/10/2025
TP-23	Q2543-03	BM050402.D	07/10/2025
TP-23-99	Q2543-04	BM050403.D	07/10/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2543

Lab File ID: BM050376.D | DFTPP Injection Date: 07/08/2025

Instrument ID: BNA_M | DFTPP Injection Time: 11:59

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.5) 1
69	Mass 69 relative abundance	33.9
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	10.5
442	Greater than 50% of mass 198	66.5
443	15.0 - 24.0% of mass 442	12.9 (19.4) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BM050377.D	07/08/2025	12:39
SSTDICC005	SSTDICC005	BM050378.D	07/08/2025	13:19
SSTDICC010	SSTDICC010	BM050379.D	07/08/2025	14:00
SSTDICC020	SSTDICC020	BM050380.D	07/08/2025	14:40
SSTDICCC040	SSTDICCC040	BM050381.D	07/08/2025	15:20
SSTDICC050	SSTDICC050	BM050382.D	07/08/2025	16:01
SSTDICC060	SSTDICC060	BM050383.D	07/08/2025	16:41
SSTDICC080	SSTDICC080	BM050384.D	07/08/2025	17:22

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2543

Lab File ID: BM050387.D | DFTPP Injection Date: 07/10/2025

Instrument ID: BNA_M | DFTPP Injection Time: 13:13

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.5) 1
69	Mass 69 relative abundance	33.1
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	10.4
442	Greater than 50% of mass 198	68
443	15.0 - 24.0% of mass 442	13.2 (19.5) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BM050388.D	07/10/2025	13:53
TP-49	Q2543-02	BM050394.D	07/10/2025	17:58
TP-49MS	Q2543-02MS	BM050395.D	07/10/2025	18:38
TP-49MSD	Q2543-02MSD	BM050396.D	07/10/2025	19:18
TP-23	Q2543-03	BM050402.D	07/10/2025	23:19
TP-23-99	Q2543-04	BM050403.D	07/10/2025	23:59

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2543

Lab File ID: BP025070.D DFTPP Injection Date: 07/03/2025

Instrument ID: BNA_P DFTPP Injection Time: 08:58

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.7) 1
69	Mass 69 relative abundance	31.4
70	Less than 2.0% of mass 69	0.1 (0.4) 1
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	14.3
442	Greater than 50% of mass 198	92.8
443	15.0 - 24.0% of mass 442	18 (19.4) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BP025071.D	07/03/2025	09:39
SSTDICC005	SSTDICC005	BP025072.D	07/03/2025	10:21
SSTDICC010	SSTDICC010	BP025073.D	07/03/2025	11:02
SSTDICC020	SSTDICC020	BP025074.D	07/03/2025	11:44
SSTDICCC040	SSTDICCC040	BP025075.D	07/03/2025	12:25
SSTDICC050	SSTDICC050	BP025076.D	07/03/2025	13:07
SSTDICC060	SSTDICC060	BP025077.D	07/03/2025	13:49
SSTDICC080	SSTDICC080	BP025078.D	07/03/2025	14:31

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2543

Lab File ID: BP025097.D DFTPP Injection Date: 07/11/2025

Instrument ID: BNA_P DFTPP Injection Time: 09:04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.7) 1
69	Mass 69 relative abundance	30
70	Less than 2.0% of mass 69	0.1 (0.5) 1
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	14.5
442	Greater than 50% of mass 198	94.3
443	15.0 - 24.0% of mass 442	18.4 (19.5) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BP025098.D	07/11/2025	10:26
PB168787BL	PB168787BL	BP025099.D	07/11/2025	11:08

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2543

Lab File ID: BP025137.D DFTPP Injection Date: 07/15/2025

Instrument ID: BNA_P DFTPP Injection Time: 08:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.7) 1
69	Mass 69 relative abundance	29.9
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	14.5
442	Greater than 50% of mass 198	92.6
443	15.0 - 24.0% of mass 442	18.1 (19.6) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BP025138.D	07/15/2025	09:36
PB168787BS	PB168787BS	BP025140.D	07/15/2025	10:58
TP-41	Q2543-01	BP025143.D	07/15/2025	13:07

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2543

Client ID : SSTDCCC040 Date Analyzed: 07/10/2025

Lab File ID: BM050388.D Time Analyzed: 13:53

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	446689	7.863	1689420	10.66	1077980	14.49
	UPPER LIMIT	893378	8.363	3378840	11.157	2155960	14.992
	LOWER LIMIT	223345	7.363	844710	10.157	538990	13.992
	EPA SAMPLE NO.						
01	TP-49	577892	7.86	2139760	10.66	1403470	14.49
02	TP-49MS	627832	7.86	2379650	10.66	1542630	14.49
03	TP-49MSD	614645	7.86	2249890	10.66	1411020	14.49
04	TP-23	581438	7.86	2127800	10.66	1370950	14.49
05	TP-23-99	639438	7.86	2330150	10.66	1499850	14.49

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.: Q2543

Client ID: SSTDCCC040 Date Analyzed: 07/10/2025

Lab File ID: BM050388.D Time Analyzed: 13:53

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	2057470	17.227	2112610	21.45	2045330	24.491
	UPPER LIMIT	4114940	17.727	4225220	21.95	4090660	24.991
	LOWER LIMIT	1028740	16.727	1056310	20.95	1022670	23.991
	EPA SAMPLE NO.						
01	TP-49	2861160	17.22	3176120	21.45	2913680	24.49
02	TP-49MS	3030620	17.23	2721660	21.46	2168250	24.49
03	TP-49MSD	2620470	17.23	2225730	21.45	2052960	24.49
04	TP-23	2792860	17.22	3011880	21.45	2989150	24.49
05	TP-23-99	3029760	17.22	3157430	21.44	2929700	24.48

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.: Q2543

Client ID : SSTDCCC040 Date Analyzed: 07/11/2025

Lab File ID: BP025098.D Time Analyzed: 10:26

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	436580	7.437	1693300	10.18	1072860	14.10
	UPPER LIMIT	873160	7.937	3386600	10.684	2145720	14.595
	LOWER LIMIT	218290	6.937	846650	9.684	536430	13.595
	EPA SAMPLE NO.						
01	PB168787BL	435629	7.44	1705700	10.18	1062770	14.08

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.: Q2543

Client ID: SSTDCCC040 Date Analyzed: 07/11/2025

Lab File ID: BP025098.D Time Analyzed: 10:26

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	2205220	16.907	2437720	21.342	2833280	24.465
	UPPER LIMIT	4410440	17.407	4875440	21.842	5666560	24.965
	LOWER LIMIT	1102610	16.407	1218860	20.842	1416640	23.965
	EPA SAMPLE NO.						
01	PB168787BL	2270220	16.90	2488980	21.34	2769160	24.46

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.: Q2543

Client ID : SSTDCCC040 Date Analyzed: 07/15/2025

Lab File ID: BP025138.D Time Analyzed: 09:36

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	539286	7.443	1912690	10.18	1092260	14.08
	UPPER LIMIT	1078570	7.943	3825380	10.684	2184520	14.584
	LOWER LIMIT	269643	6.943	956345	9.684	546130	13.584
	EPA SAMPLE NO.						
01	PB168787BS	578947	7.44	2205740	10.18	1344570	14.08
02	TP-41	556317	7.44	2503670	10.19	1662470	14.10

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.: Q2543

Client ID: SSTDCCC040 Date Analyzed: 07/15/2025

Lab File ID: BP025138.D Time Analyzed: 09:36

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	2112950	16.89	2423210	21.336	2977610	24.466
	UPPER LIMIT	4225900	17.39	4846420	21.836	5955220	24.966
	LOWER LIMIT	1056480	16.39	1211610	20.836	1488810	23.966
	EPA SAMPLE NO.						
01	PB168787BS	2600630	16.90	2649430	21.35	2985170	24.47
02	TP-41	3076520	16.92	3157080	21.34	3825650	24.46

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168787BL	SDG No.:	Q2543
Lab Sample ID:	PB168787BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.02 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
BP025099.D	1	07/10/25 09:55	07/11/25 11:08	PB168787

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	79.9	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:	PB168787BL	SDG No.:	Q2543
Lab Sample ID:	PB168787BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.02 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
BP025099.D	1	07/10/25 09:55	07/11/25 11:08	PB168787

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	86.7	U	86.7	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:	PB168787BL	SDG No.:	Q2543
Lab Sample ID:	PB168787BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.02 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
BP025099.D	1	07/10/25 09:55	07/11/25 11:08	PB168787

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	134		18 - 112	90%	SPK: 150
13127-88-3	Phenol-d6	126		15 - 107	84%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.7		18 - 107	93%	SPK: 100
321-60-8	2-Fluorobiphenyl	90.6		20 - 109	91%	SPK: 100
118-79-6	2,4,6-Tribromophenol	155		10 - 116	103%	SPK: 150
1718-51-0	Terphenyl-d14	91.8		10 - 105	92%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	436000	7.437			
1146-65-2	Naphthalene-d8	1710000	10.184			
15067-26-2	Acenaphthene-d10	1060000	14.084			
1517-22-2	Phenanthrene-d10	2270000	16.901			
1719-03-5	Chrysene-d12	2490000	21.336			
1520-96-3	Perylene-d12	2770000	24.46			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	230	A		4.66	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	
Project:	South River WM Replacement			Date Received:	
Client Sample ID:	PB168787BL			SDG No.:	Q2543
Lab Sample ID:	PB168787BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.02	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
BP025099.D	1	07/10/25 09:55	07/11/25 11:08	PB168787

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:	PB168787BS	SDG No.:	Q2543
Lab Sample ID:	PB168787BS	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
BP025140.D	1	07/10/25 09:55	07/15/25 10:58	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1500		160	330	ug/Kg
108-95-2	Phenol	1500		22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1400		24.3	170	ug/Kg
95-57-8	2-Chlorophenol	1600		24.4	170	ug/Kg
95-48-7	2-Methylphenol	1600		29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1400		37.5	170	ug/Kg
98-86-2	Acetophenone	1400		29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	1500		41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		47.4	80.0	ug/Kg
67-72-1	Hexachloroethane	1600		17.6	170	ug/Kg
98-95-3	Nitrobenzene	1600		18.3	170	ug/Kg
78-59-1	Isophorone	1600		32.8	170	ug/Kg
88-75-5	2-Nitrophenol	1800		58.2	170	ug/Kg
105-67-9	2,4-Dimethylphenol	2200		64.8	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		28.3	170	ug/Kg
91-20-3	Naphthalene	1500		22.7	170	ug/Kg
106-47-8	4-Chloroaniline	910		35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	1700		25.3	170	ug/Kg
105-60-2	Caprolactam	1500		52.1	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1500		28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	1300		25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	8000	E	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1800		19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1700		29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	1600		22.5	170	ug/Kg
88-74-4	2-Nitroaniline	1600		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:	PB168787BS			SDG No.:	Q2543
Lab Sample ID:	PB168787BS			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
BP025140.D	1	07/10/25 09:55	07/15/25 10:58	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1700		28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1700		33.6	170	ug/Kg
99-09-2	3-Nitroaniline	1100		46.0	170	ug/Kg
83-32-9	Acenaphthene	1500		21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	4000	E	230	330	ug/Kg
100-02-7	4-Nitrophenol	3300	E	110	330	ug/Kg
132-64-9	Dibenzofuran	1400		22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1700		50.1	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	1600		64.2	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2000		100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1600		32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1700		27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1700		25.3	170	ug/Kg
1912-24-9	Atrazine	2100		34.0	170	ug/Kg
87-86-5	Pentachlorophenol	3400	E	51.3	330	ug/Kg
85-01-8	Phenanthrene	1600		20.9	170	ug/Kg
120-12-7	Anthracene	1600		33.3	170	ug/Kg
86-74-8	Carbazole	1600		31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1700		47.9	170	ug/Kg
206-44-0	Fluoranthene	1600		30.0	170	ug/Kg
129-00-0	Pyrene	1600		36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1800		71.4	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1400		36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	1600		23.0	170	ug/Kg
218-01-9	Chrysene	1600		19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1900		59.2	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1800		86.8	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1500		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:	PB168787BS	SDG No.:	Q2543
Lab Sample ID:	PB168787BS	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
BP025140.D	1	07/10/25 09:55	07/15/25 10:58	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1600		22.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	1800		29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1800		29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1800		27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1700		25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1600		25.6	170	ug/Kg
123-91-1	1,4-Dioxane	1300		45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	141		18 - 112	94%	SPK: 150
13127-88-3	Phenol-d6	118		15 - 107	78%	SPK: 150
4165-60-0	Nitrobenzene-d5	90.9		18 - 107	91%	SPK: 100
321-60-8	2-Fluorobiphenyl	87.5		20 - 109	87%	SPK: 100
118-79-6	2,4,6-Tribromophenol	149		10 - 116	99%	SPK: 150
1718-51-0	Terphenyl-d14	95.8		10 - 105	96%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	579000	7.443			
1146-65-2	Naphthalene-d8	2210000	10.184			
15067-26-2	Acenaphthene-d10	1340000	14.084			
1517-22-2	Phenanthrene-d10	2600000	16.895			
1719-03-5	Chrysene-d12	2650000	21.348			
1520-96-3	Perylene-d12	2990000	24.471			

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49MS	SDG No.:	Q2543
Lab Sample ID:	Q2543-02MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	73.9
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
BM050395.D	1	07/10/25 09:55	07/10/25 18:38	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	2000		210	450	ug/Kg
108-95-2	Phenol	2100		29.8	230	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	2000		32.8	230	ug/Kg
95-57-8	2-Chlorophenol	2100		32.9	230	ug/Kg
95-48-7	2-Methylphenol	2100		40.4	230	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1900		50.6	230	ug/Kg
98-86-2	Acetophenone	2000		39.8	230	ug/Kg
65794-96-9	3+4-Methylphenols	2100		55.5	450	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	2100		64.0	110	ug/Kg
67-72-1	Hexachloroethane	1900		23.8	230	ug/Kg
98-95-3	Nitrobenzene	2000		24.7	230	ug/Kg
78-59-1	Isophorone	2100		44.3	230	ug/Kg
88-75-5	2-Nitrophenol	2300		78.6	230	ug/Kg
105-67-9	2,4-Dimethylphenol	2100		87.5	230	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	2000		41.6	230	ug/Kg
120-83-2	2,4-Dichlorophenol	2200		38.2	230	ug/Kg
91-20-3	Naphthalene	2000		30.6	230	ug/Kg
106-47-8	4-Chloroaniline	600		47.8	230	ug/Kg
87-68-3	Hexachlorobutadiene	2000		34.2	230	ug/Kg
105-60-2	Caprolactam	2200		70.3	450	ug/Kg
59-50-7	4-Chloro-3-methylphenol	2200		38.7	230	ug/Kg
91-57-6	2-Methylnaphthalene	2100		34.6	230	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4200	E	160	450	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2200		26.7	230	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2200		39.3	230	ug/Kg
92-52-4	1,1-Biphenyl	2000		29.4	230	ug/Kg
91-58-7	2-Chloronaphthalene	2000		30.4	230	ug/Kg
88-74-4	2-Nitroaniline	2200		64.9	230	ug/Kg
131-11-3	Dimethylphthalate	2100		36.6	230	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49MS	SDG No.:	Q2543
Lab Sample ID:	Q2543-02MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	73.9
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
BM050395.D	1	07/10/25 09:55	07/10/25 18:38	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	2100		39.0	230	ug/Kg
606-20-2	2,6-Dinitrotoluene	2200		45.4	230	ug/Kg
99-09-2	3-Nitroaniline	990		62.1	230	ug/Kg
83-32-9	Acenaphthene	2200		28.8	230	ug/Kg
51-28-5	2,4-Dinitrophenol	3700	E	310	450	ug/Kg
100-02-7	4-Nitrophenol	4600	E	140	450	ug/Kg
132-64-9	Dibenzofuran	2000		30.6	230	ug/Kg
121-14-2	2,4-Dinitrotoluene	2100		67.6	230	ug/Kg
84-66-2	Diethylphthalate	2100		38.2	230	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	2100		36.0	230	ug/Kg
86-73-7	Fluorene	2100		34.2	230	ug/Kg
100-01-6	4-Nitroaniline	1900		86.7	230	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1900		140	450	ug/Kg
86-30-6	n-Nitrosodiphenylamine	2100		44.4	230	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2200		37.5	230	ug/Kg
118-74-1	Hexachlorobenzene	2100		34.2	230	ug/Kg
1912-24-9	Atrazine	2300		45.9	230	ug/Kg
87-86-5	Pentachlorophenol	4600	E	69.3	450	ug/Kg
85-01-8	Phenanthrene	2100		28.2	230	ug/Kg
120-12-7	Anthracene	2100		45.0	230	ug/Kg
86-74-8	Carbazole	2100		42.1	230	ug/Kg
84-74-2	Di-n-butylphthalate	2300		64.7	230	ug/Kg
206-44-0	Fluoranthene	2400		40.5	230	ug/Kg
129-00-0	Pyrene	2700		48.6	230	ug/Kg
85-68-7	Butylbenzylphthalate	2700		96.4	230	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1000		49.5	450	ug/Kg
56-55-3	Benzo(a)anthracene	2300		31.1	230	ug/Kg
218-01-9	Chrysene	2200		26.9	230	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2600		79.9	230	ug/Kg
117-84-0	Di-n-octyl phthalate	2400		120	450	ug/Kg
205-99-2	Benzo(b)fluoranthene	2400		25.7	230	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49MS	SDG No.:	Q2543
Lab Sample ID:	Q2543-02MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	73.9
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
BM050395.D	1	07/10/25 09:55	07/10/25 18:38	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	2200		30.2	230	ug/Kg
50-32-8	Benzo(a)pyrene	2300		39.8	230	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2100		39.3	230	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2000		37.0	230	ug/Kg
191-24-2	Benzo(g,h,i)perylene	2100		34.7	230	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2100		34.6	230	ug/Kg
123-91-1	1,4-Dioxane	1600		61.0	230	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2300		37.0	230	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	100		18 - 112	67%	SPK: 150
13127-88-3	Phenol-d6	101		15 - 107	67%	SPK: 150
4165-60-0	Nitrobenzene-d5	59.9		18 - 107	60%	SPK: 100
321-60-8	2-Fluorobiphenyl	57.5		20 - 109	58%	SPK: 100
118-79-6	2,4,6-Tribromophenol	116		10 - 116	77%	SPK: 150
1718-51-0	Terphenyl-d14	71.0		10 - 105	71%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	628000	7.863			
1146-65-2	Naphthalene-d8	2380000	10.663			
15067-26-2	Acenaphthene-d10	1540000	14.492			
1517-22-2	Phenanthrene-d10	3030000	17.227			
1719-03-5	Chrysene-d12	2720000	21.456			
1520-96-3	Perylene-d12	2170000	24.491			

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
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J = Estimated Value
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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49MSD	SDG No.:	Q2543
Lab Sample ID:	Q2543-02MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	73.9
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
BM050396.D	1	07/10/25 09:55	07/10/25 19:18	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1900		210	450	ug/Kg
108-95-2	Phenol	2000		29.8	230	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1900		32.8	230	ug/Kg
95-57-8	2-Chlorophenol	2000		33.0	230	ug/Kg
95-48-7	2-Methylphenol	2000		40.4	230	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1800		50.6	230	ug/Kg
98-86-2	Acetophenone	1900		39.8	230	ug/Kg
65794-96-9	3+4-Methylphenols	2000		55.5	450	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1900		64.0	110	ug/Kg
67-72-1	Hexachloroethane	1900		23.8	230	ug/Kg
98-95-3	Nitrobenzene	2000		24.7	230	ug/Kg
78-59-1	Isophorone	2000		44.3	230	ug/Kg
88-75-5	2-Nitrophenol	2300		78.6	230	ug/Kg
105-67-9	2,4-Dimethylphenol	2100		87.5	230	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	2000		41.6	230	ug/Kg
120-83-2	2,4-Dichlorophenol	2100		38.2	230	ug/Kg
91-20-3	Naphthalene	1900		30.7	230	ug/Kg
106-47-8	4-Chloroaniline	640		47.8	230	ug/Kg
87-68-3	Hexachlorobutadiene	2000		34.2	230	ug/Kg
105-60-2	Caprolactam	2100		70.4	450	ug/Kg
59-50-7	4-Chloro-3-methylphenol	2100		38.8	230	ug/Kg
91-57-6	2-Methylnaphthalene	2000		34.6	230	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4200	E	160	450	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2200		26.7	230	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2200		39.3	230	ug/Kg
92-52-4	1,1-Biphenyl	2000		29.4	230	ug/Kg
91-58-7	2-Chloronaphthalene	2000		30.4	230	ug/Kg
88-74-4	2-Nitroaniline	2200		65.0	230	ug/Kg
131-11-3	Dimethylphthalate	2000		36.6	230	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49MSD	SDG No.:	Q2543
Lab Sample ID:	Q2543-02MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	73.9
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
BM050396.D	1	07/10/25 09:55	07/10/25 19:18	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	2100		39.0	230	ug/Kg
606-20-2	2,6-Dinitrotoluene	2200		45.4	230	ug/Kg
99-09-2	3-Nitroaniline	940		62.1	230	ug/Kg
83-32-9	Acenaphthene	2100		28.8	230	ug/Kg
51-28-5	2,4-Dinitrophenol	3500		310	450	ug/Kg
100-02-7	4-Nitrophenol	4300	E	140	450	ug/Kg
132-64-9	Dibenzofuran	2000		30.7	230	ug/Kg
121-14-2	2,4-Dinitrotoluene	2000		67.7	230	ug/Kg
84-66-2	Diethylphthalate	2000		38.2	230	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	2000		36.1	230	ug/Kg
86-73-7	Fluorene	2000		34.2	230	ug/Kg
100-01-6	4-Nitroaniline	1800		86.7	230	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1900		140	450	ug/Kg
86-30-6	n-Nitrosodiphenylamine	2100		44.4	230	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2200		37.5	230	ug/Kg
118-74-1	Hexachlorobenzene	2100		34.2	230	ug/Kg
1912-24-9	Atrazine	2200		45.9	230	ug/Kg
87-86-5	Pentachlorophenol	4500	E	69.3	450	ug/Kg
85-01-8	Phenanthrene	2000		28.2	230	ug/Kg
120-12-7	Anthracene	2100		45.0	230	ug/Kg
86-74-8	Carbazole	2000		42.1	230	ug/Kg
84-74-2	Di-n-butylphthalate	2200		64.7	230	ug/Kg
206-44-0	Fluoranthene	2200		40.5	230	ug/Kg
129-00-0	Pyrene	2600		48.6	230	ug/Kg
85-68-7	Butylbenzylphthalate	2600		96.4	230	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1100		49.6	450	ug/Kg
56-55-3	Benzo(a)anthracene	2200		31.1	230	ug/Kg
218-01-9	Chrysene	2200		26.9	230	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2400		79.9	230	ug/Kg
117-84-0	Di-n-octyl phthalate	2400		120	450	ug/Kg
205-99-2	Benzo(b)fluoranthene	2300		25.7	230	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49MSD	SDG No.:	Q2543
Lab Sample ID:	Q2543-02MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	73.9
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
BM050396.D	1	07/10/25 09:55	07/10/25 19:18	PB168787

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	2200		30.3	230	ug/Kg
50-32-8	Benzo(a)pyrene	2300		39.8	230	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2200		39.3	230	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2100		37.0	230	ug/Kg
191-24-2	Benzo(g,h,i)perylene	2200		34.7	230	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2100		34.6	230	ug/Kg
123-91-1	1,4-Dioxane	1600		61.0	230	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2200		37.0	230	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	96.6		18 - 112	64%	SPK: 150
13127-88-3	Phenol-d6	96.5		15 - 107	64%	SPK: 150
4165-60-0	Nitrobenzene-d5	59.3		18 - 107	59%	SPK: 100
321-60-8	2-Fluorobiphenyl	57.6		20 - 109	58%	SPK: 100
118-79-6	2,4,6-Tribromophenol	109		10 - 116	73%	SPK: 150
1718-51-0	Terphenyl-d14	70.1		10 - 105	70%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	615000	7.863			
1146-65-2	Naphthalene-d8	2250000	10.663			
15067-26-2	Acenaphthene-d10	1410000	14.492			
1517-22-2	Phenanthrene-d10	2620000	17.227			
1719-03-5	Chrysene-d12	2230000	21.451			
1520-96-3	Perylene-d12	2050000	24.491			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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E = Value Exceeds Calibration Range
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J = Estimated Value
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A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Response Factor Report BNA_M

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM070925.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Jul 08 18:32:25 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BM050377.D 5 =BM050378.D 10 =BM050379.D 20 =BM050380.D 40 =BM050381.D 50 =BM050382.D 60 =BM050383.D 80 =BM0503
84.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.504	0.466	0.482	0.460	0.501	0.474	0.457	0.478	3.99
3)		Pyridine		1.249	1.197	1.256	1.228	1.336	1.279	1.236	1.254	3.52
4)		n-Nitrosodimet...			0.562	0.595	0.572	0.620	0.595	0.565	0.585	3.88
5)	S	2-Fluorophenol		1.126	1.079	1.149	1.152	1.258	1.202	1.168	1.162	4.89
6)		Aniline		1.784	1.702	1.844	1.878	2.042	1.987	1.921	1.880	6.20
7)	S	Phenol-d6		1.367	1.327	1.441	1.466	1.607	1.547	1.498	1.465	6.67
8)		2-Chlorophenol		1.135	1.105	1.219	1.217	1.341	1.301	1.258	1.225	6.89
9)		Benzaldehyde			0.944	0.985	0.897	0.837	0.694		0.871	13.03
10)	C	Phenol		1.460	1.412	1.516	1.508	1.666	1.598	1.535	1.528	5.51
11)		bis(2-Chloroet...		1.202	1.134	1.223	1.196	1.324	1.268	1.218	1.223	4.88
12)		1,3-Dichlorobe...		1.504	1.425	1.496	1.448	1.580	1.511	1.465	1.490	3.40
13)	C	1,4-Dichlorobe...		1.553	1.459	1.536	1.465	1.610	1.538	1.487	1.521	3.57
14)		1,2-Dichlorobe...		1.481	1.395	1.454	1.410	1.541	1.485	1.428	1.456	3.48
15)		Benzyl Alcohol			0.907	0.995	1.022	1.125	1.090	1.052	1.032	7.45
16)		2,2'-oxybis(1-...		1.835	1.741	1.818	1.752	1.907	1.821	1.741	1.802	3.41
17)		2-Methylphenol		0.922	0.898	0.980	0.990	1.089	1.048	1.008	0.991	6.71
18)		Hexachloroethane		0.518	0.501	0.532	0.520	0.574	0.556	0.543	0.535	4.66
19)	P	n-Nitroso-di-n...	0.790	0.805	0.808	0.888	0.911	1.005	0.968	0.924	0.887	9.01
20)		3+4-Methylphenols			1.170	1.296	1.325	1.458	1.393	1.338	1.330	7.29
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.493	0.479	0.501	0.491	0.534	0.513	0.489	0.500	3.69
23)	S	Nitrobenzene-d5		0.362	0.355	0.390	0.392	0.429	0.415	0.400	0.392	6.77
24)		Nitrobenzene		0.333	0.329	0.353	0.345	0.377	0.362	0.349	0.350	4.73
25)		Isophorone		0.571	0.574	0.634	0.640	0.702	0.679	0.652	0.636	7.73
26)	C	2-Nitrophenol		0.107	0.112	0.132	0.147	0.167	0.167	0.167	0.143	18.26
27)		2,4-Dimethylph...		0.295	0.275	0.301	0.299	0.329	0.317	0.308	0.303	5.63
28)		bis(2-Chloroet...		0.407	0.395	0.422	0.417	0.454	0.436	0.420	0.422	4.61
29)	C	2,4-Dichloroph...		0.277	0.279	0.311	0.312	0.344	0.334	0.325	0.312	8.26
30)		1,2,4-Trichlor...		0.370	0.349	0.369	0.362	0.397	0.385	0.378	0.373	4.21
31)		Naphthalene		1.033	0.975	1.024	0.988	1.071	1.029	0.992	1.016	3.26
32)		Benzoic acid			0.100	0.139	0.164	0.195	0.194	0.199	0.165	23.89
33)		4-Chloroaniline		0.398	0.397	0.427	0.429	0.465	0.453	0.437	0.429	6.00
34)	C	Hexachlorobuta...		0.222	0.209	0.222	0.221	0.244	0.239	0.235	0.228	5.37
35)		Caprolactam			0.064	0.081	0.087	0.096	0.093	0.090	0.085	13.87
36)	C	4-Chloro-3-met...		0.258	0.256	0.288	0.295	0.326	0.313	0.302	0.291	9.10
37)		2-Methylnaphth...		0.611	0.595	0.638	0.635	0.693	0.671	0.647	0.641	5.19
38)		1-Methylnaphth...		0.651	0.629	0.674	0.673	0.736	0.707	0.681	0.679	5.17

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Method File : 8270-BM070925.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.590	0.569	0.611	0.622	0.700	0.683	0.677	0.636	7.93
41)	P	Hexachlorocycl...		0.320	0.361	0.396	0.450	0.454	0.459	0.407	14.08
42)	S	2,4,6-Tribromo...	0.182	0.195	0.230	0.248	0.285	0.280	0.280	0.243	17.40
43)	C	2,4,6-Trichlor...	0.330	0.335	0.377	0.394	0.443	0.434	0.427	0.391	11.81
44)		2,4,5-Trichlor...	0.359	0.376	0.415	0.430	0.484	0.470	0.460	0.428	11.13
45)	S	2-Fluorobiphenyl	1.572	1.538	1.611	1.592	1.753	1.697	1.575	1.620	4.74
46)		1,1'-Biphenyl	1.464	1.419	1.479	1.441	1.586	1.527	1.471	1.484	3.79
47)		2-Chloronaphth...	1.164	1.126	1.187	1.150	1.267	1.217	1.171	1.183	3.93
48)		2-Nitroaniline	0.197	0.211	0.253	0.278	0.312	0.302	0.295	0.264	17.17
49)		Acenaphthylene	1.645	1.658	1.795	1.775	1.956	1.875	1.811	1.788	6.21
50)		Dimethylphthalate	1.323	1.285	1.368	1.351	1.506	1.432	1.373	1.377	5.29
51)		2,6-Dinitrotol...	0.196	0.224	0.263	0.273	0.308	0.297	0.289	0.264	15.41
52)	C	Acenaphthene	1.086	1.050	1.126	1.111	1.231	1.196	1.158	1.137	5.51
53)		3-Nitroaniline	0.204	0.231	0.278	0.294	0.330	0.319	0.311	0.281	16.81
54)	P	2,4-Dinitrophenol		0.074	0.097	0.117	0.140	0.147	0.150	0.121	25.40
55)		Dibenzofuran	1.747	1.674	1.756	1.709	1.880	1.784	1.711	1.751	3.84
56)	P	4-Nitrophenol		0.182	0.225	0.245	0.276	0.265	0.258	0.242	14.15
57)		2,4-Dinitrotol...	0.234	0.277	0.340	0.371	0.422	0.407	0.401	0.350	20.31
58)		Fluorene	1.348	1.328	1.428	1.419	1.582	1.522	1.470	1.443	6.29
59)		2,3,4,6-Tetrac...	0.299	0.306	0.355	0.365	0.405	0.397	0.392	0.360	11.92
60)		Diethylphthalate	1.217	1.210	1.319	1.309	1.454	1.379	1.320	1.315	6.51
61)		4-Chlorophenyl...	0.687	0.673	0.733	0.747	0.839	0.811	0.790	0.754	8.28
62)		4-Nitroaniline	0.192	0.228	0.284	0.311	0.350	0.331	0.320	0.288	20.10
63)		Azobenzene	1.085	1.116	1.234	1.208	1.335	1.272	1.204	1.208	7.15
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.057	0.077	0.094	0.109	0.113	0.117	0.095	24.90
66)	c	n-Nitrosodiphe...	0.572	0.577	0.620	0.623	0.678	0.658	0.654	0.626	6.49
67)		4-Bromophenyl-...	0.196	0.194	0.211	0.218	0.242	0.240	0.241	0.220	9.61
68)		Hexachlorobenzene	0.239	0.233	0.253	0.256	0.283	0.279	0.278	0.260	7.78
69)		Atrazine	0.166	0.175	0.199	0.211	0.232	0.228	0.227	0.206	12.95
70)	C	Pentachlorophenol		0.122	0.145	0.161	0.181	0.180	0.183	0.162	15.23
71)		Phenanthrene	1.119	1.070	1.119	1.101	1.206	1.163	1.143	1.132	3.91
72)		Anthracene	1.028	1.017	1.109	1.117	1.233	1.204	1.179	1.127	7.44
73)		Carbazole	0.939	0.944	1.009	1.010	1.108	1.073	1.052	1.019	6.23
74)		Di-n-butylphth...	0.954	0.961	1.091	1.140	1.252	1.216	1.196	1.116	10.76
75)	C	Fluoranthene	1.088	1.079	1.182	1.233	1.366	1.339	1.327	1.230	9.67
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.370	0.521	0.553	0.601	0.552	0.464	0.510	16.08
78)		Pyrene	1.198	1.177	1.260	1.260	1.388	1.366	1.316	1.281	6.26
79)	S	Terphenyl-d14	1.095	1.110	1.225	1.258	1.298	1.094	0.878	1.137	12.43
80)		Butylbenzylpht...	0.317	0.334	0.401	0.441	0.492	0.491	0.479	0.422	17.39
81)		Benzo(a)anthra...	1.204	1.202	1.282	1.282	1.428	1.379	1.345	1.303	6.57
82)		3,3'-Dichlorob...		0.351	0.406	0.429	0.498	0.487	0.465	0.439	12.66
83)		Chrysene	1.162	1.153	1.200	1.209	1.327	1.303	1.249	1.229	5.45
84)		Bis(2-ethylhex...	0.499	0.546	0.658	0.705	0.780	0.763	0.742	0.670	16.33
85)	c	Di-n-octyl pht...		0.742	0.931	1.058	1.193	1.194	1.183	1.050	17.44

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86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.208	1.238	1.374	1.415	1.603	1.564	1.551	1.422	11.17
88)		Benzo(b)fluora...	1.090	1.075	1.177	1.230	1.368	1.344	1.327	1.230	9.83
89)		Benzo(k)fluora...	1.105	1.138	1.247	1.263	1.444	1.387	1.350	1.276	9.86
90)	C	Benzo(a)pyrene	0.962	0.985	1.099	1.156	1.314	1.281	1.264	1.152	12.41
91)		Dibenzo(a,h)an...	1.022	1.035	1.159	1.193	1.352	1.320	1.301	1.198	11.23
92)		Benzo(g,h,i)pe...	0.992	1.001	1.097	1.121	1.263	1.232	1.216	1.132	9.73

(#) = Out of Range

Response Factor Report MSBNA_P

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP070325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jul 03 16:05:44 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BP025071.D 5 =BP025072.D 10 =BP025073.D 20 =BP025074.D 40 =BP025075.D 50 =BP025076.D 60 =BP025077.D 80 =BP0250
78.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.470	0.452	0.457	0.435	0.420	0.428	0.409	0.439	4.99
3)		Pyridine		1.176	1.153	1.243	1.228	1.171	1.239	1.203	1.202	3.00
4)		n-Nitrosodimet...			0.500	0.531	0.506	0.493	0.522	0.500	0.509	2.85
5)	S	2-Fluorophenol		1.070	1.098	1.179	1.134	1.127	1.168	1.127	1.129	3.33
6)		Aniline		1.334	1.324	1.430	1.388	1.371	1.428	1.359	1.376	3.05
7)	S	Phenol-d6		1.428	1.407	1.520	1.458	1.472	1.543	1.482	1.473	3.26
8)		2-Chlorophenol		1.254	1.207	1.320	1.256	1.250	1.294	1.259	1.263	2.83
9)		Benzaldehyde			0.903	0.894	0.724	0.684	0.641		0.769	15.84
10)	C	Phenol		1.473	1.461	1.551	1.472	1.485	1.540	1.493	1.497	2.36
11)		bis(2-Chloroet...		1.187	1.139	1.200	1.122	1.129	1.172	1.115	1.152	2.95
12)		1,3-Dichlorobe...		1.461	1.434	1.485	1.379	1.366	1.413	1.356	1.413	3.48
13)	C	1,4-Dichlorobe...		1.500	1.432	1.505	1.399	1.384	1.424	1.374	1.431	3.70
14)		1,2-Dichlorobe...		1.454	1.388	1.445	1.349	1.329	1.368	1.303	1.377	4.12
15)		Benzyl Alcohol			0.887	0.991	0.957	0.990	1.058	1.015	0.983	5.86
16)		2,2'-oxybis(1-...		1.587	1.520	1.570	1.433	1.462	1.497	1.415	1.498	4.40
17)		2-Methylphenol		0.887	0.908	1.007	0.969	0.974	1.021	0.983	0.964	5.11
18)		Hexachloroethane		0.476	0.441	0.480	0.460	0.463	0.481	0.462	0.466	3.04
19)	P	n-Nitroso-di-n...	0.815	0.862	0.854	0.938	0.865	0.871	0.912	0.872	0.874	4.26
20)		3+4-Methylphenols			1.246	1.383	1.334	1.341	1.428	1.370	1.350	4.55
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.480	0.481	0.502	0.465	0.456	0.480	0.447	0.473	3.88
23)	S	Nitrobenzene-d5		0.267	0.277	0.314	0.307	0.308	0.323	0.308	0.301	6.84
24)		Nitrobenzene		0.280	0.293	0.319	0.310	0.307	0.327	0.308	0.306	5.13
25)		Isophorone		0.525	0.534	0.587	0.558	0.571	0.597	0.561	0.562	4.67
26)	C	2-Nitrophenol		0.086	0.093	0.117	0.133	0.146	0.160	0.159	0.128	23.51
27)		2,4-Dimethylph...		0.199	0.195	0.218	0.208	0.213	0.224	0.210	0.210	4.79
28)		bis(2-Chloroet...		0.378	0.371	0.401	0.374	0.379	0.397	0.371	0.382	3.25
29)	C	2,4-Dichloroph...		0.242	0.263	0.298	0.299	0.304	0.321	0.306	0.291	9.48
30)		1,2,4-Trichlor...		0.319	0.319	0.331	0.319	0.316	0.335	0.314	0.322	2.53
31)		Naphthalene		1.057	1.030	1.081	1.011	1.005	1.049	0.975	1.030	3.47
32)		Benzoic acid			0.115	0.152	0.186	0.199	0.225	0.231	0.185	24.07
33)		4-Chloroaniline		0.358	0.370	0.399	0.390	0.381	0.411	0.381	0.384	4.58
34)	C	Hexachlorobuta...		0.187	0.180	0.188	0.182	0.184	0.191	0.180	0.185	2.31
35)		Caprolactam			0.087	0.101	0.101	0.098	0.108	0.102	0.099	7.23
36)	C	4-Chloro-3-met...		0.259	0.279	0.321	0.309	0.309	0.332	0.316	0.304	8.35
37)		2-Methylnaphth...		0.724	0.711	0.766	0.718	0.715	0.747	0.706	0.727	2.99
38)		1-Methylnaphth...		0.707	0.704	0.753	0.692	0.691	0.736	0.678	0.709	3.74

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Method File : 8270E-BP070325.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.554	0.549	0.584	0.580	0.578	0.610	0.568	0.575	3.56
41)	P	Hexachlorocycl...		0.120	0.135	0.149	0.162	0.171	0.164	0.150	13.13
42)	S	2,4,6-Tribromo...	0.194	0.214	0.240	0.246	0.244	0.266	0.249	0.236	10.22
43)	C	2,4,6-Trichlor...	0.271	0.295	0.355	0.370	0.368	0.399	0.379	0.348	13.51
44)		2,4,5-Trichlor...	0.326	0.349	0.406	0.411	0.412	0.441	0.416	0.394	10.41
45)	S	2-Fluorobiphenyl	1.338	1.310	1.361	1.279	1.260	1.311	1.177	1.291	4.70
46)		1,1'-Biphenyl	1.482	1.436	1.510	1.454	1.435	1.490	1.380	1.455	2.99
47)		2-Chloronaphth...	1.097	1.089	1.141	1.091	1.069	1.121	1.048	1.094	2.83
48)		2-Nitroaniline	0.157	0.185	0.235	0.259	0.259	0.289	0.273	0.237	20.49
49)		Acenaphthylene	1.582	1.622	1.771	1.701	1.660	1.761	1.620	1.674	4.36
50)		Dimethylphthalate	1.364	1.376	1.469	1.408	1.365	1.482	1.337	1.400	3.99
51)		2,6-Dinitrotol...	0.199	0.238	0.281	0.295	0.291	0.313	0.294	0.273	14.58
52)	C	Acenaphthene	1.085	1.074	1.142	1.066	1.047	1.111	1.027	1.079	3.59
53)		3-Nitroaniline	0.204	0.248	0.297	0.321	0.310	0.345	0.323	0.293	16.81
54)	P	2,4-Dinitrophenol		0.077	0.098	0.117	0.120	0.137	0.137	0.114	20.49
55)		Dibenzofuran	1.829	1.814	1.866	1.768	1.720	1.813	1.655	1.781	4.07
56)	P	4-Nitrophenol		0.212	0.260	0.285	0.274	0.301	0.289	0.270	11.73
57)		2,4-Dinitrotol...	0.231	0.285	0.364	0.392	0.387	0.430	0.406	0.356	20.13
58)		Fluorene	1.382	1.384	1.467	1.393	1.335	1.403	1.278	1.377	4.27
59)		2,3,4,6-Tetrac...	0.305	0.318	0.370	0.370	0.363	0.397	0.377	0.357	9.32
60)		Diethylphthalate	1.368	1.376	1.468	1.429	1.366	1.477	1.358	1.406	3.64
61)		4-Chlorophenyl...	0.711	0.687	0.710	0.679	0.659	0.700	0.626	0.682	4.47
62)		4-Nitroaniline	0.221	0.267	0.321	0.342	0.319	0.354	0.324	0.307	15.26
63)		Azobenzene	1.251	1.275	1.328	1.265	1.211	1.265	1.171	1.252	3.98
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.054	0.069	0.081	0.089	0.097	0.098	0.082	21.25
66)	c	n-Nitrosodiphe...	0.557	0.548	0.597	0.573	0.574	0.592	0.565	0.572	3.11
67)		4-Bromophenyl-...	0.191	0.190	0.213	0.205	0.208	0.214	0.213	0.205	5.14
68)		Hexachlorobenzene	0.255	0.240	0.255	0.247	0.248	0.257	0.249	0.250	2.28
69)		Atrazine	0.155	0.167	0.183	0.172	0.171	0.172	0.154	0.168	6.10
70)	C	Pentachlorophenol		0.131	0.163	0.172	0.178	0.186	0.184	0.169	12.03
71)		Phenanthrene	1.102	1.084	1.104	1.068	1.030	1.082	1.011	1.069	3.34
72)		Anthracene	0.998	0.996	1.092	1.036	1.021	1.062	0.971	1.025	4.10
73)		Carbazole	0.954	0.994	1.057	1.029	0.990	1.017	0.976	1.002	3.45
74)		Di-n-butylphth...	0.929	0.994	1.147	1.187	1.177	1.228	1.152	1.116	9.89
75)	C	Fluoranthene	1.170	1.222	1.330	1.290	1.249	1.268	1.215	1.249	4.22
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.177	0.354	0.571	0.420	0.288	0.310	0.353	37.82
78)		Pyrene	1.177	1.184	1.288	1.231	1.251	1.302	1.238	1.239	3.81
79)	S	Terphenyl-d14	0.943	0.919	0.978	0.914	0.915	0.936	0.764	0.910	7.50
80)		Butylbenzylpht...	0.228	0.276	0.377	0.440	0.471	0.519	0.499	0.402	28.01
81)		Benzo(a)anthra...	1.146	1.175	1.293	1.217	1.207	1.258	1.189	1.212	4.11
82)		3,3'-Dichlorob...		0.249	0.340	0.390	0.399	0.414	0.397	0.365	16.97
83)		Chrysene	1.169	1.147	1.223	1.159	1.157	1.191	1.118	1.166	2.88
84)		Bis(2-ethylhex...	0.460	0.520	0.646	0.703	0.737	0.764	0.720	0.650	17.89
85)	c	Di-n-octyl pht...		0.609	0.876	1.094	1.206	1.292	1.248	1.054	25.04

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Method File : 8270E-BP070325.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.003	1.101	1.318	1.331	1.366	1.433	1.366	1.274	12.44
88)		Benzo(b)fluora...	1.029	1.063	1.215	1.201	1.188	1.266	1.187	1.164	7.36
89)		Benzo(k)fluora...	1.070	1.129	1.249	1.153	1.157	1.218	1.133	1.158	5.11
90)	C	Benzo(a)pyrene	0.817	0.868	1.035	1.033	1.035	1.108	1.040	0.991	10.70
91)		Dibenzo(a,h)an...	0.840	0.921	1.098	1.097	1.126	1.172	1.118	1.053	11.66
92)		Benzo(g,h,i)pe...	0.915	0.967	1.126	1.127	1.142	1.197	1.142	1.088	9.58

(#) = Out of Range

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2543

Instrument ID: BNA_M Calibration Date/Time: 07/10/2025 13:53

Lab File ID: BM050388.D Init. Calib. Date(s): 07/08/2025 07/08/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:39 17:22

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.162	1.137		-2.2	
Benzaldehyde	0.871	0.886		1.7	
Phenol-d6	1.465	1.465		0.0	
Phenol	1.528	1.499		-1.9	20.0
bis(2-Chloroethyl)ether	1.223	1.182		-3.4	
2-Chlorophenol	1.225	1.199		-2.1	
2-Methylphenol	0.991	0.969		-2.2	
2,2-oxybis(1-Chloropropane)	1.802	1.740		-3.4	
Acetophenone	0.500	0.491		-1.8	
3+4-Methylphenols	1.330	1.291		-2.9	
n-Nitroso-di-n-propylamine	0.887	0.900	0.050	1.5	
Nitrobenzene-d5	0.392	0.394		0.5	
Hexachloroethane	0.535	0.517		-3.4	
Nitrobenzene	0.350	0.343		-2.0	
Isophorone	0.636	0.632		-0.6	
2-Nitrophenol	0.143	0.148		3.5	20.0
2,4-Dimethylphenol	0.303	0.297		-2.0	
bis(2-Chloroethoxy)methane	0.422	0.412		-2.4	
2,4-Dichlorophenol	0.312	0.314		0.6	20.0
Naphthalene	1.016	0.983		-3.2	
4-Chloroaniline	0.429	0.429		0.0	
Hexachlorobutadiene	0.228	0.218		-4.4	20.0
Caprolactam	0.085	0.085		0.0	
4-Chloro-3-methylphenol	0.291	0.293		0.7	20.0
2-Methylnaphthalene	0.641	0.636		-0.8	
Hexachlorocyclopentadiene	0.407	0.380	0.050	-6.6	
2,4,6-Trichlorophenol	0.391	0.393		0.5	20.0
2-Fluorobiphenyl	1.620	1.599		-1.3	
2,4,5-Trichlorophenol	0.428	0.426		-0.5	
1,1-Biphenyl	1.484	1.456		-1.9	
2-Chloronaphthalene	1.183	1.166		-1.4	
2-Nitroaniline	0.264	0.275		4.2	
Dimethylphthalate	1.377	1.353		-1.7	
Acenaphthylene	1.788	1.781		-0.4	
2,6-Dinitrotoluene	0.264	0.276		4.5	
3-Nitroaniline	0.281	0.295		5.0	
Acenaphthene	1.137	1.124		-1.1	20.0
2,4-Dinitrophenol	0.121	0.118	0.050	-2.5	
4-Nitrophenol	0.242	0.244	0.050	0.8	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2543

Instrument ID: BNA_M Calibration Date/Time: 07/10/2025 13:53

Lab File ID: BM050388.D Init. Calib. Date(s): 07/08/2025 07/08/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:39 17:22

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.751	1.711		-2.3	
2,4-Dinitrotoluene	0.350	0.373		6.6	
Diethylphthalate	1.315	1.303		-0.9	
4-Chlorophenyl-phenylether	0.754	0.742		-1.6	
Fluorene	1.443	1.428		-1.0	
4-Nitroaniline	0.288	0.312		8.3	
4,6-Dinitro-2-methylphenol	0.095	0.094		-1.1	
n-Nitrosodiphenylamine	0.626	0.618		-1.3	20.0
2,4,6-Tribromophenol	0.243	0.249		2.5	
4-Bromophenyl-phenylether	0.220	0.217		-1.4	
Hexachlorobenzene	0.260	0.254		-2.3	
Atrazine	0.206	0.205		-0.5	
Pentachlorophenol	0.162	0.157		-3.1	20.0
Phenanthrene	1.132	1.096		-3.2	
Anthracene	1.127	1.112		-1.3	
Carbazole	1.019	1.003		-1.6	
Di-n-butylphthalate	1.116	1.115		-0.1	
Fluoranthene	1.230	1.217		-1.1	20.0
Pyrene	1.281	1.262		-1.5	
Terphenyl-d14	1.137	1.220		7.3	
Butylbenzylphthalate	0.422	0.437		3.6	
3,3-Dichlorobenzidine	0.439	0.422		-3.9	
Benzo(a)anthracene	1.303	1.292		-0.8	
Chrysene	1.229	1.206		-1.9	
Bis(2-ethylhexyl)phthalate	0.670	0.700		4.5	
Di-n-octyl phthalate	1.050	1.069		1.8	20.0
Benzo(b)fluoranthene	1.230	1.224		-0.5	
Benzo(k)fluoranthene	1.276	1.284		0.6	
Benzo(a)pyrene	1.152	1.165		1.1	20.0
Indeno(1,2,3-cd)pyrene	1.422	1.436		1.0	
Dibenzo(a,h)anthracene	1.198	1.209		0.9	
Benzo(g,h,i)perylene	1.132	1.140		0.7	
1,2,4,5-Tetrachlorobenzene	0.636	0.622		-2.2	
1,4-Dioxane	0.478	0.451		-5.6	20.0
2,3,4,6-Tetrachlorophenol	0.360	0.358		-0.6	

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.: Q2543

Instrument ID: BNA_P Calibration Date/Time: 07/11/2025 10:26

Lab File ID: BP025098.D Init. Calib. Date(s): 07/03/2025 07/03/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:39 14:31

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.129	1.080		-4.3	
Benzaldehyde	0.769	0.703		-8.6	
Phenol-d6	1.473	1.349		-8.4	
Phenol	1.497	1.353		-9.6	20.0
bis(2-Chloroethyl)ether	1.152	1.022		-11.3	
2-Chlorophenol	1.263	1.181		-6.5	
2-Methylphenol	0.964	0.898		-6.8	
2,2-oxybis(1-Chloropropane)	1.498	1.256		-16.2	
Acetophenone	0.473	0.432		-8.7	
3+4-Methylphenols	1.350	1.229		-9.0	
n-Nitroso-di-n-propylamine	0.874	0.775	0.050	-11.3	
Nitrobenzene-d5	0.301	0.294		-2.3	
Hexachloroethane	0.466	0.451		-3.2	
Nitrobenzene	0.306	0.293		-4.2	
Isophorone	0.562	0.511		-9.1	
2-Nitrophenol	0.128	0.157		22.7	20.0
2,4-Dimethylphenol	0.210	0.197		-6.2	
bis(2-Chloroethoxy)methane	0.382	0.348		-8.9	
2,4-Dichlorophenol	0.291	0.284		-2.4	20.0
Naphthalene	1.030	0.954		-7.4	
4-Chloroaniline	0.384	0.358		-6.8	
Hexachlorobutadiene	0.185	0.181		-2.2	20.0
Caprolactam	0.099	0.096		-3.0	
4-Chloro-3-methylphenol	0.304	0.289		-4.9	20.0
2-Methylnaphthalene	0.727	0.670		-7.8	
Hexachlorocyclopentadiene	0.150	0.157	0.050	4.7	
2,4,6-Trichlorophenol	0.348	0.359		3.2	20.0
2-Fluorobiphenyl	1.291	1.209		-6.4	
2,4,5-Trichlorophenol	0.394	0.401		1.8	
1,1-Biphenyl	1.455	1.361		-6.5	
2-Chloronaphthalene	1.094	1.031		-5.8	
2-Nitroaniline	0.237	0.263		11.0	
Dimethylphthalate	1.400	1.311		-6.4	
Acenaphthylene	1.674	1.579		-5.7	
2,6-Dinitrotoluene	0.273	0.282		3.3	
3-Nitroaniline	0.293	0.313		6.8	
Acenaphthene	1.079	0.993		-8.0	20.0
2,4-Dinitrophenol	0.114	0.141	0.050	23.7	
4-Nitrophenol	0.270	0.286	0.050	5.9	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2543

Instrument ID: BNA_P Calibration Date/Time: 07/11/2025 10:26

Lab File ID: BP025098.D Init. Calib. Date(s): 07/03/2025 07/03/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:39 14:31

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.781	1.624		-8.8	
2,4-Dinitrotoluene	0.356	0.388		9.0	
Diethylphthalate	1.406	1.347		-4.2	
4-Chlorophenyl-phenylether	0.682	0.631		-7.5	
Fluorene	1.377	1.284		-6.8	
4-Nitroaniline	0.307	0.335		9.1	
4,6-Dinitro-2-methylphenol	0.082	0.097		18.3	
n-Nitrosodiphenylamine	0.572	0.541		-5.4	20.0
2,4,6-Tribromophenol	0.236	0.262		11.0	
4-Bromophenyl-phenylether	0.205	0.202		-1.5	
Hexachlorobenzene	0.250	0.241		-3.6	
Atrazine	0.168	0.155		-7.7	
Pentachlorophenol	0.169	0.182		7.7	20.0
Phenanthrene	1.069	0.996		-6.8	
Anthracene	1.025	0.968		-5.6	
Carbazole	1.002	0.969		-3.3	
Di-n-butylphthalate	1.116	1.156		3.6	
Fluoranthene	1.249	1.230		-1.5	20.0
Pyrene	1.239	1.152		-7.0	
Terphenyl-d14	0.910	0.865		-4.9	
Butylbenzylphthalate	0.402	0.500		24.4	
3,3-Dichlorobenzidine	0.365	0.422		15.6	
Benzo(a)anthracene	1.212	1.154		-4.8	
Chrysene	1.166	1.093		-6.3	
Bis(2-ethylhexyl)phthalate	0.650	0.721		10.9	
Di-n-octyl phthalate	1.054	1.248		18.4	20.0
Benzo(b)fluoranthene	1.164	1.102		-5.3	
Benzo(k)fluoranthene	1.158	1.068		-7.8	
Benzo(a)pyrene	0.991	0.972		-1.9	20.0
Indeno(1,2,3-cd)pyrene	1.274	1.302		2.2	
Dibenzo(a,h)anthracene	1.053	1.067		1.3	
Benzo(g,h,i)perylene	1.088	1.097		0.8	
1,2,4,5-Tetrachlorobenzene	0.575	0.556		-3.3	
1,4-Dioxane	0.439	0.390		-11.2	20.0
2,3,4,6-Tetrachlorophenol	0.357	0.371		3.9	

All other compounds must meet a minimum RRF of 0.010.

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2543

Instrument ID: BNA_P Calibration Date/Time: 07/15/2025 09:36

Lab File ID: BP025138.D Init. Calib. Date(s): 07/03/2025 07/03/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:39 14:31

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.129	1.147		1.6	
Benzaldehyde	0.769	0.679		-11.7	
Phenol-d6	1.473	1.355		-8.0	
Phenol	1.497	1.357		-9.4	20.0
bis(2-Chloroethyl)ether	1.152	1.035		-10.2	
2-Chlorophenol	1.263	1.226		-2.9	
2-Methylphenol	0.964	0.882		-8.5	
2,2-oxybis(1-Chloropropane)	1.498	1.230		-17.9	
Acetophenone	0.473	0.447		-5.5	
3+4-Methylphenols	1.350	1.168		-13.5	
n-Nitroso-di-n-propylamine	0.874	0.714	0.050	-18.3	
Nitrobenzene-d5	0.301	0.314		4.3	
Hexachloroethane	0.466	0.480		3.0	
Nitrobenzene	0.306	0.312		2.0	
Isophorone	0.562	0.502		-10.7	
2-Nitrophenol	0.128	0.173		35.2	20.0
2,4-Dimethylphenol	0.210	0.204		-2.9	
bis(2-Chloroethoxy)methane	0.382	0.353		-7.6	
2,4-Dichlorophenol	0.291	0.298		2.4	20.0
Naphthalene	1.030	1.000		-2.9	
4-Chloroaniline	0.384	0.355		-7.6	
Hexachlorobutadiene	0.185	0.203		9.7	20.0
Caprolactam	0.099	0.087		-12.1	
4-Chloro-3-methylphenol	0.304	0.283		-6.9	20.0
2-Methylnaphthalene	0.727	0.661		-9.1	
Hexachlorocyclopentadiene	0.150	0.198	0.050	32.0	
2,4,6-Trichlorophenol	0.348	0.391		12.4	20.0
2-Fluorobiphenyl	1.291	1.304		1.0	
2,4,5-Trichlorophenol	0.394	0.423		7.4	
1,1-Biphenyl	1.455	1.428		-1.9	
2-Chloronaphthalene	1.094	1.097		0.3	
2-Nitroaniline	0.237	0.272		14.8	
Dimethylphthalate	1.400	1.334		-4.7	
Acenaphthylene	1.674	1.684		0.6	
2,6-Dinitrotoluene	0.273	0.289		5.9	
3-Nitroaniline	0.293	0.323		10.2	
Acenaphthene	1.079	1.045		-3.2	20.0
2,4-Dinitrophenol	0.114	0.153	0.050	34.2	
4-Nitrophenol	0.270	0.289	0.050	7.0	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2543

Instrument ID: BNA_P Calibration Date/Time: 07/15/2025 09:36

Lab File ID: BP025138.D Init. Calib. Date(s): 07/03/2025 07/03/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:39 14:31

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.781	1.717		-3.6	
2,4-Dinitrotoluene	0.356	0.401		12.6	
Diethylphthalate	1.406	1.348		-4.1	
4-Chlorophenyl-phenylether	0.682	0.655		-4.0	
Fluorene	1.377	1.332		-3.3	
4-Nitroaniline	0.307	0.342		11.4	
4,6-Dinitro-2-methylphenol	0.082	0.111		35.4	
n-Nitrosodiphenylamine	0.572	0.577		0.9	20.0
2,4,6-Tribromophenol	0.236	0.272		15.3	
4-Bromophenyl-phenylether	0.205	0.223		8.8	
Hexachlorobenzene	0.250	0.259		3.6	
Atrazine	0.168	0.147		-12.5	
Pentachlorophenol	0.169	0.198		17.2	20.0
Phenanthrene	1.069	1.047		-2.1	
Anthracene	1.025	1.043		1.8	
Carbazole	1.002	1.027		2.5	
Di-n-butylphthalate	1.116	1.242		11.3	
Fluoranthene	1.249	1.286		3.0	20.0
Pyrene	1.239	1.176		-5.1	
Terphenyl-d14	0.910	0.896		-1.5	
Butylbenzylphthalate	0.402	0.528		31.3	
3,3-Dichlorobenzidine	0.365	0.460		26.0	
Benzo(a)anthracene	1.212	1.213		0.1	
Chrysene	1.166	1.161		-0.4	
Bis(2-ethylhexyl)phthalate	0.650	0.765		17.7	
Di-n-octyl phthalate	1.054	1.391		32.0	20.0
Benzo(b)fluoranthene	1.164	1.125		-3.4	
Benzo(k)fluoranthene	1.158	1.086		-6.2	
Benzo(a)pyrene	0.991	1.013		2.2	20.0
Indeno(1,2,3-cd)pyrene	1.274	1.401		10.0	
Dibenzo(a,h)anthracene	1.053	1.150		9.2	
Benzo(g,h,i)perylene	1.088	1.183		8.7	
1,2,4,5-Tetrachlorobenzene	0.575	0.622		8.2	
1,4-Dioxane	0.439	0.426		-3.0	20.0
2,3,4,6-Tetrachlorophenol	0.357	0.378		5.9	

All other compounds must meet a minimum RRF of 0.010.