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

LAB CHRONICLE

OrderID:	Q2458	**OrderDate:**	6/27/2025 4:22:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	D51,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2458-01	**TP-76**	**SOIL**			**06/26/25**			**06/27/25**
			SVOC-TCL BNA -20	8270E		07/01/25	07/02/25	
Q2458-02	**TP-55**	**SOIL**			**06/26/25**			**06/27/25**
			SVOC-TCL BNA -20	8270E		07/01/25	07/02/25	
Q2458-03	**TP-68**	**SOIL**			**06/27/25**			**06/27/25**
			SVOC-TCL BNA -20	8270E		07/01/25	07/02/25	
Q2458-04	**TP-67**	**SOIL**			**06/27/25**			**06/27/25**
			SVOC-TCL BNA -20	8270E		07/01/25	07/02/25	
Q2458-05	**TP-66**	**SOIL**			**06/27/25**			**06/27/25**
			SVOC-TCL BNA -20	8270E		07/01/25	07/02/25	
Q2458-06	**TP-60**	**SOIL**			**06/27/25**			**06/27/25**
			SVOC-TCL BNA -20	8270E		07/01/25	07/01/25	
Q2458-07	**TP-62**	**SOIL**			**06/27/25**			**06/27/25**
			SVOC-TCL BNA -20	8270E		07/01/25	07/01/25	
Q2458-08	**TP-63**	**SOIL**			**06/27/25**			**06/27/25**
			SVOC-TCL BNA -20	8270E		07/01/25	07/01/25	
Q2458-09	**TP-59**	**SOIL**			**06/27/25**			**06/27/25**
			SVOC-TCL BNA -20	8270E		07/01/25	07/02/25	
Q2458-10	**FB-06272025**	**Water**			**06/27/25**			**06/27/25**
			SVOC-TCL BNA -20	8270E		07/03/25	07/03/25	

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

Hit Summary Sheet
SW-846

SDG No.: Q2458

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID : TP-76									
Q2458-01	TP-76	SOIL	Phenanthrene		130.000	J	23	190	ug/Kg
Q2458-01	TP-76	SOIL	Fluoranthene		380.000		33.1	190	ug/Kg
Q2458-01	TP-76	SOIL	Pyrene		390.000		39.7	190	ug/Kg
Q2458-01	TP-76	SOIL	Benzo(a)anthracene		320.000		25.4	190	ug/Kg
Q2458-01	TP-76	SOIL	Chrysene		320.000		21.9	190	ug/Kg
Q2458-01	TP-76	SOIL	Benzo(b)fluoranthene		450.000		20.9	190	ug/Kg
Q2458-01	TP-76	SOIL	Benzo(k)fluoranthene		140.000	J	24.7	190	ug/Kg
Q2458-01	TP-76	SOIL	Benzo(a)pyrene		310.000		32.5	190	ug/Kg
Q2458-01	TP-76	SOIL	Indeno(1,2,3-cd)pyrene		110.000	J	32.1	190	ug/Kg
Q2458-01	TP-76	SOIL	Benzo(g,h,i)perylene		150.000	J	28.3	190	ug/Kg
			Total Svoc :		**2,700.00**				
Q2458-01	TP-76	SOIL	11H-Benzo[a]fluoren-11-one	*	130.000	J	0	0	ug/Kg
Q2458-01	TP-76	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	220.000	AB	0	0	ug/Kg
Q2458-01	TP-76	SOIL	9,10-Dimethylanthracene	*	130.000	J	0	0	ug/Kg
Q2458-01	TP-76	SOIL	Anthracene, 1-methyl-	*	88.900	J	0	0	ug/Kg
Q2458-01	TP-76	SOIL	Benzo[e]pyrene	*	250.000	J	0	0	ug/Kg
Q2458-01	TP-76	SOIL	Benzophenone	*	210.000	J	0	0	ug/Kg
Q2458-01	TP-76	SOIL	Fluoranthene, 2-methyl-	*	77.900	J	0	0	ug/Kg
Q2458-01	TP-76	SOIL	Pyrene, 1-methyl-	*	81.200	J	0	0	ug/Kg
Q2458-01	TP-76	SOIL	unknown16.698	*	92.200	J	0	0	ug/Kg
Q2458-01	TP-76	SOIL	Phenanthrene, 1-methyl-	*	250.000	J	0	0	ug/Kg
Q2458-01	TP-76	SOIL	Phenanthrene, 2,7-dimethyl-	*	85.200	J	0	0	ug/Kg
			Total Tics :		**1,615.40**				
			Total Concentration:		**4,315.40**				
Client ID : TP-55									
Q2458-02	TP-55	SOIL	Fluoranthene		190.000		32.7	190	ug/Kg
Q2458-02	TP-55	SOIL	Pyrene		200.000		39.3	190	ug/Kg
Q2458-02	TP-55	SOIL	Benzo(a)anthracene		170.000	J	25.1	190	ug/Kg
Q2458-02	TP-55	SOIL	Chrysene		140.000	J	21.7	190	ug/Kg
Q2458-02	TP-55	SOIL	Benzo(b)fluoranthene		270.000		20.7	190	ug/Kg
Q2458-02	TP-55	SOIL	Benzo(k)fluoranthene		98.300	J	24.4	190	ug/Kg
Q2458-02	TP-55	SOIL	Benzo(a)pyrene		200.000		32.2	190	ug/Kg
Q2458-02	TP-55	SOIL	Indeno(1,2,3-cd)pyrene		93.100	J	31.7	190	ug/Kg
Q2458-02	TP-55	SOIL	Benzo(g,h,i)perylene		130.000	J	28	190	ug/Kg
			Total Svoc :		**1,491.40**				
Q2458-02	TP-55	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	210.000	AB	0	0	ug/Kg
Q2458-02	TP-55	SOIL	Benzophenone	*	210.000	J	0	0	ug/Kg

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

Hit Summary Sheet
SW-846

SDG No.: Q2458

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q2458-02	TP-55	SOIL	n-Hexadecanoic acid	*	260.000	J	0	0	ug/Kg
Q2458-02	TP-55	SOIL	Trifluoroacetoxy hexadecane	*	130.000	J	0	0	ug/Kg
			Total Tics :		**810.00**				
			Total Concentration:		**2,301.40**				
Client ID :	**TP-68**								
Q2458-03	TP-68	SOIL	Phenanthrene		210.000		22.6	180	ug/Kg
Q2458-03	TP-68	SOIL	Fluoranthene		540.000		32.4	180	ug/Kg
Q2458-03	TP-68	SOIL	Pyrene		390.000		38.9	180	ug/Kg
Q2458-03	TP-68	SOIL	Benzo(a)anthracene		340.000		24.9	180	ug/Kg
Q2458-03	TP-68	SOIL	Chrysene		290.000		21.5	180	ug/Kg
Q2458-03	TP-68	SOIL	Benzo(b)fluoranthene		440.000		20.6	180	ug/Kg
Q2458-03	TP-68	SOIL	Benzo(a)pyrene		270.000		31.9	180	ug/Kg
Q2458-03	TP-68	SOIL	Indeno(1,2,3-cd)pyrene		74.000	J	31.5	180	ug/Kg
Q2458-03	TP-68	SOIL	Benzo(g,h,i)perylene		95.200	J	27.8	180	ug/Kg
			Total Svoc :		**2,649.20**				
Q2458-03	TP-68	SOIL	11H-Benzo[a]fluoren-11-one	*	82.200	J	0	0	ug/Kg
Q2458-03	TP-68	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	210.000	AB	0	0	ug/Kg
Q2458-03	TP-68	SOIL	4H-Cyclopenta[def]phenanthrene	*	140.000	J	0	0	ug/Kg
Q2458-03	TP-68	SOIL	Anthracene, 1-methyl-	*	200.000	J	0	0	ug/Kg
Q2458-03	TP-68	SOIL	Pyrene, 1-methyl-	*	76.400	J	0	0	ug/Kg
Q2458-03	TP-68	SOIL	unknown17.356	*	88.000	J	0	0	ug/Kg
Q2458-03	TP-68	SOIL	Benzo[e]pyrene	*	190.000	J	0	0	ug/Kg
Q2458-03	TP-68	SOIL	Benzophenone	*	170.000	J	0	0	ug/Kg
			Total Tics :		**1,156.60**				
			Total Concentration:		**3,805.80**				
Client ID :	**TP-67**								
Q2458-04	TP-67	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	280.000	AB	0	0	ug/Kg
Q2458-04	TP-67	SOIL	Benzophenone	*	250.000	J	0	0	ug/Kg
Q2458-04	TP-67	SOIL	Heptafluorobutyric acid, pentadec	*	210.000	J	0	0	ug/Kg
Q2458-04	TP-67	SOIL	n-Hexadecanoic acid	*	130.000	J	0	0	ug/Kg
			Total Tics :		**870.00**				
			Total Concentration:		**870.00**				
Client ID :	**TP-66**								
Q2458-05	TP-66	SOIL	Phenanthrene		120.000	J	23.6	190	ug/Kg
Q2458-05	TP-66	SOIL	Fluoranthene		620.000		33.9	190	ug/Kg
Q2458-05	TP-66	SOIL	Pyrene		650.000		40.7	190	ug/Kg
Q2458-05	TP-66	SOIL	Benzo(a)anthracene		550.000		26	190	ug/Kg
Q2458-05	TP-66	SOIL	Chrysene		570.000		22.5	190	ug/Kg
Q2458-05	TP-66	SOIL	Benzo(b)fluoranthene		770.000		21.5	190	ug/Kg

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

Hit Summary Sheet
SW-846

SDG No.: Q2458

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q2458-05	TP-66	SOIL	Benzo(k)fluoranthene		240.000		25.3	190	ug/Kg
Q2458-05	TP-66	SOIL	Benzo(a)pyrene		540.000		33.3	190	ug/Kg
Q2458-05	TP-66	SOIL	Indeno(1,2,3-cd)pyrene		170.000	J	32.9	190	ug/Kg
Q2458-05	TP-66	SOIL	Benzo(g,h,i)perylene		210.000		29	190	ug/Kg
			Total Svoc :		**4,440.00**				
Q2458-05	TP-66	SOIL	11H-Benzo[a]fluoren-11-one	*	82.900	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	11H-Benzo[b]fluorene	*	82.500	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	200.000	AB	0	0	ug/Kg
Q2458-05	TP-66	SOIL	4H-Cyclopenta[def]phenanthrene	*	130.000	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	6H-Benz[de]anthracen-6-one	*	110.000	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Anthracene, 1-methyl-	*	77.200	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Anthracene, 2-methyl-	*	160.000	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Benz[a]anthracene, 7-methyl-	*	130.000	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Benzo[b]naphtho[2,1-d]thiophene	*	93.000	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Benzo[e]pyrene	*	410.000	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Benzophenone	*	180.000	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Pyrene, 1-methyl-	*	120.000	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Pyrene, 2-methyl-	*	110.000	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Pyrene, 4-methyl-	*	81.700	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	unknown12.545	*	97.200	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Fluoranthene, 2-methyl-	*	160.000	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Perylene	*	76.100	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Phenanthrene, 2,5-dimethyl-	*	170.000	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Phenanthrene, 3,6-dimethyl-	*	100.000	J	0	0	ug/Kg
			Total Tics :		**2,570.60**				
			Total Concentration:		**7,010.60**				
Client ID :	**TP-60**								
Q2458-06	TP-60	SOIL	Phenanthrene		150.000	J	22.6	180	ug/Kg
Q2458-06	TP-60	SOIL	Fluoranthene		750.000		32.4	180	ug/Kg
Q2458-06	TP-60	SOIL	Pyrene		460.000		38.9	180	ug/Kg
Q2458-06	TP-60	SOIL	Benzo(a)anthracene		360.000		24.8	180	ug/Kg
Q2458-06	TP-60	SOIL	Chrysene		360.000		21.5	180	ug/Kg
Q2458-06	TP-60	SOIL	Benzo(b)fluoranthene		590.000		20.5	180	ug/Kg
Q2458-06	TP-60	SOIL	Benzo(k)fluoranthene		240.000		24.2	180	ug/Kg
Q2458-06	TP-60	SOIL	Benzo(a)pyrene		400.000		31.8	180	ug/Kg
Q2458-06	TP-60	SOIL	Indeno(1,2,3-cd)pyrene		200.000		31.4	180	ug/Kg
Q2458-06	TP-60	SOIL	Benzo(g,h,i)perylene		270.000		27.7	180	ug/Kg
			Total Svoc :		**3,780.00**				
Q2458-06	TP-60	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	210.000	AB	0	0	ug/Kg
Q2458-06	TP-60	SOIL	4H-Cyclopenta[def]phenanthrene	*	100.000	J	0	0	ug/Kg

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

Hit Summary Sheet
SW-846

SDG No.: Q2458

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q2458-06	TP-60	SOIL	Benzophenone	*	200.000	J	0	0	ug/Kg
Q2458-06	TP-60	SOIL	Biphenylene	*	76.300	J	0	0	ug/Kg
Q2458-06	TP-60	SOIL	Tridecane, 5-propyl-	*	75.200	J	0	0	ug/Kg
Q2458-06	TP-60	SOIL	n-Hexadecanoic acid	*	330.000	J	0	0	ug/Kg
			Total Tics :		**991.50**				
			Total Concentration:		**4,771.50**				
Client ID :	**TP-62**								
Q2458-07	TP-62	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	190.000	AB	0	0	ug/Kg
Q2458-07	TP-62	SOIL	Benzophenone	*	160.000	J	0	0	ug/Kg
Q2458-07	TP-62	SOIL	Heptadecyl heptafluorobutyrate	*	190.000	J	0	0	ug/Kg
Q2458-07	TP-62	SOIL	n-Hexadecanoic acid	*	310.000	J	0	0	ug/Kg
			Total Tics :		**850.00**				
			Total Concentration:		**850.00**				
Client ID :	**TP-63**								
Q2458-08	TP-63	SOIL	Phenanthrene		970.000	J	120	980	ug/Kg
Q2458-08	TP-63	SOIL	Fluoranthene		1,700.000		170	980	ug/Kg
Q2458-08	TP-63	SOIL	Pyrene		1,000.000		210	980	ug/Kg
Q2458-08	TP-63	SOIL	Benzo(a)anthracene		590.000	J	130	980	ug/Kg
Q2458-08	TP-63	SOIL	Chrysene		510.000	J	110	980	ug/Kg
Q2458-08	TP-63	SOIL	Benzo(b)fluoranthene		650.000	J	110	980	ug/Kg
Q2458-08	TP-63	SOIL	Benzo(a)pyrene		530.000	J	170	980	ug/Kg
			Total Svoc :		**5,950.00**				
Q2458-08	TP-63	SOIL	Phenanthrene, 2-methyl-	*	400.000	J	0	0	ug/Kg
			Total Tics :		**400.00**				
			Total Concentration:		**6,350.00**				
Client ID :	**TP-59**								
Q2458-09	TP-59	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	250.000	AB	0	0	ug/Kg
Q2458-09	TP-59	SOIL	Benzene, 1,1-methylenebis[2-metl	*	99.800	J	0	0	ug/Kg
Q2458-09	TP-59	SOIL	Benzophenone	*	280.000	J	0	0	ug/Kg
Q2458-09	TP-59	SOIL	Heptafluorobutyric acid, pentadec	*	280.000	J	0	0	ug/Kg
Q2458-09	TP-59	SOIL	n-Hexadecanoic acid	*	120.000	J	0	0	ug/Kg
			Total Tics :		**1,029.80**				
			Total Concentration:		**1,029.80**				
Client ID :	**FB-06272025**								
Q2458-10	FB-06272025	WATER	2,4,7,9-Tetramethyl-5-decyn-4,7-c	*	2.600	J	0	0	ug/L
Q2458-10	FB-06272025	WATER	2,4-Diethyl-6-methyl-1,3,5-trioxa	*	3.900	J	0	0	ug/L
Q2458-10	FB-06272025	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	4.300	AB	0	0	ug/L
Q2458-10	FB-06272025	WATER	2-Propanol, 1,1-[(1-methyl-1,2-et	*	2.700	J	0	0	ug/L
			Total Tics :		**13.50**				

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

Hit Summary Sheet
SW-846

SDG No.: Q2458

Client: CDM Smith

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
		Total Concentration:	**13.50**				

SAMPLE DATA

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-76	SDG No.:	Q2458
Lab Sample ID:	Q2458-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.6
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
BF142978.D	1	07/01/25 09:30	07/02/25 18:50	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	360	ug/Kg
108-95-2	Phenol	24.4	U	24.4	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	26.8	U	26.8	190	ug/Kg
95-57-8	2-Chlorophenol	26.9	U	26.9	190	ug/Kg
95-48-7	2-Methylphenol	33.0	U	33.0	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	41.3	U	41.3	190	ug/Kg
98-86-2	Acetophenone	32.5	U	32.5	190	ug/Kg
65794-96-9	3+4-Methylphenols	45.3	U	45.3	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	52.2	U	52.2	88.2	ug/Kg
67-72-1	Hexachloroethane	19.4	U	19.4	190	ug/Kg
98-95-3	Nitrobenzene	20.2	U	20.2	190	ug/Kg
78-59-1	Isophorone	36.2	U	36.2	190	ug/Kg
88-75-5	2-Nitrophenol	64.2	U	64.2	190	ug/Kg
105-67-9	2,4-Dimethylphenol	71.4	U	71.4	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	34.0	U	34.0	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.2	U	31.2	190	ug/Kg
91-20-3	Naphthalene	25.0	U	25.0	190	ug/Kg
106-47-8	4-Chloroaniline	39.0	U	39.0	190	ug/Kg
87-68-3	Hexachlorobutadiene	27.9	U	27.9	190	ug/Kg
105-60-2	Caprolactam	57.4	U	57.4	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	31.6	U	31.6	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.2	U	28.2	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	21.8	U	21.8	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.1	U	32.1	190	ug/Kg
92-52-4	1,1-Biphenyl	24.0	U	24.0	190	ug/Kg
91-58-7	2-Chloronaphthalene	24.8	U	24.8	190	ug/Kg
88-74-4	2-Nitroaniline	53.0	U	53.0	190	ug/Kg
131-11-3	Dimethylphthalate	29.9	U	29.9	190	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-76	SDG No.:	Q2458
Lab Sample ID:	Q2458-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.6
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
BF142978.D	1	07/01/25 09:30	07/02/25 18:50	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	31.9	U	31.9	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.0	U	37.0	190	ug/Kg
99-09-2	3-Nitroaniline	50.7	U	50.7	190	ug/Kg
83-32-9	Acenaphthene	23.5	U	23.5	190	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	360	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	360	ug/Kg
132-64-9	Dibenzofuran	25.0	U	25.0	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	55.2	U	55.2	190	ug/Kg
84-66-2	Diethylphthalate	31.2	U	31.2	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	29.4	U	29.4	190	ug/Kg
86-73-7	Fluorene	27.9	U	27.9	190	ug/Kg
100-01-6	4-Nitroaniline	70.8	U	70.8	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	36.3	U	36.3	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	30.6	U	30.6	190	ug/Kg
118-74-1	Hexachlorobenzene	27.9	U	27.9	190	ug/Kg
1912-24-9	Atrazine	37.5	U	37.5	190	ug/Kg
87-86-5	Pentachlorophenol	56.5	U	56.5	360	ug/Kg
85-01-8	Phenanthrene	130	J	23.0	190	ug/Kg
120-12-7	Anthracene	36.7	U	36.7	190	ug/Kg
86-74-8	Carbazole	34.4	U	34.4	190	ug/Kg
84-74-2	Di-n-butylphthalate	52.8	U	52.8	190	ug/Kg
206-44-0	Fluoranthene	380		33.1	190	ug/Kg
129-00-0	Pyrene	390		39.7	190	ug/Kg
85-68-7	Butylbenzylphthalate	78.7	UQ	78.7	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	40.5	U	40.5	360	ug/Kg
56-55-3	Benzo(a)anthracene	320		25.4	190	ug/Kg
218-01-9	Chrysene	320		21.9	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	65.3	U	65.3	190	ug/Kg
117-84-0	Di-n-octyl phthalate	95.7	U	95.7	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	450		20.9	190	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-76	SDG No.:	Q2458
Lab Sample ID:	Q2458-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.6
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
BF142978.D	1	07/01/25 09:30	07/02/25 18:50	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	140	J	24.7	190	ug/Kg
50-32-8	Benzo(a)pyrene	310		32.5	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	110	J	32.1	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	30.2	U	30.2	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	150	J	28.3	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.2	U	28.2	190	ug/Kg
123-91-1	1,4-Dioxane	49.8	U	49.8	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	30.2	U	30.2	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	80.3		18 - 112	54%	SPK: 150
13127-88-3	Phenol-d6	82.8		15 - 107	55%	SPK: 150
4165-60-0	Nitrobenzene-d5	51.7		18 - 107	52%	SPK: 100
321-60-8	2-Fluorobiphenyl	53.5		20 - 109	53%	SPK: 100
118-79-6	2,4,6-Tribromophenol	79.4		10 - 116	53%	SPK: 150
1718-51-0	Terphenyl-d14	37.0		10 - 105	37%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	60800	6.869			
1146-65-2	Naphthalene-d8	231000	8.157			
15067-26-2	Acenaphthene-d10	119000	9.91			
1517-22-2	Phenanthrene-d10	178000	11.404			
1719-03-5	Chrysene-d12	133000	14.051			
1520-96-3	Perylene-d12	117000	15.539			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	220	AB		5.08	ug/Kg
000119-61-9	Benzophenone	210	J		10.6	ug/Kg
000832-69-9	Phenanthrene, 1-methyl-	250	J		11.9	ug/Kg
000610-48-0	Anthracene, 1-methyl-	88.9	J		12.0	ug/Kg
000781-43-1	9,10-Dimethylanthracene	130	J		12.5	ug/Kg
001576-69-8	Phenanthrene, 2,7-dimethyl-	85.2	J		12.5	ug/Kg
002381-21-7	Pyrene, 1-methyl-	81.2	J		13.1	ug/Kg

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

Report of Analysis

Client:	CDM Smith			Date Collected:	06/26/25
Project:	South River WM Replacement			Date Received:	06/27/25
Client Sample ID:	TP-76			SDG No.:	Q2458
Lab Sample ID:	Q2458-01			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	90.6
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
BF142978.D	1	07/01/25 09:30	07/02/25 18:50	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
033543-31-6	Fluoranthene, 2-methyl-	77.9	J		13.2	ug/Kg
000479-79-8	11H-Benzo[a]fluoren-11-one	130	J		13.9	ug/Kg
000192-97-2	Benzo[e]pyrene	250	J		15.4	ug/Kg
	unknown16.698	92.2	J		16.7	ug/Kg

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

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-55	SDG No.:	Q2458
Lab Sample ID:	Q2458-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.4
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142985.D	1	07/01/25 09:30	07/02/25 22:22	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	360	ug/Kg
108-95-2	Phenol	24.1	U	24.1	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	26.5	U	26.5	190	ug/Kg
95-57-8	2-Chlorophenol	26.6	U	26.6	190	ug/Kg
95-48-7	2-Methylphenol	32.6	U	32.6	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	40.9	U	40.9	190	ug/Kg
98-86-2	Acetophenone	32.2	U	32.2	190	ug/Kg
65794-96-9	3+4-Methylphenols	44.8	U	44.8	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	51.7	U	51.7	87.3	ug/Kg
67-72-1	Hexachloroethane	19.2	U	19.2	190	ug/Kg
98-95-3	Nitrobenzene	20.0	U	20.0	190	ug/Kg
78-59-1	Isophorone	35.8	U	35.8	190	ug/Kg
88-75-5	2-Nitrophenol	63.5	U	63.5	190	ug/Kg
105-67-9	2,4-Dimethylphenol	70.7	U	70.7	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	33.6	U	33.6	190	ug/Kg
120-83-2	2,4-Dichlorophenol	30.9	U	30.9	190	ug/Kg
91-20-3	Naphthalene	24.8	U	24.8	190	ug/Kg
106-47-8	4-Chloroaniline	38.6	U	38.6	190	ug/Kg
87-68-3	Hexachlorobutadiene	27.6	U	27.6	190	ug/Kg
105-60-2	Caprolactam	56.8	U	56.8	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	31.3	U	31.3	190	ug/Kg
91-57-6	2-Methylnaphthalene	27.9	U	27.9	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	21.6	U	21.6	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	31.7	U	31.7	190	ug/Kg
92-52-4	1,1-Biphenyl	23.8	U	23.8	190	ug/Kg
91-58-7	2-Chloronaphthalene	24.5	U	24.5	190	ug/Kg
88-74-4	2-Nitroaniline	52.5	U	52.5	190	ug/Kg
131-11-3	Dimethylphthalate	29.6	U	29.6	190	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-55	SDG No.:	Q2458
Lab Sample ID:	Q2458-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.4
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142985.D	1	07/01/25 09:30	07/02/25 22:22	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	31.5	U	31.5	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	36.7	U	36.7	190	ug/Kg
99-09-2	3-Nitroaniline	50.2	U	50.2	190	ug/Kg
83-32-9	Acenaphthene	23.2	U	23.2	190	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	360	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	360	ug/Kg
132-64-9	Dibenzofuran	24.8	U	24.8	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	54.7	U	54.7	190	ug/Kg
84-66-2	Diethylphthalate	30.9	U	30.9	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	29.1	U	29.1	190	ug/Kg
86-73-7	Fluorene	27.6	U	27.6	190	ug/Kg
100-01-6	4-Nitroaniline	70.0	U	70.0	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	35.9	U	35.9	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	30.3	U	30.3	190	ug/Kg
118-74-1	Hexachlorobenzene	27.6	U	27.6	190	ug/Kg
1912-24-9	Atrazine	37.1	U	37.1	190	ug/Kg
87-86-5	Pentachlorophenol	56.0	U	56.0	360	ug/Kg
85-01-8	Phenanthrene	22.8	U	22.8	190	ug/Kg
120-12-7	Anthracene	36.3	U	36.3	190	ug/Kg
86-74-8	Carbazole	34.0	U	34.0	190	ug/Kg
84-74-2	Di-n-butylphthalate	52.3	U	52.3	190	ug/Kg
206-44-0	Fluoranthene	190		32.7	190	ug/Kg
129-00-0	Pyrene	200		39.3	190	ug/Kg
85-68-7	Butylbenzylphthalate	77.9	UQ	77.9	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	40.0	U	40.0	360	ug/Kg
56-55-3	Benzo(a)anthracene	170	J	25.1	190	ug/Kg
218-01-9	Chrysene	140	J	21.7	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	64.6	U	64.6	190	ug/Kg
117-84-0	Di-n-octyl phthalate	94.7	U	94.7	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	270		20.7	190	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-55	SDG No.:	Q2458
Lab Sample ID:	Q2458-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.4
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142985.D	1	07/01/25 09:30	07/02/25 22:22	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	98.3	J	24.4	190	ug/Kg
50-32-8	Benzo(a)pyrene	200		32.2	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	93.1	J	31.7	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	29.9	U	29.9	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	130	J	28.0	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	27.9	U	27.9	190	ug/Kg
123-91-1	1,4-Dioxane	49.3	U	49.3	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	29.9	U	29.9	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	77.6		18 - 112	52%	SPK: 150
13127-88-3	Phenol-d6	76.8		15 - 107	51%	SPK: 150
4165-60-0	Nitrobenzene-d5	52.9		18 - 107	53%	SPK: 100
321-60-8	2-Fluorobiphenyl	55.6		20 - 109	56%	SPK: 100
118-79-6	2,4,6-Tribromophenol	82.2		10 - 116	55%	SPK: 150
1718-51-0	Terphenyl-d14	52.0		10 - 105	52%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	53300	6.869			
1146-65-2	Naphthalene-d8	185000	8.157			
15067-26-2	Acenaphthene-d10	86900	9.91			
1517-22-2	Phenanthrene-d10	146000	11.404			
1719-03-5	Chrysene-d12	91200	14.051			
1520-96-3	Perylene-d12	69800	15.545			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	210	AB		5.08	ug/Kg
000119-61-9	Benzophenone	210	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	260	J		11.9	ug/Kg
006222-03-3	Trifluoroacetoxy hexadecane	130	J		13.9	ug/Kg

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

Report of Analysis

Client:	CDM Smith			Date Collected:	06/26/25
Project:	South River WM Replacement			Date Received:	06/27/25
Client Sample ID:	TP-55			SDG No.:	Q2458
Lab Sample ID:	Q2458-02			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	91.4
Sample Wt/Vol:	30.09	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142985.D	1	07/01/25 09:30	07/02/25 22:22	PB168674

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-68	SDG No.:	Q2458
Lab Sample ID:	Q2458-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142979.D	1	07/01/25 09:30	07/02/25 19:21	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	360	ug/Kg
108-95-2	Phenol	23.9	U	23.9	180	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	26.3	U	26.3	180	ug/Kg
95-57-8	2-Chlorophenol	26.4	U	26.4	180	ug/Kg
95-48-7	2-Methylphenol	32.3	U	32.3	180	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	40.6	U	40.6	180	ug/Kg
98-86-2	Acetophenone	31.9	U	31.9	180	ug/Kg
65794-96-9	3+4-Methylphenols	44.5	U	44.5	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	51.3	U	51.3	86.5	ug/Kg
67-72-1	Hexachloroethane	19.0	U	19.0	180	ug/Kg
98-95-3	Nitrobenzene	19.8	U	19.8	180	ug/Kg
78-59-1	Isophorone	35.5	U	35.5	180	ug/Kg
88-75-5	2-Nitrophenol	63.0	U	63.0	180	ug/Kg
105-67-9	2,4-Dimethylphenol	70.1	U	70.1	180	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	33.3	U	33.3	180	ug/Kg
120-83-2	2,4-Dichlorophenol	30.6	U	30.6	180	ug/Kg
91-20-3	Naphthalene	24.6	U	24.6	180	ug/Kg
106-47-8	4-Chloroaniline	38.3	U	38.3	180	ug/Kg
87-68-3	Hexachlorobutadiene	27.4	U	27.4	180	ug/Kg
105-60-2	Caprolactam	56.4	U	56.4	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	31.0	U	31.0	180	ug/Kg
91-57-6	2-Methylnaphthalene	27.7	U	27.7	180	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	21.4	U	21.4	180	ug/Kg
95-95-4	2,4,5-Trichlorophenol	31.5	U	31.5	180	ug/Kg
92-52-4	1,1-Biphenyl	23.6	U	23.6	180	ug/Kg
91-58-7	2-Chloronaphthalene	24.3	U	24.3	180	ug/Kg
88-74-4	2-Nitroaniline	52.0	U	52.0	180	ug/Kg
131-11-3	Dimethylphthalate	29.3	U	29.3	180	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-68	SDG No.:	Q2458
Lab Sample ID:	Q2458-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142979.D	1	07/01/25 09:30	07/02/25 19:21	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	31.3	U	31.3	180	ug/Kg
606-20-2	2,6-Dinitrotoluene	36.3	U	36.3	180	ug/Kg
99-09-2	3-Nitroaniline	49.8	U	49.8	180	ug/Kg
83-32-9	Acenaphthene	23.0	U	23.0	180	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	360	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	360	ug/Kg
132-64-9	Dibenzofuran	24.6	U	24.6	180	ug/Kg
121-14-2	2,4-Dinitrotoluene	54.2	U	54.2	180	ug/Kg
84-66-2	Diethylphthalate	30.6	U	30.6	180	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	28.9	U	28.9	180	ug/Kg
86-73-7	Fluorene	27.4	U	27.4	180	ug/Kg
100-01-6	4-Nitroaniline	69.4	U	69.4	180	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	35.6	U	35.6	180	ug/Kg
101-55-3	4-Bromophenyl-phenylether	30.1	U	30.1	180	ug/Kg
118-74-1	Hexachlorobenzene	27.4	U	27.4	180	ug/Kg
1912-24-9	Atrazine	36.8	U	36.8	180	ug/Kg
87-86-5	Pentachlorophenol	55.5	U	55.5	360	ug/Kg
85-01-8	Phenanthrene	210		22.6	180	ug/Kg
120-12-7	Anthracene	36.0	U	36.0	180	ug/Kg
86-74-8	Carbazole	33.7	U	33.7	180	ug/Kg
84-74-2	Di-n-butylphthalate	51.8	U	51.8	180	ug/Kg
206-44-0	Fluoranthene	540		32.4	180	ug/Kg
129-00-0	Pyrene	390		38.9	180	ug/Kg
85-68-7	Butylbenzylphthalate	77.2	UQ	77.2	180	ug/Kg
91-94-1	3,3-Dichlorobenzidine	39.7	U	39.7	360	ug/Kg
56-55-3	Benzo(a)anthracene	340		24.9	180	ug/Kg
218-01-9	Chrysene	290		21.5	180	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	64.0	U	64.0	180	ug/Kg
117-84-0	Di-n-octyl phthalate	93.9	U	93.9	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	440		20.6	180	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-68	SDG No.:	Q2458
Lab Sample ID:	Q2458-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142979.D	1	07/01/25 09:30	07/02/25 19:21	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	24.2	U	24.2	180	ug/Kg
50-32-8	Benzo(a)pyrene	270		31.9	180	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	74.0	J	31.5	180	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	29.6	U	29.6	180	ug/Kg
191-24-2	Benzo(g,h,i)perylene	95.2	J	27.8	180	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	27.7	U	27.7	180	ug/Kg
123-91-1	1,4-Dioxane	48.9	U	48.9	180	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	29.6	U	29.6	180	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	77.3		18 - 112	52%	SPK: 150
13127-88-3	Phenol-d6	75.8		15 - 107	51%	SPK: 150
4165-60-0	Nitrobenzene-d5	46.9		18 - 107	47%	SPK: 100
321-60-8	2-Fluorobiphenyl	46.9		20 - 109	47%	SPK: 100
118-79-6	2,4,6-Tribromophenol	67.4		10 - 116	45%	SPK: 150
1718-51-0	Terphenyl-d14	31.9		10 - 105	32%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	60600	6.869			
1146-65-2	Naphthalene-d8	232000	8.157			
15067-26-2	Acenaphthene-d10	116000	9.91			
1517-22-2	Phenanthrene-d10	162000	11.404			
1719-03-5	Chrysene-d12	127000	14.051			
1520-96-3	Perylene-d12	112000	15.539			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	210	AB		5.08	ug/Kg
000119-61-9	Benzophenone	170	J		10.6	ug/Kg
000610-48-0	Anthracene, 1-methyl-	200	J		11.9	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	140	J		12.0	ug/Kg
002381-21-7	Pyrene, 1-methyl-	76.4	J		13.2	ug/Kg
000479-79-8	11H-Benzo[a]fluoren-11-one	82.2	J		13.9	ug/Kg
000192-97-2	Benzo[e]pyrene	190	J		15.4	ug/Kg

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

Report of Analysis

Client:	CDM Smith			Date Collected:	06/27/25
Project:	South River WM Replacement			Date Received:	06/27/25
Client Sample ID:	TP-68			SDG No.:	Q2458
Lab Sample ID:	Q2458-03			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	92.3
Sample Wt/Vol:	30.05	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142979.D	1	07/01/25 09:30	07/02/25 19:21	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
	unknown17.356	88.0	J		17.4	ug/Kg

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

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67	SDG No.:	Q2458
Lab Sample ID:	Q2458-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.7
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
BF142969.D	1	07/01/25 09:30	07/02/25 14:17	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	370	ug/Kg
108-95-2	Phenol	24.6	U	24.6	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	27.1	U	27.1	190	ug/Kg
95-57-8	2-Chlorophenol	27.2	U	27.2	190	ug/Kg
95-48-7	2-Methylphenol	33.3	U	33.3	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	41.8	U	41.8	190	ug/Kg
98-86-2	Acetophenone	32.9	U	32.9	190	ug/Kg
65794-96-9	3+4-Methylphenols	45.8	U	45.8	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	52.8	U	52.8	89.1	ug/Kg
67-72-1	Hexachloroethane	19.6	U	19.6	190	ug/Kg
98-95-3	Nitrobenzene	20.4	U	20.4	190	ug/Kg
78-59-1	Isophorone	36.5	U	36.5	190	ug/Kg
88-75-5	2-Nitrophenol	64.8	U	64.8	190	ug/Kg
105-67-9	2,4-Dimethylphenol	72.2	U	72.2	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	34.3	U	34.3	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.5	U	31.5	190	ug/Kg
91-20-3	Naphthalene	25.3	U	25.3	190	ug/Kg
106-47-8	4-Chloroaniline	39.4	U	39.4	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.2	U	28.2	190	ug/Kg
105-60-2	Caprolactam	58.0	U	58.0	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	32.0	U	32.0	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.5	U	28.5	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.1	U	22.1	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.4	U	32.4	190	ug/Kg
92-52-4	1,1-Biphenyl	24.3	U	24.3	190	ug/Kg
91-58-7	2-Chloronaphthalene	25.1	U	25.1	190	ug/Kg
88-74-4	2-Nitroaniline	53.6	U	53.6	190	ug/Kg
131-11-3	Dimethylphthalate	30.2	U	30.2	190	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67	SDG No.:	Q2458
Lab Sample ID:	Q2458-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.7
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
BF142969.D	1	07/01/25 09:30	07/02/25 14:17	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	32.2	U	32.2	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.4	U	37.4	190	ug/Kg
99-09-2	3-Nitroaniline	51.2	U	51.2	190	ug/Kg
83-32-9	Acenaphthene	23.7	U	23.7	190	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	370	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	370	ug/Kg
132-64-9	Dibenzofuran	25.3	U	25.3	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	55.8	U	55.8	190	ug/Kg
84-66-2	Diethylphthalate	31.5	U	31.5	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	29.7	U	29.7	190	ug/Kg
86-73-7	Fluorene	28.2	U	28.2	190	ug/Kg
100-01-6	4-Nitroaniline	71.5	U	71.5	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	36.7	U	36.7	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	31.0	U	31.0	190	ug/Kg
118-74-1	Hexachlorobenzene	28.2	U	28.2	190	ug/Kg
1912-24-9	Atrazine	37.9	U	37.9	190	ug/Kg
87-86-5	Pentachlorophenol	57.2	U	57.2	370	ug/Kg
85-01-8	Phenanthrene	23.3	U	23.3	190	ug/Kg
120-12-7	Anthracene	37.1	U	37.1	190	ug/Kg
86-74-8	Carbazole	34.8	U	34.8	190	ug/Kg
84-74-2	Di-n-butylphthalate	53.4	U	53.4	190	ug/Kg
206-44-0	Fluoranthene	33.4	U	33.4	190	ug/Kg
129-00-0	Pyrene	40.1	U	40.1	190	ug/Kg
85-68-7	Butylbenzylphthalate	79.5	UQ	79.5	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	40.9	U	40.9	370	ug/Kg
56-55-3	Benzo(a)anthracene	25.6	U	25.6	190	ug/Kg
218-01-9	Chrysene	22.2	U	22.2	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	66.0	U	66.0	190	ug/Kg
117-84-0	Di-n-octyl phthalate	96.7	U	96.7	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	21.2	U	21.2	190	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67	SDG No.:	Q2458
Lab Sample ID:	Q2458-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.7
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
BF142969.D	1	07/01/25 09:30	07/02/25 14:17	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	25.0	U	25.0	190	ug/Kg
50-32-8	Benzo(a)pyrene	32.9	U	32.9	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	32.4	U	32.4	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	30.5	U	30.5	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	28.6	U	28.6	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.5	U	28.5	190	ug/Kg
123-91-1	1,4-Dioxane	50.4	U	50.4	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	30.5	U	30.5	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	87.4		18 - 112	58%	SPK: 150
13127-88-3	Phenol-d6	88.6		15 - 107	59%	SPK: 150
4165-60-0	Nitrobenzene-d5	53.7		18 - 107	54%	SPK: 100
321-60-8	2-Fluorobiphenyl	55.9		20 - 109	56%	SPK: 100
118-79-6	2,4,6-Tribromophenol	94.1		10 - 116	63%	SPK: 150
1718-51-0	Terphenyl-d14	57.0		10 - 105	57%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	53000	6.869			
1146-65-2	Naphthalene-d8	206000	8.157			
15067-26-2	Acenaphthene-d10	108000	9.916			
1517-22-2	Phenanthrene-d10	194000	11.404			
1719-03-5	Chrysene-d12	118000	14.051			
1520-96-3	Perylene-d12	101000	15.545			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	280	AB		5.08	ug/Kg
000119-61-9	Benzophenone	250	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	130	J		11.9	ug/Kg
959261-23-5	Heptafluorobutyric acid, pentadecy	210	J		13.9	ug/Kg

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

Report of Analysis

Client:	CDM Smith			Date Collected:	06/27/25
Project:	South River WM Replacement			Date Received:	06/27/25
Client Sample ID:	TP-67			SDG No.:	Q2458
Lab Sample ID:	Q2458-04			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	89.7
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
BF142969.D	1	07/01/25 09:30	07/02/25 14:17	PB168674

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-66	SDG No.:	Q2458
Lab Sample ID:	Q2458-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.3
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
BF142977.D	1	07/01/25 09:30	07/02/25 18:20	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	370	ug/Kg
108-95-2	Phenol	25.0	U	25.0	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	27.5	U	27.5	190	ug/Kg
95-57-8	2-Chlorophenol	27.6	U	27.6	190	ug/Kg
95-48-7	2-Methylphenol	33.8	U	33.8	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	42.4	U	42.4	190	ug/Kg
98-86-2	Acetophenone	33.3	U	33.3	190	ug/Kg
65794-96-9	3+4-Methylphenols	46.4	U	46.4	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	53.6	U	53.6	90.4	ug/Kg
67-72-1	Hexachloroethane	19.9	U	19.9	190	ug/Kg
98-95-3	Nitrobenzene	20.7	U	20.7	190	ug/Kg
78-59-1	Isophorone	37.1	U	37.1	190	ug/Kg
88-75-5	2-Nitrophenol	65.8	U	65.8	190	ug/Kg
105-67-9	2,4-Dimethylphenol	73.2	U	73.2	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	34.8	U	34.8	190	ug/Kg
120-83-2	2,4-Dichlorophenol	32.0	U	32.0	190	ug/Kg
91-20-3	Naphthalene	25.6	U	25.6	190	ug/Kg
106-47-8	4-Chloroaniline	40.0	U	40.0	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.6	U	28.6	190	ug/Kg
105-60-2	Caprolactam	58.9	U	58.9	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	32.4	U	32.4	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.9	U	28.9	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.4	U	22.4	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.9	U	32.9	190	ug/Kg
92-52-4	1,1-Biphenyl	24.6	U	24.6	190	ug/Kg
91-58-7	2-Chloronaphthalene	25.4	U	25.4	190	ug/Kg
88-74-4	2-Nitroaniline	54.3	U	54.3	190	ug/Kg
131-11-3	Dimethylphthalate	30.6	U	30.6	190	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-66	SDG No.:	Q2458
Lab Sample ID:	Q2458-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.3
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
BF142977.D	1	07/01/25 09:30	07/02/25 18:20	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	32.7	U	32.7	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	38.0	U	38.0	190	ug/Kg
99-09-2	3-Nitroaniline	52.0	U	52.0	190	ug/Kg
83-32-9	Acenaphthene	24.1	U	24.1	190	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	370	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	370	ug/Kg
132-64-9	Dibenzofuran	25.6	U	25.6	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	56.6	U	56.6	190	ug/Kg
84-66-2	Diethylphthalate	32.0	U	32.0	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	30.2	U	30.2	190	ug/Kg
86-73-7	Fluorene	28.6	U	28.6	190	ug/Kg
100-01-6	4-Nitroaniline	72.5	U	72.5	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	37.2	U	37.2	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	31.4	U	31.4	190	ug/Kg
118-74-1	Hexachlorobenzene	28.6	U	28.6	190	ug/Kg
1912-24-9	Atrazine	38.4	U	38.4	190	ug/Kg
87-86-5	Pentachlorophenol	58.0	U	58.0	370	ug/Kg
85-01-8	Phenanthrene	120	J	23.6	190	ug/Kg
120-12-7	Anthracene	37.6	U	37.6	190	ug/Kg
86-74-8	Carbazole	35.3	U	35.3	190	ug/Kg
84-74-2	Di-n-butylphthalate	54.1	U	54.1	190	ug/Kg
206-44-0	Fluoranthene	620		33.9	190	ug/Kg
129-00-0	Pyrene	650		40.7	190	ug/Kg
85-68-7	Butylbenzylphthalate	80.7	UQ	80.7	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	41.5	U	41.5	370	ug/Kg
56-55-3	Benzo(a)anthracene	550		26.0	190	ug/Kg
218-01-9	Chrysene	570		22.5	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	66.9	U	66.9	190	ug/Kg
117-84-0	Di-n-octyl phthalate	98.1	U	98.1	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	770		21.5	190	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-66	SDG No.:	Q2458
Lab Sample ID:	Q2458-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.3
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
BF142977.D	1	07/01/25 09:30	07/02/25 18:20	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	240		25.3	190	ug/Kg
50-32-8	Benzo(a)pyrene	540		33.3	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	170	J	32.9	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	31.0	U	31.0	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	210		29.0	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.9	U	28.9	190	ug/Kg
123-91-1	1,4-Dioxane	51.1	U	51.1	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.0	U	31.0	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	69.3		18 - 112	46%	SPK: 150
13127-88-3	Phenol-d6	71.3		15 - 107	48%	SPK: 150
4165-60-0	Nitrobenzene-d5	44.3		18 - 107	44%	SPK: 100
321-60-8	2-Fluorobiphenyl	41.9		20 - 109	42%	SPK: 100
118-79-6	2,4,6-Tribromophenol	64.0		10 - 116	43%	SPK: 150
1718-51-0	Terphenyl-d14	28.5		10 - 105	28%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	55700	6.869			
1146-65-2	Naphthalene-d8	210000	8.157			
15067-26-2	Acenaphthene-d10	106000	9.91			
1517-22-2	Phenanthrene-d10	155000	11.404			
1719-03-5	Chrysene-d12	111000	14.051			
1520-96-3	Perylene-d12	102000	15.539			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	200	AB		5.08	ug/Kg
000119-61-9	Benzophenone	180	J		10.6	ug/Kg
000610-48-0	Anthracene, 1-methyl-	77.2	J		11.9	ug/Kg
000613-12-7	Anthracene, 2-methyl-	160	J		11.9	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	130	J		12.0	ug/Kg
003674-66-6	Phenanthrene, 2,5-dimethyl-	170	J		12.5	ug/Kg
001576-67-6	Phenanthrene, 3,6-dimethyl-	100	J		12.5	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-66	SDG No.:	Q2458
Lab Sample ID:	Q2458-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.3
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
BF142977.D	1	07/01/25 09:30	07/02/25 18:20	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
	unknown12.545	97.2	J		12.5	ug/Kg
002381-21-7	Pyrene, 1-methyl-	120	J		13.1	ug/Kg
033543-31-6	Fluoranthene, 2-methyl-	160	J		13.2	ug/Kg
000243-17-4	11H-Benzo[b]fluorene	82.5	J		13.2	ug/Kg
003442-78-2	Pyrene, 2-methyl-	110	J		13.3	ug/Kg
003353-12-6	Pyrene, 4-methyl-	81.7	J		13.4	ug/Kg
000479-79-8	11H-Benzo[a]fluoren-11-one	82.9	J		13.7	ug/Kg
000239-35-0	Benzo[b]naphtho[2,1-d]thiophene	93.0	J		13.8	ug/Kg
080252-14-8	6H-Benz[de]anthracen-6-one	110	J		13.9	ug/Kg
002541-69-7	Benz[a]anthracene, 7-methyl-	130	J		14.4	ug/Kg
000198-55-0	Perylene	76.1	J		15.2	ug/Kg
000192-97-2	Benzo[e]pyrene	410	J		15.4	ug/Kg

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

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-60	SDG No.:	Q2458
Lab Sample ID:	Q2458-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.5
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
BF142955.D	1	07/01/25 09:30	07/01/25 18:00	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	360	ug/Kg
108-95-2	Phenol	23.9	U	23.9	180	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	26.2	U	26.2	180	ug/Kg
95-57-8	2-Chlorophenol	26.3	U	26.3	180	ug/Kg
95-48-7	2-Methylphenol	32.3	U	32.3	180	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	40.5	U	40.5	180	ug/Kg
98-86-2	Acetophenone	31.8	U	31.8	180	ug/Kg
65794-96-9	3+4-Methylphenols	44.4	U	44.4	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	51.2	U	51.2	86.4	ug/Kg
67-72-1	Hexachloroethane	19.0	U	19.0	180	ug/Kg
98-95-3	Nitrobenzene	19.8	U	19.8	180	ug/Kg
78-59-1	Isophorone	35.4	U	35.4	180	ug/Kg
88-75-5	2-Nitrophenol	62.8	U	62.8	180	ug/Kg
105-67-9	2,4-Dimethylphenol	70.0	U	70.0	180	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	33.3	U	33.3	180	ug/Kg
120-83-2	2,4-Dichlorophenol	30.6	U	30.6	180	ug/Kg
91-20-3	Naphthalene	24.5	U	24.5	180	ug/Kg
106-47-8	4-Chloroaniline	38.2	U	38.2	180	ug/Kg
87-68-3	Hexachlorobutadiene	27.3	U	27.3	180	ug/Kg
105-60-2	Caprolactam	56.2	U	56.2	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	31.0	U	31.0	180	ug/Kg
91-57-6	2-Methylnaphthalene	27.6	U	27.6	180	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	21.4	U	21.4	180	ug/Kg
95-95-4	2,4,5-Trichlorophenol	31.4	U	31.4	180	ug/Kg
92-52-4	1,1-Biphenyl	23.5	U	23.5	180	ug/Kg
91-58-7	2-Chloronaphthalene	24.3	U	24.3	180	ug/Kg
88-74-4	2-Nitroaniline	51.9	U	51.9	180	ug/Kg
131-11-3	Dimethylphthalate	29.3	U	29.3	180	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-60	SDG No.:	Q2458
Lab Sample ID:	Q2458-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.5
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
BF142955.D	1	07/01/25 09:30	07/01/25 18:00	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	31.2	U	31.2	180	ug/Kg
606-20-2	2,6-Dinitrotoluene	36.3	U	36.3	180	ug/Kg
99-09-2	3-Nitroaniline	49.7	U	49.7	180	ug/Kg
83-32-9	Acenaphthene	23.0	U	23.0	180	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	360	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	360	ug/Kg
132-64-9	Dibenzofuran	24.5	U	24.5	180	ug/Kg
121-14-2	2,4-Dinitrotoluene	54.1	U	54.1	180	ug/Kg
84-66-2	Diethylphthalate	30.6	U	30.6	180	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	28.8	U	28.8	180	ug/Kg
86-73-7	Fluorene	27.3	U	27.3	180	ug/Kg
100-01-6	4-Nitroaniline	69.3	U	69.3	180	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	35.5	U	35.5	180	ug/Kg
101-55-3	4-Bromophenyl-phenylether	30.0	U	30.0	180	ug/Kg
118-74-1	Hexachlorobenzene	27.3	U	27.3	180	ug/Kg
1912-24-9	Atrazine	36.7	U	36.7	180	ug/Kg
87-86-5	Pentachlorophenol	55.4	U	55.4	360	ug/Kg
85-01-8	Phenanthrene	150	J	22.6	180	ug/Kg
120-12-7	Anthracene	36.0	U	36.0	180	ug/Kg
86-74-8	Carbazole	33.7	U	33.7	180	ug/Kg
84-74-2	Di-n-butylphthalate	51.7	U	51.7	180	ug/Kg
206-44-0	Fluoranthene	750		32.4	180	ug/Kg
129-00-0	Pyrene	460		38.9	180	ug/Kg
85-68-7	Butylbenzylphthalate	77.1	UQ	77.1	180	ug/Kg
91-94-1	3,3-Dichlorobenzidine	39.6	U	39.6	360	ug/Kg
56-55-3	Benzo(a)anthracene	360		24.8	180	ug/Kg
218-01-9	Chrysene	360		21.5	180	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	63.9	U	63.9	180	ug/Kg
117-84-0	Di-n-octyl phthalate	93.7	U	93.7	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	590		20.5	180	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-60	SDG No.:	Q2458
Lab Sample ID:	Q2458-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.5
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
BF142955.D	1	07/01/25 09:30	07/01/25 18:00	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	240		24.2	180	ug/Kg
50-32-8	Benzo(a)pyrene	400		31.8	180	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	200		31.4	180	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	29.6	U	29.6	180	ug/Kg
191-24-2	Benzo(g,h,i)perylene	270		27.7	180	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	27.6	U	27.6	180	ug/Kg
123-91-1	1,4-Dioxane	48.8	U	48.8	180	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	29.6	U	29.6	180	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	73.3		18 - 112	49%	SPK: 150
13127-88-3	Phenol-d6	67.8		15 - 107	45%	SPK: 150
4165-60-0	Nitrobenzene-d5	46.6		18 - 107	47%	SPK: 100
321-60-8	2-Fluorobiphenyl	46.5		20 - 109	47%	SPK: 100
118-79-6	2,4,6-Tribromophenol	86.4		10 - 116	58%	SPK: 150
1718-51-0	Terphenyl-d14	40.3		10 - 105	40%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	40000	6.875			
1146-65-2	Naphthalene-d8	134000	8.157			
15067-26-2	Acenaphthene-d10	70300	9.91			
1517-22-2	Phenanthrene-d10	142000	11.404			
1719-03-5	Chrysene-d12	121000	14.051			
1520-96-3	Perylene-d12	87500	15.545			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	210	AB		5.08	ug/Kg
000259-79-0	Biphenylene	76.3	J		9.78	ug/Kg
000119-61-9	Benzophenone	200	J		10.6	ug/Kg
055045-11-9	Tridecane, 5-propyl-	75.2	J		10.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	330	J		11.9	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	100	J		12.0	ug/Kg

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

Report of Analysis

Client:	CDM Smith			Date Collected:	06/27/25
Project:	South River WM Replacement			Date Received:	06/27/25
Client Sample ID:	TP-60			SDG No.:	Q2458
Lab Sample ID:	Q2458-06			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	92.5
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
BF142955.D	1	07/01/25 09:30	07/01/25 18:00	PB168674

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-62	SDG No.:	Q2458
Lab Sample ID:	Q2458-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.1
Sample Wt/Vol:	30.08 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
BF142954.D	1	07/01/25 09:30	07/01/25 17:29	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	360	ug/Kg
108-95-2	Phenol	24.2	U	24.2	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	26.6	U	26.6	190	ug/Kg
95-57-8	2-Chlorophenol	26.7	U	26.7	190	ug/Kg
95-48-7	2-Methylphenol	32.7	U	32.7	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	41.1	U	41.1	190	ug/Kg
98-86-2	Acetophenone	32.3	U	32.3	190	ug/Kg
65794-96-9	3+4-Methylphenols	45.0	U	45.0	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	51.9	U	51.9	87.6	ug/Kg
67-72-1	Hexachloroethane	19.3	U	19.3	190	ug/Kg
98-95-3	Nitrobenzene	20.0	U	20.0	190	ug/Kg
78-59-1	Isophorone	35.9	U	35.9	190	ug/Kg
88-75-5	2-Nitrophenol	63.7	U	63.7	190	ug/Kg
105-67-9	2,4-Dimethylphenol	70.9	U	70.9	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	33.7	U	33.7	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.0	U	31.0	190	ug/Kg
91-20-3	Naphthalene	24.9	U	24.9	190	ug/Kg
106-47-8	4-Chloroaniline	38.8	U	38.8	190	ug/Kg
87-68-3	Hexachlorobutadiene	27.7	U	27.7	190	ug/Kg
105-60-2	Caprolactam	57.0	U	57.0	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	31.4	U	31.4	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.0	U	28.0	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	21.7	U	21.7	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	31.9	U	31.9	190	ug/Kg
92-52-4	1,1-Biphenyl	23.9	U	23.9	190	ug/Kg
91-58-7	2-Chloronaphthalene	24.6	U	24.6	190	ug/Kg
88-74-4	2-Nitroaniline	52.7	U	52.7	190	ug/Kg
131-11-3	Dimethylphthalate	29.7	U	29.7	190	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-62	SDG No.:	Q2458
Lab Sample ID:	Q2458-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.1
Sample Wt/Vol:	30.08 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
BF142954.D	1	07/01/25 09:30	07/01/25 17:29	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	31.6	U	31.6	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	36.8	U	36.8	190	ug/Kg
99-09-2	3-Nitroaniline	50.4	U	50.4	190	ug/Kg
83-32-9	Acenaphthene	23.3	U	23.3	190	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	360	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	360	ug/Kg
132-64-9	Dibenzofuran	24.9	U	24.9	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	54.8	U	54.8	190	ug/Kg
84-66-2	Diethylphthalate	31.0	U	31.0	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	29.2	U	29.2	190	ug/Kg
86-73-7	Fluorene	27.7	U	27.7	190	ug/Kg
100-01-6	4-Nitroaniline	70.3	U	70.3	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	36.0	U	36.0	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	30.4	U	30.4	190	ug/Kg
118-74-1	Hexachlorobenzene	27.7	U	27.7	190	ug/Kg
1912-24-9	Atrazine	37.2	U	37.2	190	ug/Kg
87-86-5	Pentachlorophenol	56.2	U	56.2	360	ug/Kg
85-01-8	Phenanthrene	22.9	U	22.9	190	ug/Kg
120-12-7	Anthracene	36.5	U	36.5	190	ug/Kg
86-74-8	Carbazole	34.2	U	34.2	190	ug/Kg
84-74-2	Di-n-butylphthalate	52.4	U	52.4	190	ug/Kg
206-44-0	Fluoranthene	32.8	U	32.8	190	ug/Kg
129-00-0	Pyrene	39.4	U	39.4	190	ug/Kg
85-68-7	Butylbenzylphthalate	78.2	UQ	78.2	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	40.2	U	40.2	360	ug/Kg
56-55-3	Benzo(a)anthracene	25.2	U	25.2	190	ug/Kg
218-01-9	Chrysene	21.8	U	21.8	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	64.8	U	64.8	190	ug/Kg
117-84-0	Di-n-octyl phthalate	95.0	U	95.0	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	20.8	U	20.8	190	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-62	SDG No.:	Q2458
Lab Sample ID:	Q2458-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.1
Sample Wt/Vol:	30.08 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
BF142954.D	1	07/01/25 09:30	07/01/25 17:29	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	24.5	U	24.5	190	ug/Kg
50-32-8	Benzo(a)pyrene	32.3	U	32.3	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	31.9	U	31.9	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	30.0	U	30.0	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	28.1	U	28.1	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.0	U	28.0	190	ug/Kg
123-91-1	1,4-Dioxane	49.5	U	49.5	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	30.0	U	30.0	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	65.6		18 - 112	44%	SPK: 150
13127-88-3	Phenol-d6	61.0		15 - 107	41%	SPK: 150
4165-60-0	Nitrobenzene-d5	45.1		18 - 107	45%	SPK: 100
321-60-8	2-Fluorobiphenyl	48.1		20 - 109	48%	SPK: 100
118-79-6	2,4,6-Tribromophenol	76.5		10 - 116	51%	SPK: 150
1718-51-0	Terphenyl-d14	30.2		10 - 105	30%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	50400	6.875			
1146-65-2	Naphthalene-d8	167000	8.157			
15067-26-2	Acenaphthene-d10	75300	9.91			
1517-22-2	Phenanthrene-d10	138000	11.398			
1719-03-5	Chrysene-d12	149000	14.045			
1520-96-3	Perylene-d12	117000	15.539			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	190	AB		5.08	ug/Kg
000119-61-9	Benzophenone	160	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	310	J		11.9	ug/Kg
959085-66-6	Heptadecyl heptafluorobutyrate	190	J		13.9	ug/Kg

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

Report of Analysis

Client:	CDM Smith			Date Collected:	06/27/25
Project:	South River WM Replacement			Date Received:	06/27/25
Client Sample ID:	TP-62			SDG No.:	Q2458
Lab Sample ID:	Q2458-07			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	91.1
Sample Wt/Vol:	30.08	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
BF142954.D	1	07/01/25 09:30	07/01/25 17:29	PB168674

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-63	SDG No.:	Q2458
Lab Sample ID:	Q2458-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.4
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142959.D	5	07/01/25 09:30	07/01/25 20:03	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	900	U	900	1900	ug/Kg
108-95-2	Phenol	130	U	130	980	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	140	U	140	980	ug/Kg
95-57-8	2-Chlorophenol	140	U	140	980	ug/Kg
95-48-7	2-Methylphenol	170	U	170	980	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	220	U	220	980	ug/Kg
98-86-2	Acetophenone	170	U	170	980	ug/Kg
65794-96-9	3+4-Methylphenols	240	U	240	1900	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	270	U	270	460	ug/Kg
67-72-1	Hexachloroethane	100	U	100	980	ug/Kg
98-95-3	Nitrobenzene	110	U	110	980	ug/Kg
78-59-1	Isophorone	190	U	190	980	ug/Kg
88-75-5	2-Nitrophenol	340	U	340	980	ug/Kg
105-67-9	2,4-Dimethylphenol	370	U	370	980	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	180	U	180	980	ug/Kg
120-83-2	2,4-Dichlorophenol	160	U	160	980	ug/Kg
91-20-3	Naphthalene	130	U	130	980	ug/Kg
106-47-8	4-Chloroaniline	200	U	200	980	ug/Kg
87-68-3	Hexachlorobutadiene	150	U	150	980	ug/Kg
105-60-2	Caprolactam	300	U	300	1900	ug/Kg
59-50-7	4-Chloro-3-methylphenol	170	U	170	980	ug/Kg
91-57-6	2-Methylnaphthalene	150	U	150	980	ug/Kg
77-47-4	Hexachlorocyclopentadiene	670	U	670	1900	ug/Kg
88-06-2	2,4,6-Trichlorophenol	110	U	110	980	ug/Kg
95-95-4	2,4,5-Trichlorophenol	170	U	170	980	ug/Kg
92-52-4	1,1-Biphenyl	130	U	130	980	ug/Kg
91-58-7	2-Chloronaphthalene	130	U	130	980	ug/Kg
88-74-4	2-Nitroaniline	280	U	280	980	ug/Kg
131-11-3	Dimethylphthalate	160	U	160	980	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-63	SDG No.:	Q2458
Lab Sample ID:	Q2458-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.4
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142959.D	5	07/01/25 09:30	07/01/25 20:03	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	170	U	170	980	ug/Kg
606-20-2	2,6-Dinitrotoluene	190	U	190	980	ug/Kg
99-09-2	3-Nitroaniline	270	U	270	980	ug/Kg
83-32-9	Acenaphthene	120	U	120	980	ug/Kg
51-28-5	2,4-Dinitrophenol	1300	U	1300	1900	ug/Kg
100-02-7	4-Nitrophenol	620	U	620	1900	ug/Kg
132-64-9	Dibenzofuran	130	U	130	980	ug/Kg
121-14-2	2,4-Dinitrotoluene	290	U	290	980	ug/Kg
84-66-2	Diethylphthalate	160	U	160	980	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	150	U	150	980	ug/Kg
86-73-7	Fluorene	150	U	150	980	ug/Kg
100-01-6	4-Nitroaniline	370	U	370	980	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	600	U	600	1900	ug/Kg
86-30-6	n-Nitrosodiphenylamine	190	U	190	980	ug/Kg
101-55-3	4-Bromophenyl-phenylether	160	U	160	980	ug/Kg
118-74-1	Hexachlorobenzene	150	U	150	980	ug/Kg
1912-24-9	Atrazine	200	U	200	980	ug/Kg
87-86-5	Pentachlorophenol	300	U	300	1900	ug/Kg
85-01-8	Phenanthrene	970	J	120	980	ug/Kg
120-12-7	Anthracene	190	U	190	980	ug/Kg
86-74-8	Carbazole	180	U	180	980	ug/Kg
84-74-2	Di-n-butylphthalate	280	U	280	980	ug/Kg
206-44-0	Fluoranthene	1700		170	980	ug/Kg
129-00-0	Pyrene	1000		210	980	ug/Kg
85-68-7	Butylbenzylphthalate	410	UQ	410	980	ug/Kg
91-94-1	3,3-Dichlorobenzidine	210	U	210	1900	ug/Kg
56-55-3	Benzo(a)anthracene	590	J	130	980	ug/Kg
218-01-9	Chrysene	510	J	110	980	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	340	U	340	980	ug/Kg
117-84-0	Di-n-octyl phthalate	500	U	500	1900	ug/Kg
205-99-2	Benzo(b)fluoranthene	650	J	110	980	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-63	SDG No.:	Q2458
Lab Sample ID:	Q2458-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.4
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142959.D	5	07/01/25 09:30	07/01/25 20:03	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	130	U	130	980	ug/Kg
50-32-8	Benzo(a)pyrene	530	J	170	980	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	170	U	170	980	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	160	U	160	980	ug/Kg
191-24-2	Benzo(g,h,i)perylene	150	U	150	980	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	150	U	150	980	ug/Kg
123-91-1	1,4-Dioxane	260	U	260	980	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	160	U	160	980	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	68.4		18 - 112	46%	SPK: 150
13127-88-3	Phenol-d6	62.7		15 - 107	42%	SPK: 150
4165-60-0	Nitrobenzene-d5	38.3		18 - 107	38%	SPK: 100
321-60-8	2-Fluorobiphenyl	40.0		20 - 109	40%	SPK: 100
118-79-6	2,4,6-Tribromophenol	76.8		10 - 116	51%	SPK: 150
1718-51-0	Terphenyl-d14	40.9		10 - 105	41%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	41100	6.875			
1146-65-2	Naphthalene-d8	142000	8.157			
15067-26-2	Acenaphthene-d10	76700	9.916			
1517-22-2	Phenanthrene-d10	149000	11.404			
1719-03-5	Chrysene-d12	123000	14.051			
1520-96-3	Perylene-d12	91000	15.545			
TENTATIVE IDENTIFIED COMPOUNDS						
002531-84-2	Phenanthrene, 2-methyl-	400	J		11.9	ug/Kg

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

Report of Analysis

Client:	CDM Smith			Date Collected:	06/27/25
Project:	South River WM Replacement			Date Received:	06/27/25
Client Sample ID:	TP-63			SDG No.:	Q2458
Lab Sample ID:	Q2458-08			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	86.4
Sample Wt/Vol:	30.05	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142959.D	5	07/01/25 09:30	07/01/25 20:03	PB168674

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-59	SDG No.:	Q2458
Lab Sample ID:	Q2458-09	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.6
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142975.D	1	07/01/25 09:30	07/02/25 17:19	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	430	ug/Kg
108-95-2	Phenol	28.8	U	28.8	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	31.6	U	31.6	220	ug/Kg
95-57-8	2-Chlorophenol	31.8	U	31.8	220	ug/Kg
95-48-7	2-Methylphenol	38.9	U	38.9	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	48.8	U	48.8	220	ug/Kg
98-86-2	Acetophenone	38.4	U	38.4	220	ug/Kg
65794-96-9	3+4-Methylphenols	53.5	U	53.5	430	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	61.7	U	61.7	100	ug/Kg
67-72-1	Hexachloroethane	22.9	U	22.9	220	ug/Kg
98-95-3	Nitrobenzene	23.8	U	23.8	220	ug/Kg
78-59-1	Isophorone	42.7	U	42.7	220	ug/Kg
88-75-5	2-Nitrophenol	75.8	U	75.8	220	ug/Kg
105-67-9	2,4-Dimethylphenol	84.3	U	84.3	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	40.1	U	40.1	220	ug/Kg
120-83-2	2,4-Dichlorophenol	36.8	U	36.8	220	ug/Kg
91-20-3	Naphthalene	29.5	U	29.5	220	ug/Kg
106-47-8	4-Chloroaniline	46.1	U	46.1	220	ug/Kg
87-68-3	Hexachlorobutadiene	32.9	U	32.9	220	ug/Kg
105-60-2	Caprolactam	67.8	U	67.8	430	ug/Kg
59-50-7	4-Chloro-3-methylphenol	37.4	U	37.4	220	ug/Kg
91-57-6	2-Methylnaphthalene	33.3	U	33.3	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	150	U	150	430	ug/Kg
88-06-2	2,4,6-Trichlorophenol	25.8	U	25.8	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	37.9	U	37.9	220	ug/Kg
92-52-4	1,1-Biphenyl	28.4	U	28.4	220	ug/Kg
91-58-7	2-Chloronaphthalene	29.3	U	29.3	220	ug/Kg
88-74-4	2-Nitroaniline	62.6	U	62.6	220	ug/Kg
131-11-3	Dimethylphthalate	35.3	U	35.3	220	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-59	SDG No.:	Q2458
Lab Sample ID:	Q2458-09	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.6
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142975.D	1	07/01/25 09:30	07/02/25 17:19	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	37.6	U	37.6	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	43.7	U	43.7	220	ug/Kg
99-09-2	3-Nitroaniline	59.9	U	59.9	220	ug/Kg
83-32-9	Acenaphthene	27.7	U	27.7	220	ug/Kg
51-28-5	2,4-Dinitrophenol	300	U	300	430	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	430	ug/Kg
132-64-9	Dibenzofuran	29.5	U	29.5	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	65.2	U	65.2	220	ug/Kg
84-66-2	Diethylphthalate	36.8	U	36.8	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	34.8	U	34.8	220	ug/Kg
86-73-7	Fluorene	32.9	U	32.9	220	ug/Kg
100-01-6	4-Nitroaniline	83.6	U	83.6	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	430	ug/Kg
86-30-6	n-Nitrosodiphenylamine	42.8	U	42.8	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	36.2	U	36.2	220	ug/Kg
118-74-1	Hexachlorobenzene	32.9	U	32.9	220	ug/Kg
1912-24-9	Atrazine	44.3	U	44.3	220	ug/Kg
87-86-5	Pentachlorophenol	66.8	U	66.8	430	ug/Kg
85-01-8	Phenanthrene	27.2	U	27.2	220	ug/Kg
120-12-7	Anthracene	43.3	U	43.3	220	ug/Kg
86-74-8	Carbazole	40.6	U	40.6	220	ug/Kg
84-74-2	Di-n-butylphthalate	62.3	U	62.3	220	ug/Kg
206-44-0	Fluoranthene	39.0	U	39.0	220	ug/Kg
129-00-0	Pyrene	46.9	U	46.9	220	ug/Kg
85-68-7	Butylbenzylphthalate	92.9	UQ	92.9	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	47.8	U	47.8	430	ug/Kg
56-55-3	Benzo(a)anthracene	29.9	U	29.9	220	ug/Kg
218-01-9	Chrysene	25.9	U	25.9	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	77.1	U	77.1	220	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	430	ug/Kg
205-99-2	Benzo(b)fluoranthene	24.7	U	24.7	220	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-59	SDG No.:	Q2458
Lab Sample ID:	Q2458-09	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.6
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142975.D	1	07/01/25 09:30	07/02/25 17:19	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	29.2	U	29.2	220	ug/Kg
50-32-8	Benzo(a)pyrene	38.4	U	38.4	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	37.9	U	37.9	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	35.7	U	35.7	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	33.5	U	33.5	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	33.3	U	33.3	220	ug/Kg
123-91-1	1,4-Dioxane	58.8	U	58.8	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	35.7	U	35.7	220	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	77.4		18 - 112	52%	SPK: 150
13127-88-3	Phenol-d6	78.5		15 - 107	52%	SPK: 150
4165-60-0	Nitrobenzene-d5	47.9		18 - 107	48%	SPK: 100
321-60-8	2-Fluorobiphenyl	48.6		20 - 109	49%	SPK: 100
118-79-6	2,4,6-Tribromophenol	83.1		10 - 116	55%	SPK: 150
1718-51-0	Terphenyl-d14	50.6		10 - 105	51%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	57900	6.869			
1146-65-2	Naphthalene-d8	223000	8.157			
15067-26-2	Acenaphthene-d10	121000	9.91			
1517-22-2	Phenanthrene-d10	212000	11.404			
1719-03-5	Chrysene-d12	120000	14.051			
1520-96-3	Perylene-d12	122000	15.539			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	AB		5.08	ug/Kg
000119-61-9	Benzophenone	280	J		10.6	ug/Kg
001634-74-8	Benzene, 1,1-methylenebis[2-methy	99.8	J		11.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	120	J		11.9	ug/Kg
959261-23-5	Heptafluorobutyric acid, pentadecy	280	J		13.9	ug/Kg

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

Report of Analysis

Client:	CDM Smith			Date Collected:	06/27/25
Project:	South River WM Replacement			Date Received:	06/27/25
Client Sample ID:	TP-59			SDG No.:	Q2458
Lab Sample ID:	Q2458-09			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	76.6
Sample Wt/Vol:	30.09	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142975.D	1	07/01/25 09:30	07/02/25 17:19	PB168674

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	FB-06272025	SDG No.:	Q2458
Lab Sample ID:	Q2458-10	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	990 Units: mL	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 :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142998.D	1	07/03/25 08:56	07/03/25 15:58	PB168716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	3.90	U	3.90	10.1	ug/L
108-95-2	Phenol	0.92	U	0.92	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.82	U	0.82	5.10	ug/L
95-57-8	2-Chlorophenol	0.59	U	0.59	5.10	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.30	U	1.30	5.10	ug/L
98-86-2	Acetophenone	0.75	U	0.75	5.10	ug/L
65794-96-9	3+4-Methylphenols	1.10	U	1.10	10.1	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.40	U	1.40	2.50	ug/L
67-72-1	Hexachloroethane	0.66	U	0.66	5.10	ug/L
98-95-3	Nitrobenzene	0.77	U	0.77	5.10	ug/L
78-59-1	Isophorone	0.76	U	0.76	5.10	ug/L
88-75-5	2-Nitrophenol	1.80	U	1.80	5.10	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.69	U	0.69	5.10	ug/L
120-83-2	2,4-Dichlorophenol	0.53	U	0.53	5.10	ug/L
91-20-3	Naphthalene	0.51	U	0.51	5.10	ug/L
106-47-8	4-Chloroaniline	0.85	U	0.85	5.10	ug/L
87-68-3	Hexachlorobutadiene	0.55	U	0.55	5.10	ug/L
105-60-2	Caprolactam	1.10	U	1.10	10.1	ug/L
59-50-7	4-Chloro-3-methylphenol	0.60	U	0.60	5.10	ug/L
91-57-6	2-Methylnaphthalene	0.57	U	0.57	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	3.70	U	3.70	10.1	ug/L
88-06-2	2,4,6-Trichlorophenol	0.52	U	0.52	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	0.63	U	0.63	5.10	ug/L
92-52-4	1,1-Biphenyl	0.54	U	0.54	5.10	ug/L
91-58-7	2-Chloronaphthalene	0.62	U	0.62	5.10	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.10	ug/L
131-11-3	Dimethylphthalate	0.62	U	0.62	5.10	ug/L

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	FB-06272025	SDG No.:	Q2458
Lab Sample ID:	Q2458-10	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	990 Units: mL	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 :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142998.D	1	07/03/25 08:56	07/03/25 15:58	PB168716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	0.76	U	0.76	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	0.93	U	0.93	5.10	ug/L
99-09-2	3-Nitroaniline	1.10	U	1.10	5.10	ug/L
83-32-9	Acenaphthene	0.56	U	0.56	5.10	ug/L
51-28-5	2,4-Dinitrophenol	6.00	U	6.00	10.1	ug/L
100-02-7	4-Nitrophenol	2.40	U	2.40	10.1	ug/L
132-64-9	Dibenzofuran	0.62	U	0.62	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.10	ug/L
84-66-2	Diethylphthalate	0.70	U	0.70	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.69	U	0.69	5.10	ug/L
86-73-7	Fluorene	0.64	U	0.64	5.10	ug/L
100-01-6	4-Nitroaniline	1.50	U	1.50	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	2.90	U	2.90	10.1	ug/L
86-30-6	n-Nitrosodiphenylamine	0.59	U	0.59	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	0.40	U	0.40	5.10	ug/L
118-74-1	Hexachlorobenzene	0.53	U	0.53	5.10	ug/L
1912-24-9	Atrazine	1.00	U	1.00	5.10	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.1	ug/L
85-01-8	Phenanthrene	0.51	U	0.51	5.10	ug/L
120-12-7	Anthracene	0.62	U	0.62	5.10	ug/L
86-74-8	Carbazole	0.73	U	0.73	5.10	ug/L
84-74-2	Di-n-butylphthalate	1.20	U	1.20	5.10	ug/L
206-44-0	Fluoranthene	0.83	U	0.83	5.10	ug/L
129-00-0	Pyrene	0.51	U	0.51	5.10	ug/L
85-68-7	Butylbenzylphthalate	1.90	UQ	1.90	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	0.94	U	0.94	10.1	ug/L
56-55-3	Benzo(a)anthracene	0.45	U	0.45	5.10	ug/L
218-01-9	Chrysene	0.44	U	0.44	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.60	U	1.60	5.10	ug/L
117-84-0	Di-n-octyl phthalate	2.40	U	2.40	10.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.49	U	0.49	5.10	ug/L

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	FB-06272025	SDG No.:	Q2458
Lab Sample ID:	Q2458-10	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	990 Units: mL	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 :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142998.D	1	07/03/25 08:56	07/03/25 15:58	PB168716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	0.48	U	0.48	5.10	ug/L
50-32-8	Benzo(a)pyrene	0.56	U	0.56	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.60	U	0.60	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.68	U	0.68	5.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.70	U	0.70	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.53	U	0.53	5.10	ug/L
123-91-1	1,4-Dioxane	1.00	U	1.00	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.73	U	0.73	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	65.5		23 - 138	44%	SPK: 150
13127-88-3	Phenol-d6	41.0		10 - 134	27%	SPK: 150
4165-60-0	Nitrobenzene-d5	88.3		67 - 132	88%	SPK: 100
321-60-8	2-Fluorobiphenyl	83.7		52 - 132	84%	SPK: 100
118-79-6	2,4,6-Tribromophenol	141		44 - 137	94%	SPK: 150
1718-51-0	Terphenyl-d14	86.4		42 - 152	86%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	74600	6.875			
1146-65-2	Naphthalene-d8	284000	8.157			
15067-26-2	Acenaphthene-d10	151000	9.91			
1517-22-2	Phenanthrene-d10	259000	11.404			
1719-03-5	Chrysene-d12	149000	14.051			
1520-96-3	Perylene-d12	177000	15.545			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	4.30	AB		5.09	ug/L
001638-16-0	2-Propanol, 1,1-[(1-methyl-1,2-et	2.70	J		8.37	ug/L
117888-04-7	2,4-Diethyl-6-methyl-1,3,5-trioxan	3.90	J		8.40	ug/L
000126-86-3	2,4,7,9-Tetramethyl-5-decyn-4,7-di	2.60	J		9.35	ug/L

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

Report of Analysis

Client:	CDM Smith			Date Collected:	06/27/25
Project:	South River WM Replacement			Date Received:	06/27/25
Client Sample ID:	FB-06272025			SDG No.:	Q2458
Lab Sample ID:	Q2458-10			Matrix:	Water
Analytical Method:	8270E			% Solid:	0
Sample Wt/Vol:	990	Units:	mL	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 :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142998.D	1	07/03/25 08:56	07/03/25 15:58	PB168716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Surrogate Summary

SW-846

SDG No.: Q2458

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
PB168674BL	PB168674BL	2-Fluorophenol	150	123	82		18	112
		Phenol-d6	150	122	81		15	107
		Nitrobenzene-d5	100	75.3	75		18	107
		2-Fluorobiphenyl	100	76.1	76		20	109
		2,4,6-Tribromophenol	150	121	81		10	116
		Terphenyl-d14	100	75.1	75		10	105
PB168674BS	PB168674BS	2-Fluorophenol	150	117	78		18	112
		Phenol-d6	150	119	79		15	107
		Nitrobenzene-d5	100	76.0	76		18	107
		2-Fluorobiphenyl	100	78.0	78		20	109
		2,4,6-Tribromophenol	150	125	83		10	116
		Terphenyl-d14	100	74.8	75		10	105
Q2458-01	TP-76	2-Fluorophenol	150	80.3	54		18	112
		Phenol-d6	150	82.8	55		15	107
		Nitrobenzene-d5	100	51.7	52		18	107
		2-Fluorobiphenyl	100	53.5	53		20	109
		2,4,6-Tribromophenol	150	79.4	53		10	116
		Terphenyl-d14	100	37.0	37		10	105
Q2458-02	TP-55	2-Fluorophenol	150	77.6	52		18	112
		Phenol-d6	150	76.8	51		15	107
		Nitrobenzene-d5	100	52.9	53		18	107
		2-Fluorobiphenyl	100	55.6	56		20	109
		2,4,6-Tribromophenol	150	82.2	55		10	116
		Terphenyl-d14	100	52.0	52		10	105
Q2458-03	TP-68	2-Fluorophenol	150	77.3	52		18	112
		Phenol-d6	150	75.8	51		15	107
		Nitrobenzene-d5	100	46.9	47		18	107
		2-Fluorobiphenyl	100	46.9	47		20	109
		2,4,6-Tribromophenol	150	67.4	45		10	116
		Terphenyl-d14	100	31.9	32		10	105
Q2458-04	TP-67	2-Fluorophenol	150	87.4	58		18	112
		Phenol-d6	150	88.6	59		15	107
		Nitrobenzene-d5	100	53.7	54		18	107
		2-Fluorobiphenyl	100	55.9	56		20	109
		2,4,6-Tribromophenol	150	94.1	63		10	116
		Terphenyl-d14	100	57.0	57		10	105
Q2458-04MS	TP-67MS	2-Fluorophenol	150	79.4	53		18	112
		Phenol-d6	150	81.1	54		15	107
		Nitrobenzene-d5	100	50.8	51		18	107
		2-Fluorobiphenyl	100	51.1	51		20	109
		2,4,6-Tribromophenol	150	89.2	59		10	116
		Terphenyl-d14	100	50.0	50		10	105
Q2458-04MSD	TP-67MSD	2-Fluorophenol	150	74.7	50		18	112
		Phenol-d6	150	76.4	51		15	107
		Nitrobenzene-d5	100	46.7	47		18	107
		2-Fluorobiphenyl	100	48.2	48		20	109
		2,4,6-Tribromophenol	150	81.8	55		10	116
		Terphenyl-d14	100	46.6	47		10	105
Q2458-05	TP-66	2-Fluorophenol	150	69.3	46		18	112
		Phenol-d6	150	71.3	48		15	107
		Nitrobenzene-d5	100	44.3	44		18	107

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

Surrogate Summary

SW-846

SDG No.: Q2458

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q2458-05	TP-66	2-Fluorobiphenyl	100	41.9	42		20	109
		2,4,6-Tribromophenol	150	64.0	43		10	116
		Terphenyl-d14	100	28.5	28		10	105
Q2458-06	TP-60	2-Fluorophenol	150	73.3	49		18	112
		Phenol-d6	150	67.8	45		15	107
		Nitrobenzene-d5	100	46.6	47		18	107
		2-Fluorobiphenyl	100	46.5	47		20	109
		2,4,6-Tribromophenol	150	86.4	58		10	116
		Terphenyl-d14	100	40.3	40		10	105
Q2458-07	TP-62	2-Fluorophenol	150	65.6	44		18	112
		Phenol-d6	150	61.0	41		15	107
		Nitrobenzene-d5	100	45.1	45		18	107
		2-Fluorobiphenyl	100	48.1	48		20	109
		2,4,6-Tribromophenol	150	76.5	51		10	116
		Terphenyl-d14	100	30.2	30		10	105
Q2458-08	TP-63	2-Fluorophenol	150	68.4	46		18	112
		Phenol-d6	150	62.7	42		15	107
		Nitrobenzene-d5	100	38.3	38		18	107
		2-Fluorobiphenyl	100	40.0	40		20	109
		2,4,6-Tribromophenol	150	76.8	51		10	116
		Terphenyl-d14	100	40.9	41		10	105
Q2458-09	TP-59	2-Fluorophenol	150	77.4	52		18	112
		Phenol-d6	150	78.5	52		15	107
		Nitrobenzene-d5	100	47.9	48		18	107
		2-Fluorobiphenyl	100	48.6	49		20	109
		2,4,6-Tribromophenol	150	83.1	55		10	116
		Terphenyl-d14	100	50.6	51		10	105

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

Surrogate Summary

SW-846

SDG No.: Q2458

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB168716BL	PB168716BL	2-Fluorophenol	150	129	86		23	138
		Phenol-d6	150	129	86		10	134
		Nitrobenzene-d5	100	79.8	80		67	132
		2-Fluorobiphenyl	100	78.6	79		52	132
		2,4,6-Tribromophenol	150	136	91		44	137
		Terphenyl-d14	100	88.2	88		42	152
PB168716BS	PB168716BS	2-Fluorophenol	150	128	85		23	138
		Phenol-d6	150	130	87		10	134
		Nitrobenzene-d5	100	82.0	82		67	132
		2-Fluorobiphenyl	100	82.2	82		52	132
		2,4,6-Tribromophenol	150	138	92		44	137
		Terphenyl-d14	100	87.6	88		42	152
PB168716BSD	PB168716BSD	2-Fluorophenol	150	116	77		23	138
		Phenol-d6	150	116	78		10	134
		Nitrobenzene-d5	100	74.9	75		67	132
		2-Fluorobiphenyl	100	75.5	75		52	132
		2,4,6-Tribromophenol	150	128	85		44	137
		Terphenyl-d14	100	81.6	82		42	152
Q2458-10	FB-06272025	2-Fluorophenol	150	65.5	44		23	138
		Phenol-d6	150	41.0	27		10	134
		Nitrobenzene-d5	100	88.3	88		67	132
		2-Fluorobiphenyl	100	83.7	84		52	132
		2,4,6-Tribromophenol	150	141	94		44	137
		Terphenyl-d14	100	86.4	86		42	152

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** SW8270E

Client: CDM Smith **DataFile:** BF142970.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2458-04MS		**Client Sample ID: TP-67MS**									
Benzaldehyde	1900	0	1100	ug/Kg	58				10	171	
Phenol	1900	0	1700	ug/Kg	89				51	122	
bis(2-Chloroethyl)ether	1900	0	1700	ug/Kg	89				54	125	
2-Chlorophenol	1900	0	1700	ug/Kg	89				51	121	
2-Methylphenol	1900	0	1700	ug/Kg	89				47	125	
2,2-oxybis(1-Chloropropane)	1900	0	1600	ug/Kg	84				46	119	
Acetophenone	1900	0	1800	ug/Kg	95				55	128	
3+4-Methylphenols	1900	0	1800	ug/Kg	95				49	125	
N-Nitroso-di-n-propylamine	1900	0	1700	ug/Kg	89				59	119	
Hexachloroethane	1900	0	1700	ug/Kg	89				51	116	
Nitrobenzene	1900	0	1700	ug/Kg	89				47	124	
Isophorone	1900	0	1700	ug/Kg	89				49	127	
2-Nitrophenol	1900	0	1800	ug/Kg	95				43	131	
2,4-Dimethylphenol	1900	0	1800	ug/Kg	95				63	151	
bis(2-Chloroethoxy)methane	1900	0	1700	ug/Kg	89				51	119	
2,4-Dichlorophenol	1900	0	1800	ug/Kg	95				50	122	
Naphthalene	1900	0	1700	ug/Kg	89				51	121	
4-Chloroaniline	1900	0	670	ug/Kg	35				10	100	
Hexachlorobutadiene	1900	0	1800	ug/Kg	95				44	126	
Caprolactam	1900	0	2000	ug/Kg	105				51	134	
4-Chloro-3-methylphenol	1900	0	1800	ug/Kg	95				57	132	
2-Methylnaphthalene	1900	0	1700	ug/Kg	89				59	123	
Hexachlorocyclopentadiene	3700	0	3300	ug/Kg	89				10	175	
2,4,6-Trichlorophenol	1900	0	1800	ug/Kg	95				33	141	
2,4,5-Trichlorophenol	1900	0	1700	ug/Kg	89				38	135	
1,1-Biphenyl	1900	0	1700	ug/Kg	89				55	131	
2-Chloronaphthalene	1900	0	1700	ug/Kg	89				48	124	
2-Nitroaniline	1900	0	1800	ug/Kg	95				47	134	
Dimethylphthalate	1900	0	1800	ug/Kg	95				54	120	
Acenaphthylene	1900	0	1700	ug/Kg	89				57	125	
2,6-Dinitrotoluene	1900	0	1900	ug/Kg	100				48	127	
3-Nitroaniline	1900	0	1000	ug/Kg	53				10	112	
Acenaphthene	1900	0	1900	ug/Kg	100				70	121	
2,4-Dinitrophenol	3700	0	3700	ug/Kg	100				10	155	
4-Nitrophenol	3700	0	3700	ug/Kg	100				10	175	
Dibenzofuran	1900	0	1800	ug/Kg	95				52	114	
2,4-Dinitrotoluene	1900	0	1900	ug/Kg	100				41	140	
Diethylphthalate	1900	0	1900	ug/Kg	100				51	119	
4-Chlorophenyl-phenylether	1900	0	1800	ug/Kg	95				48	122	
Fluorene	1900	0	1800	ug/Kg	95				53	118	
4-Nitroaniline	1900	0	1900	ug/Kg	100				29	140	
4,6-Dinitro-2-methylphenol	1900	0	1800	ug/Kg	95				10	160	
N-Nitrosodiphenylamine	1900	0	1800	ug/Kg	95				73	118	
4-Bromophenyl-phenylether	1900	0	1800	ug/Kg	95				65	121	
Hexachlorobenzene	1900	0	1800	ug/Kg	95				67	118	
Atrazine	1900	0	2100	ug/Kg	111				45	175	

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** SW8270E

Client: CDM Smith **DataFile:** BF142970.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	3700	0	3400	ug/Kg	92				13	153	
Phenanthrene	1900	0	1800	ug/Kg	95				52	128	
Anthracene	1900	0	1800	ug/Kg	95				62	124	
Carbazole	1900	0	1800	ug/Kg	95				59	119	
Di-n-butylphthalate	1900	0	2100	ug/Kg	111				55	125	
Fluoranthene	1900	0	1800	ug/Kg	95				44	125	
Pyrene	1900	0	1700	ug/Kg	89				37	122	
Butylbenzylphthalate	1900	0	2100	ug/Kg	111				44	135	
3,3-Dichlorobenzidine	1900	0	620	ug/Kg	33				15	112	
Benzo(a)anthracene	1900	0	1800	ug/Kg	95				53	119	
Chrysene	1900	0	1800	ug/Kg	95				57	121	
bis(2-Ethylhexyl)phthalate	1900	0	1900	ug/Kg	100				42	169	
Di-n-octyl phthalate	1900	0	1500	ug/Kg	79				51	156	
Benzo(b)fluoranthene	1900	0	1900	ug/Kg	100				52	117	
Benzo(k)fluoranthene	1900	0	1900	ug/Kg	100				57	134	
Benzo(a)pyrene	1900	0	1800	ug/Kg	95				70	142	
Indeno(1,2,3-cd)pyrene	1900	0	1600	ug/Kg	84				40	129	
Dibenz(a,h)anthracene	1900	0	1600	ug/Kg	84				43	123	
Benzo(g,h,i)perylene	1900	0	1600	ug/Kg	84				24	125	
1,2,4,5-Tetrachlorobenzene	1900	0	1800	ug/Kg	95				52	134	
1,4-Dioxane	1900	0	1400	ug/Kg	74				46	112	
2,3,4,6-Tetrachlorophenol	1900	0	1800	ug/Kg	95				24	146	

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** SW8270E

Client: CDM Smith **DataFile:** BF142971.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2458-04MSD		**Client Sample ID: TP-67MSD**									
Benzaldehyde	1900	0	1000	ug/Kg	53		9		10	171	20
Phenol	1900	0	1600	ug/Kg	84		6		51	122	20
bis(2-Chloroethyl)ether	1900	0	1600	ug/Kg	84		6		54	125	20
2-Chlorophenol	1900	0	1600	ug/Kg	84		6		51	121	20
2-Methylphenol	1900	0	1700	ug/Kg	89		0		47	125	20
2,2-oxybis(1-Chloropropane)	1900	0	1500	ug/Kg	79		6		46	119	20
Acetophenone	1900	0	1700	ug/Kg	89		7		55	128	20
3+4-Methylphenols	1900	0	1700	ug/Kg	89		7		49	125	20
N-Nitroso-di-n-propylamine	1900	0	1600	ug/Kg	84		6		59	119	20
Hexachloroethane	1900	0	1600	ug/Kg	84		6		51	116	20
Nitrobenzene	1900	0	1600	ug/Kg	84		6		47	124	20
Isophorone	1900	0	1600	ug/Kg	84		6		49	127	20
2-Nitrophenol	1900	0	1700	ug/Kg	89		7		43	131	20
2,4-Dimethylphenol	1900	0	1600	ug/Kg	84		12		63	151	20
bis(2-Chloroethoxy)methane	1900	0	1600	ug/Kg	84		6		51	119	20
2,4-Dichlorophenol	1900	0	1700	ug/Kg	89		7		50	122	20
Naphthalene	1900	0	1600	ug/Kg	84		6		51	121	20
4-Chloroaniline	1900	0	680	ug/Kg	36		3		10	100	20
Hexachlorobutadiene	1900	0	1600	ug/Kg	84		12		44	126	20
Caprolactam	1900	0	1900	ug/Kg	100		5		51	134	20
4-Chloro-3-methylphenol	1900	0	1700	ug/Kg	89		7		57	132	20
2-Methylnaphthalene	1900	0	1600	ug/Kg	84		6		59	123	20
Hexachlorocyclopentadiene	3700	0	3000	ug/Kg	81		9		10	175	20
2,4,6-Trichlorophenol	1900	0	1600	ug/Kg	84		12		33	141	20
2,4,5-Trichlorophenol	1900	0	1700	ug/Kg	89		0		38	135	20
1,1-Biphenyl	1900	0	1700	ug/Kg	89		0		55	131	20
2-Chloronaphthalene	1900	0	1600	ug/Kg	84		6		48	124	20
2-Nitroaniline	1900	0	1700	ug/Kg	89		7		47	134	20
Dimethylphthalate	1900	0	1800	ug/Kg	95		0		54	120	20
Acenaphthylene	1900	0	1600	ug/Kg	84		6		57	125	20
2,6-Dinitrotoluene	1900	0	1800	ug/Kg	95		5		48	127	20
3-Nitroaniline	1900	0	1000	ug/Kg	53		0		10	112	20
Acenaphthene	1900	0	1800	ug/Kg	95		5		70	121	20
2,4-Dinitrophenol	3700	0	3400	ug/Kg	92		8		10	155	20
4-Nitrophenol	3700	0	3600	ug/Kg	97		3		10	175	20
Dibenzofuran	1900	0	1700	ug/Kg	89		7		52	114	20
2,4-Dinitrotoluene	1900	0	1800	ug/Kg	95		5		41	140	20
Diethylphthalate	1900	0	1800	ug/Kg	95		5		51	119	20
4-Chlorophenyl-phenylether	1900	0	1700	ug/Kg	89		7		48	122	20
Fluorene	1900	0	1700	ug/Kg	89		7		53	118	20
4-Nitroaniline	1900	0	1800	ug/Kg	95		5		29	140	20
4,6-Dinitro-2-methylphenol	1900	0	1600	ug/Kg	84		12		10	160	20
N-Nitrosodiphenylamine	1900	0	1600	ug/Kg	84		12		73	118	20
4-Bromophenyl-phenylether	1900	0	1700	ug/Kg	89		7		65	121	20
Hexachlorobenzene	1900	0	1600	ug/Kg	84		12		67	118	20
Atrazine	1900	0	2000	ug/Kg	105		6		45	175	20

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** SW8270E

Client: CDM Smith **DataFile:** BF142971.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	3700	0	3100	ug/Kg	84		9		13	153	20
Phenanthrene	1900	0	1700	ug/Kg	89		7		52	128	20
Anthracene	1900	0	1700	ug/Kg	89		7		62	124	20
Carbazole	1900	0	1700	ug/Kg	89		7		59	119	20
Di-n-butylphthalate	1900	0	2000	ug/Kg	105		6		55	125	20
Fluoranthene	1900	0	1700	ug/Kg	89		7		44	125	20
Pyrene	1900	0	1600	ug/Kg	84		6		37	122	20
Butylbenzylphthalate	1900	0	2000	ug/Kg	105		6		44	135	20
3,3-Dichlorobenzidine	1900	0	650	ug/Kg	34		3		15	112	20
Benzo(a)anthracene	1900	0	1700	ug/Kg	89		7		53	119	20
Chrysene	1900	0	1700	ug/Kg	89		7		57	121	20
bis(2-Ethylhexyl)phthalate	1900	0	1800	ug/Kg	95		5		42	169	20
Di-n-octyl phthalate	1900	0	1500	ug/Kg	79		0		51	156	20
Benzo(b)fluoranthene	1900	0	1800	ug/Kg	95		5		52	117	20
Benzo(k)fluoranthene	1900	0	1800	ug/Kg	95		5		57	134	20
Benzo(a)pyrene	1900	0	1700	ug/Kg	89		7		70	142	20
Indeno(1,2,3-cd)pyrene	1900	0	1500	ug/Kg	79		6		40	129	20
Dibenz(a,h)anthracene	1900	0	1500	ug/Kg	79		6		43	123	20
Benzo(g,h,i)perylene	1900	0	1400	ug/Kg	74		13		24	125	20
1,2,4,5-Tetrachlorobenzene	1900	0	1600	ug/Kg	84		12		52	134	20
1,4-Dioxane	1900	0	1300	ug/Kg	68		8		46	112	20
2,3,4,6-Tetrachlorophenol	1900	0	1700	ug/Kg	89		7		24	146	20

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** 8270E

Client: CDM Smith **DataFile:** BF142991.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168674BS	Benzaldehyde	1700	920	ug/Kg	54				10	133	
	Phenol	1700	1400	ug/Kg	82				62	112	
	bis(2-Chloroethyl)ether	1700	1400	ug/Kg	82				60	101	
	2-Chlorophenol	1700	1400	ug/Kg	82				65	112	
	2-Methylphenol	1700	1400	ug/Kg	82				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1300	ug/Kg	76				51	100	
	Acetophenone	1700	1500	ug/Kg	88				66	98	
	3+4-Methylphenols	1700	1500	ug/Kg	88				58	111	
	N-Nitroso-di-n-propylamine	1700	1500	ug/Kg	88				63	95	
	Hexachloroethane	1700	1400	ug/Kg	82				72	108	
	Nitrobenzene	1700	1500	ug/Kg	88				57	101	
	Isophorone	1700	1500	ug/Kg	88				59	99	
	2-Nitrophenol	1700	1500	ug/Kg	88				61	111	
	2,4-Dimethylphenol	1700	1500	ug/Kg	88				46	141	
	bis(2-Chloroethoxy)methane	1700	1500	ug/Kg	88				66	97	
	2,4-Dichlorophenol	1700	1500	ug/Kg	88				62	107	
	Naphthalene	1700	1500	ug/Kg	88				62	100	
	4-Chloroaniline	1700	890	ug/Kg	52				16	100	
	Hexachlorobutadiene	1700	1500	ug/Kg	88				53	98	
	Caprolactam	1700	1500	ug/Kg	88				67	110	
	4-Chloro-3-methylphenol	1700	1500	ug/Kg	88				58	112	
	2-Methylnaphthalene	1700	1500	ug/Kg	88				60	104	
	Hexachlorocyclopentadiene	3300	2800	ug/Kg	85				45	165	
	2,4,6-Trichlorophenol	1700	1400	ug/Kg	82				59	102	
	2,4,5-Trichlorophenol	1700	1500	ug/Kg	88				61	98	
	1,1-Biphenyl	1700	1500	ug/Kg	88				57	103	
	2-Chloronaphthalene	1700	1500	ug/Kg	88				58	99	
	2-Nitroaniline	1700	1500	ug/Kg	88				66	101	
	Dimethylphthalate	1700	1500	ug/Kg	88				61	99	
	Acenaphthylene	1700	1500	ug/Kg	88				63	101	
	2,6-Dinitrotoluene	1700	1500	ug/Kg	88				61	104	
	3-Nitroaniline	1700	1000	ug/Kg	59				28	100	
	Acenaphthene	1700	1600	ug/Kg	94				57	104	
	2,4-Dinitrophenol	3300	3100	ug/Kg	94				37	128	
	4-Nitrophenol	3300	2700	ug/Kg	82				48	119	
	Dibenzofuran	1700	1500	ug/Kg	88				63	99	
	2,4-Dinitrotoluene	1700	1500	ug/Kg	88				60	106	
	Diethylphthalate	1700	1500	ug/Kg	88				60	101	
	4-Chlorophenyl-phenylether	1700	1500	ug/Kg	88				58	98	
	Fluorene	1700	1500	ug/Kg	88				61	101	
	4-Nitroaniline	1700	1400	ug/Kg	82				64	103	
	4,6-Dinitro-2-methylphenol	1700	1500	ug/Kg	88				76	113	
	N-Nitrosodiphenylamine	1700	1600	ug/Kg	94				71	99	
	4-Bromophenyl-phenylether	1700	1600	ug/Kg	94				66	102	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** 8270E

Client: CDM Smith **DataFile:** BF142991.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168674BS	Hexachlorobenzene	1700	1600	ug/Kg	94				64	98	
	Atrazine	1700	1700	ug/Kg	100				47	152	
	Pentachlorophenol	3300	2800	ug/Kg	85				67	105	
	Phenanthrene	1700	1500	ug/Kg	88				59	103	
	Anthracene	1700	1500	ug/Kg	88				61	105	
	Carbazole	1700	1500	ug/Kg	88				61	99	
	Di-n-butylphthalate	1700	1700	ug/Kg	100				58	104	
	Fluoranthene	1700	1500	ug/Kg	88				57	107	
	Pyrene	1700	1400	ug/Kg	82				59	103	
	Butylbenzylphthalate	1700	1800	ug/Kg	106		*		55	103	
	3,3-Dichlorobenzidine	1700	990	ug/Kg	58				42	91	
	Benzo(a)anthracene	1700	1500	ug/Kg	88				60	102	
	Chrysene	1700	1500	ug/Kg	88				59	101	
	bis(2-Ethylhexyl)phthalate	1700	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	1600	ug/Kg	94				63	103	
	Indeno(1,2,3-cd)pyrene	1700	1400	ug/Kg	82				63	101	
	Dibenz(a,h)anthracene	1700	1400	ug/Kg	82				61	112	
	Benzo(g,h,i)perylene	1700	1400	ug/Kg	82				70	108	
	1,2,4,5-Tetrachlorobenzene	1700	1500	ug/Kg	88				53	101	
	1,4-Dioxane	1700	1100	ug/Kg	65				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1400	ug/Kg	82				59	108	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** 8270E

Client: CDM Smith **DataFile:** BF143027.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168716BS	Benzaldehyde	50	26.5	ug/L	53				10	162	
	Phenol	50	43.6	ug/L	87				66	118	
	bis(2-Chloroethyl)ether	50	45.7	ug/L	91				62	103	
	2-Chlorophenol	50	45.5	ug/L	91				70	117	
	2-Methylphenol	50	46.1	ug/L	92				69	109	
	2,2-oxybis(1-Chloropropane)	50	41.7	ug/L	83				65	100	
	Acetophenone	50	46.3	ug/L	93				60	104	
	3+4-Methylphenols	50	47.7	ug/L	95				67	106	
	N-Nitroso-di-n-propylamine	50	46.1	ug/L	92				57	107	
	Hexachloroethane	50	45.2	ug/L	90				76	118	
	Nitrobenzene	50	45.3	ug/L	91				58	106	
	Isophorone	50	45.9	ug/L	92				61	102	
	2-Nitrophenol	50	48.1	ug/L	96				70	115	
	2,4-Dimethylphenol	50	45.8	ug/L	92				42	142	
	bis(2-Chloroethoxy)methane	50	45.6	ug/L	91				58	109	
	2,4-Dichlorophenol	50	46.3	ug/L	93				66	115	
	Naphthalene	50	45.8	ug/L	92				64	107	
	4-Chloroaniline	50	29.9	ug/L	60				10	85	
	Hexachlorobutadiene	50	45.4	ug/L	91				69	101	
	Caprolactam	50	52.1	ug/L	104				58	128	
	4-Chloro-3-methylphenol	50	47.8	ug/L	96				65	114	
	2-Methylnaphthalene	50	45.7	ug/L	91				64	107	
	Hexachlorocyclopentadiene	100	76.6	ug/L	77				36	160	
	2,4,6-Trichlorophenol	50	45.7	ug/L	91				61	110	
	2,4,5-Trichlorophenol	50	45.5	ug/L	91				70	106	
	1,1-Biphenyl	50	47.0	ug/L	94				72	98	
	2-Chloronaphthalene	50	46.1	ug/L	92				59	106	
	2-Nitroaniline	50	47.3	ug/L	95				73	114	
	Dimethylphthalate	50	48.7	ug/L	97				64	103	
	Acenaphthylene	50	46.5	ug/L	93				79	103	
	2,6-Dinitrotoluene	50	48.0	ug/L	96				64	110	
	3-Nitroaniline	50	33.0	ug/L	66				28	100	
	Acenaphthene	50	52.0	ug/L	104				59	113	
	2,4-Dinitrophenol	100	100	ug/L	100				36	166	
	4-Nitrophenol	100	81.5	ug/L	82				45	147	
	Dibenzofuran	50	46.5	ug/L	93				65	106	
	2,4-Dinitrotoluene	50	48.5	ug/L	97				60	115	
	Diethylphthalate	50	49.1	ug/L	98				63	105	
	4-Chlorophenyl-phenylether	50	47.9	ug/L	96				61	104	
	Fluorene	50	47.9	ug/L	96				64	107	
	4-Nitroaniline	50	47.0	ug/L	94				55	125	
	4,6-Dinitro-2-methylphenol	50	48.2	ug/L	96				62	132	
	N-Nitrosodiphenylamine	50	47.5	ug/L	95				61	109	
	4-Bromophenyl-phenylether	50	49.2	ug/L	98				73	103	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** 8270E

Client: CDM Smith **DataFile:** BF143027.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168716BS	Hexachlorobenzene	50	47.6	ug/L	95				73	106	
	Atrazine	50	52.6	ug/L	105				76	120	
	Pentachlorophenol	100	82.0	ug/L	82				47	114	
	Phenanthrene	50	47.3	ug/L	95				62	109	
	Anthracene	50	47.3	ug/L	95				65	110	
	Carbazole	50	46.7	ug/L	93				62	106	
	Di-n-butylphthalate	50	51.5	ug/L	103				64	106	
	Fluoranthene	50	46.5	ug/L	93				64	110	
	Pyrene	50	49.6	ug/L	99				71	103	
	Butylbenzylphthalate	50	53.0	ug/L	106		*		61	105	
	3,3-Dichlorobenzidine	50	25.6	ug/L	51				43	108	
	Benzo(a)anthracene	50	48.3	ug/L	97				62	107	
	Chrysene	50	46.8	ug/L	94				61	108	
	bis(2-Ethylhexyl)phthalate	50	46.6	ug/L	93				59	110	
	Di-n-octyl phthalate	50	44.6	ug/L	89				52	139	
	Benzo(b)fluoranthene	50	50.4	ug/L	101				77	113	
	Benzo(k)fluoranthene	50	43.5	ug/L	87				77	105	
	Benzo(a)pyrene	50	47.4	ug/L	95				72	131	
	Indeno(1,2,3-cd)pyrene	50	46.2	ug/L	92				72	105	
	Dibenz(a,h)anthracene	50	45.8	ug/L	92				78	115	
	Benzo(g,h,i)perylene	50	46.4	ug/L	93				75	118	
	1,2,4,5-Tetrachlorobenzene	50	46.6	ug/L	93				72	101	
	1,4-Dioxane	50	35.4	ug/L	71				38	125	
	2,3,4,6-Tetrachlorophenol	50	47.1	ug/L	94				63	116	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** 8270E

Client: CDM Smith **DataFile:** BF143028.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168716BSD	Benzaldehyde	50	25.9	ug/L	52	2			10	162	20
	Phenol	50	40.3	ug/L	81	8			66	118	20
	bis(2-Chloroethyl)ether	50	41.2	ug/L	82	10			62	103	20
	2-Chlorophenol	50	41.2	ug/L	82	10			70	117	20
	2-Methylphenol	50	41.4	ug/L	83	11			69	109	20
	2,2-oxybis(1-Chloropropane)	50	37.8	ug/L	76	10			65	100	20
	Acetophenone	50	42.6	ug/L	85	8			60	104	20
	3+4-Methylphenols	50	42.5	ug/L	85	12			67	106	20
	N-Nitroso-di-n-propylamine	50	41.5	ug/L	83	11			57	107	20
	Hexachloroethane	50	40.9	ug/L	82	10			76	118	20
	Nitrobenzene	50	42.3	ug/L	85	7			58	106	20
	Isophorone	50	42.4	ug/L	85	8			61	102	20
	2-Nitrophenol	50	44.2	ug/L	88	8			70	115	20
	2,4-Dimethylphenol	50	42.5	ug/L	85	7			42	142	20
	bis(2-Chloroethoxy)methane	50	42.0	ug/L	84	8			58	109	20
	2,4-Dichlorophenol	50	42.4	ug/L	85	9			66	115	20
	Naphthalene	50	42.2	ug/L	84	8			64	107	20
	4-Chloroaniline	50	37.2	ug/L	74	22		*	10	85	20
	Hexachlorobutadiene	50	42.5	ug/L	85	7			69	101	20
	Caprolactam	50	48.3	ug/L	97	8			58	128	20
	4-Chloro-3-methylphenol	50	44.3	ug/L	89	8			65	114	20
	2-Methylnaphthalene	50	42.5	ug/L	85	7			64	107	20
	Hexachlorocyclopentadiene	100	71.7	ug/L	72	7			36	160	20
	2,4,6-Trichlorophenol	50	41.4	ug/L	83	10			61	110	20
	2,4,5-Trichlorophenol	50	42.1	ug/L	84	8			70	106	20
	1,1-Biphenyl	50	42.6	ug/L	85	10			72	98	20
	2-Chloronaphthalene	50	42.1	ug/L	84	9			59	106	20
	2-Nitroaniline	50	44.5	ug/L	89	6			73	114	20
	Dimethylphthalate	50	44.8	ug/L	90	8			64	103	20
	Acenaphthylene	50	42.7	ug/L	85	9			79	103	20
	2,6-Dinitrotoluene	50	45.4	ug/L	91	6			64	110	20
	3-Nitroaniline	50	37.4	ug/L	75	13			28	100	20
	Acenaphthene	50	46.6	ug/L	93	11			59	113	20
	2,4-Dinitrophenol	100	91.4	ug/L	91	9			36	166	20
	4-Nitrophenol	100	75.8	ug/L	76	7			45	147	20
	Dibenzofuran	50	42.9	ug/L	86	8			65	106	20
	2,4-Dinitrotoluene	50	45.8	ug/L	92	6			60	115	20
	Diethylphthalate	50	45.5	ug/L	91	8			63	105	20
	4-Chlorophenyl-phenylether	50	43.7	ug/L	87	9			61	104	20
	Fluorene	50	44.1	ug/L	88	8			64	107	20
	4-Nitroaniline	50	44.5	ug/L	89	5			55	125	20
	4,6-Dinitro-2-methylphenol	50	44.8	ug/L	90	7			62	132	20
	N-Nitrosodiphenylamine	50	43.7	ug/L	87	8			61	109	20
	4-Bromophenyl-phenylether	50	45.2	ug/L	90	8			73	103	20

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** 8270E

Client: CDM Smith **DataFile:** BF143028.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168716BSD	Hexachlorobenzene	50	43.8	ug/L	88	8			73	106	20
	Atrazine	50	48.4	ug/L	97	8			76	120	20
	Pentachlorophenol	100	78.4	ug/L	78	4			47	114	20
	Phenanthrene	50	43.2	ug/L	86	9			62	109	20
	Anthracene	50	43.9	ug/L	88	7			65	110	20
	Carbazole	50	44.0	ug/L	88	6			62	106	20
	Di-n-butylphthalate	50	46.8	ug/L	94	10			64	106	20
	Fluoranthene	50	43.1	ug/L	86	8			64	110	20
	Pyrene	50	46.3	ug/L	93	7			71	103	20
	Butylbenzylphthalate	50	48.4	ug/L	97	9			61	105	20
	3,3-Dichlorobenzidine	50	36.3	ug/L	73	35		*	43	108	20
	Benzo(a)anthracene	50	45.6	ug/L	91	6			62	107	20
	Chrysene	50	44.0	ug/L	88	6			61	108	20
	bis(2-Ethylhexyl)phthalate	50	44.2	ug/L	88	5			59	110	20
	Di-n-octyl phthalate	50	42.5	ug/L	85	5			52	139	20
	Benzo(b)fluoranthene	50	42.8	ug/L	86	16			77	113	20
	Benzo(k)fluoranthene	50	44.9	ug/L	90	3			77	105	20
	Benzo(a)pyrene	50	44.2	ug/L	88	7			72	131	20
	Indeno(1,2,3-cd)pyrene	50	42.5	ug/L	85	8			72	105	20
	Dibenz(a,h)anthracene	50	42.9	ug/L	86	7			78	115	20
	Benzo(g,h,i)perylene	50	42.8	ug/L	86	8			75	118	20
	1,2,4,5-Tetrachlorobenzene	50	42.9	ug/L	86	8			72	101	20
	1,4-Dioxane	50	32.4	ug/L	65	9			38	125	20
	2,3,4,6-Tetrachlorophenol	50	43.3	ug/L	87	8			63	116	20

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

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID: PB168674BL

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2458

Lab File ID: BF142990.D | Lab Sample ID: PB168674BL

Instrument ID: BNA_F | Date Extracted: 07/01/2025

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

Level: (low/med) LOW | Time Analyzed: 11:25

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168674BS	PB168674BS	BF142991.D	07/03/2025
TP-60	Q2458-06	BF142955.D	07/01/2025
TP-62	Q2458-07	BF142954.D	07/01/2025
TP-63	Q2458-08	BF142959.D	07/01/2025
TP-76	Q2458-01	BF142978.D	07/02/2025
TP-68	Q2458-03	BF142979.D	07/02/2025
TP-55	Q2458-02	BF142985.D	07/02/2025
TP-67	Q2458-04	BF142969.D	07/02/2025
TP-67MS	Q2458-04MS	BF142970.D	07/02/2025
TP-67MSD	Q2458-04MSD	BF142971.D	07/02/2025
TP-59	Q2458-09	BF142975.D	07/02/2025
TP-66	Q2458-05	BF142977.D	07/02/2025

COMMENTS:

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

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID: PB168716BL

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2458

Lab File ID: BF143026.D | Lab Sample ID: PB168716BL

Instrument ID: BNA_F | Date Extracted: 07/03/2025

Matrix: (soil/water) Water | Date Analyzed: 07/08/2025

Level: (low/med) LOW | Time Analyzed: 11:24

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168716BS	PB168716BS	BF143027.D	07/08/2025
PB168716BSD	PB168716BSD	BF143028.D	07/08/2025
FB-06272025	Q2458-10	BF142998.D	07/03/2025

COMMENTS:

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2458

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

Instrument ID: BNA_F DFTPP Injection Time: 16:37

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

1-Value is % mass 69

2-Value is % mass 442

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

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

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2458

Lab File ID: BF142940.D | DFTPP Injection Date: 07/01/2025

Instrument ID: BNA_F | DFTPP Injection Time: 09:46

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	29.2
68	Less than 2.0% of mass 69	0.4 (1.6) 1
69	Mass 69 relative abundance	27.4
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	38.4
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.6
275	10.0 - 60.0% of mass 198	24
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	15.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.4 (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:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF142941.D	07/01/2025	10:47
TP-62	Q2458-07	BF142954.D	07/01/2025	17:29
TP-60	Q2458-06	BF142955.D	07/01/2025	18:00
TP-63	Q2458-08	BF142959.D	07/01/2025	20:03

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2458

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

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

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

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF142964.D	07/02/2025	11:41
TP-67	Q2458-04	BF142969.D	07/02/2025	14:17
TP-67MS	Q2458-04MS	BF142970.D	07/02/2025	14:47
TP-67MSD	Q2458-04MSD	BF142971.D	07/02/2025	15:17
TP-59	Q2458-09	BF142975.D	07/02/2025	17:19
TP-66	Q2458-05	BF142977.D	07/02/2025	18:20
TP-76	Q2458-01	BF142978.D	07/02/2025	18:50
TP-68	Q2458-03	BF142979.D	07/02/2025	19:21
TP-55	Q2458-02	BF142985.D	07/02/2025	22:22

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2458

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

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

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

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF142987.D	07/03/2025	09:55
PB168674BL	PB168674BL	BF142990.D	07/03/2025	11:25
PB168674BS	PB168674BS	BF142991.D	07/03/2025	11:55
FB-06272025	Q2458-10	BF142998.D	07/03/2025	15:58

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2458

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

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

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

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF143025.D	07/08/2025	10:54
PB168716BL	PB168716BL	BF143026.D	07/08/2025	11:24
PB168716BS	PB168716BS	BF143027.D	07/08/2025	11:54
PB168716BSD	PB168716BSD	BF143028.D	07/08/2025	12:25

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2458

Client ID : SSTDCCC040 Date Analyzed: 07/01/2025

Lab File ID: BF142941.D Time Analyzed: 10:47

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	52800	6.875	192179	8.16	92751	9.92
	UPPER LIMIT	105600	7.375	384358	8.657	185502	10.416
	LOWER LIMIT	26400	6.375	96089.5	7.657	46375.5	9.416
	EPA SAMPLE NO.						
01	TP-60	40048	6.88	134037	8.16	70254	9.91
02	TP-62	50422	6.88	167358	8.16	75314	9.91
03	TP-63	41136	6.88	141903	8.16	76687	9.92

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

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

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

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2458

Client ID: SSTDCCC040 Date Analyzed: 07/01/2025

Lab File ID: BF142941.D Time Analyzed: 10:47

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	139048	11.404	102522	14.051	129198	15.539
	UPPER LIMIT	278096	11.904	205044	14.551	258396	16.039
	LOWER LIMIT	69524	10.904	51261	13.551	64599	15.039
	EPA SAMPLE NO.						
01	TP-60	141628	11.40	121309	14.05	87498	15.55
02	TP-62	137885	11.40	148822	14.05	117407	15.54
03	TP-63	148921	11.40	123268	14.05	90968	15.55

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

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

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

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2458

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

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

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	58835	6.875	223613	8.16	116653	9.92
	UPPER LIMIT	117670	7.375	447226	8.657	233306	10.416
	LOWER LIMIT	29417.5	6.375	111807	7.657	58326.5	9.416
	EPA SAMPLE NO.						
01	TP-76	60838	6.87	230820	8.16	119279	9.91
02	TP-55	53273	6.87	184703	8.16	86853	9.91
03	TP-68	60603	6.87	232159	8.16	115889	9.91
04	TP-67	53005	6.87	205773	8.16	107799	9.92
05	TP-67MS	54262	6.88	204360	8.16	107674	9.92
06	TP-67MSD	56149	6.88	216831	8.16	113581	9.92
07	TP-66	55670	6.87	209987	8.16	105779	9.91
08	TP-59	57945	6.87	223063	8.16	120808	9.91

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.

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2458

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

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

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	194796	11.404	118183	14.051	123997	15.545
	UPPER LIMIT	389592	11.904	236366	14.551	247994	16.045
	LOWER LIMIT	97398	10.904	59091.5	13.551	61998.5	15.045
	EPA SAMPLE NO.						
01	TP-76	177718	11.40	132715	14.05	116845	15.54
02	TP-55	146004	11.40	91233	14.05	69801	15.55
03	TP-68	161669	11.40	127172	14.05	112443	15.54
04	TP-67	193599	11.40	117849	14.05	100982	15.55
05	TP-67MS	180519	11.40	104217	14.05	110887	15.55
06	TP-67MSD	197962	11.40	113049	14.06	120474	15.55
07	TP-66	154994	11.40	110689	14.05	101919	15.54
08	TP-59	212211	11.40	120436	14.05	122074	15.54

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.

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2458

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

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

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	62161	6.875	229765	8.16	116751	9.92
	UPPER LIMIT	124322	7.375	459530	8.657	233502	10.416
	LOWER LIMIT	31080.5	6.375	114883	7.657	58375.5	9.416
	EPA SAMPLE NO.						
01	PB168674BL	69300	6.88	271940	8.16	146089	9.92
02	PB168674BS	63885	6.88	241904	8.16	125461	9.92
03	FB-06272025	74550	6.88	284157	8.16	150910	9.91

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.

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2458

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

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

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	185461	11.404	107728	14.051	131364	15.545
	UPPER LIMIT	370922	11.904	215456	14.551	262728	16.045
	LOWER LIMIT	92730.5	10.904	53864	13.551	65682	15.045
	EPA SAMPLE NO.						
01	PB168674BL	243571	11.40	138339	14.05	149416	15.55
02	PB168674BS	198063	11.41	112102	14.06	135188	15.55
03	FB-06272025	259289	11.40	148740	14.05	177122	15.55

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

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

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

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2458

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

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

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	66813	6.875	257725	8.16	136330	9.92
	UPPER LIMIT	133626	7.375	515450	8.663	272660	10.422
	LOWER LIMIT	33406.5	6.375	128863	7.663	68165	9.422
	EPA SAMPLE NO.						
01	PB168716BL	62899	6.88	246391	8.16	135369	9.92
02	PB168716BS	58507	6.88	224473	8.16	117882	9.92
03	PB168716BSD	60408	6.88	226362	8.16	118776	9.92

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

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

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

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2458

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

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

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	218169	11.41	109391	14.063	135350	15.557
	UPPER LIMIT	436338	11.91	218782	14.563	270700	16.057
	LOWER LIMIT	109085	10.91	54695.5	13.563	67675	15.057
	EPA SAMPLE NO.						
01	PB168716BL	247916	11.41	134036	14.06	119715	15.56
02	PB168716BS	196389	11.41	99574	14.06	114876	15.56
03	PB168716BSD	197115	11.41	99617	14.06	118358	15.56

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

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

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

QC SAMPLE DATA

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168674BL	SDG No.:	Q2458
Lab Sample ID:	PB168674BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142990.D	1	07/01/25 09:30	07/03/25 11:25	PB168674

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	58.1	U	58.1	170	ug/Kg
105-67-9	2,4-Dimethylphenol	64.7	U	64.7	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	52.0	U	52.0	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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168674BL	SDG No.:	Q2458
Lab Sample ID:	PB168674BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142990.D	1	07/01/25 09:30	07/03/25 11:25	PB168674

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	50.0	U	50.0	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	64.1	U	64.1	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	51.2	U	51.2	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	71.3	U	71.3	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	59.1	U	59.1	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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168674BL	SDG No.:	Q2458
Lab Sample ID:	PB168674BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142990.D	1	07/01/25 09:30	07/03/25 11:25	PB168674

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	123		18 - 112	82%	SPK: 150
13127-88-3	Phenol-d6	122		15 - 107	81%	SPK: 150
4165-60-0	Nitrobenzene-d5	75.3		18 - 107	75%	SPK: 100
321-60-8	2-Fluorobiphenyl	76.1		20 - 109	76%	SPK: 100
118-79-6	2,4,6-Tribromophenol	121		10 - 116	81%	SPK: 150
1718-51-0	Terphenyl-d14	75.1		10 - 105	75%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	69300	6.875			
1146-65-2	Naphthalene-d8	272000	8.157			
15067-26-2	Acenaphthene-d10	146000	9.916			
1517-22-2	Phenanthrene-d10	244000	11.404			
1719-03-5	Chrysene-d12	138000	14.051			
1520-96-3	Perylene-d12	149000	15.545			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	300	A		5.10	ug/Kg

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

Report of Analysis

Client:	CDM Smith			Date Collected:	
Project:	South River WM Replacement			Date Received:	
Client Sample ID:	PB168674BL			SDG No.:	Q2458
Lab Sample ID:	PB168674BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142990.D	1	07/01/25 09:30	07/03/25 11:25	PB168674

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168716BL	SDG No.:	Q2458
Lab Sample ID:	PB168716BL	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	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 :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143026.D	1	07/03/25 08:56	07/08/25 11:24	PB168716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	3.90	U	3.90	10.0	ug/L
108-95-2	Phenol	0.91	U	0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.81	U	0.81	5.00	ug/L
95-57-8	2-Chlorophenol	0.58	U	0.58	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.30	U	1.30	5.00	ug/L
98-86-2	Acetophenone	0.74	U	0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.10	U	1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.40	U	1.40	2.50	ug/L
67-72-1	Hexachloroethane	0.65	U	0.65	5.00	ug/L
98-95-3	Nitrobenzene	0.76	U	0.76	5.00	ug/L
78-59-1	Isophorone	0.75	U	0.75	5.00	ug/L
88-75-5	2-Nitrophenol	1.80	U	1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.68	U	0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.52	U	0.52	5.00	ug/L
91-20-3	Naphthalene	0.50	U	0.50	5.00	ug/L
106-47-8	4-Chloroaniline	0.84	U	0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.54	U	0.54	5.00	ug/L
105-60-2	Caprolactam	1.10	U	1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.59	U	0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	0.56	U	0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	3.60	U	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.51	U	0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	0.62	U	0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	0.53	U	0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.61	U	0.61	5.00	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.00	ug/L
131-11-3	Dimethylphthalate	0.61	U	0.61	5.00	ug/L

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168716BL	SDG No.:	Q2458
Lab Sample ID:	PB168716BL	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	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 :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143026.D	1	07/03/25 08:56	07/08/25 11:24	PB168716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	0.75	U	0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	0.92	U	0.92	5.00	ug/L
99-09-2	3-Nitroaniline	1.10	U	1.10	5.00	ug/L
83-32-9	Acenaphthene	0.55	U	0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.00	U	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	2.40	U	2.40	10.0	ug/L
132-64-9	Dibenzofuran	0.61	U	0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
84-66-2	Diethylphthalate	0.69	U	0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.68	U	0.68	5.00	ug/L
86-73-7	Fluorene	0.63	U	0.63	5.00	ug/L
100-01-6	4-Nitroaniline	1.50	U	1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	2.90	U	2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.58	U	0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.40	U	0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	0.52	U	0.52	5.00	ug/L
1912-24-9	Atrazine	1.00	U	1.00	5.00	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.0	ug/L
85-01-8	Phenanthrene	0.50	U	0.50	5.00	ug/L
120-12-7	Anthracene	0.61	U	0.61	5.00	ug/L
86-74-8	Carbazole	0.72	U	0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.20	U	1.20	5.00	ug/L
206-44-0	Fluoranthene	0.82	U	0.82	5.00	ug/L
129-00-0	Pyrene	0.50	U	0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	1.90	U	1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	0.93	U	0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.45	U	0.45	5.00	ug/L
218-01-9	Chrysene	0.44	U	0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.60	U	1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.30	U	2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	0.49	U	0.49	5.00	ug/L

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168716BL	SDG No.:	Q2458
Lab Sample ID:	PB168716BL	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	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 :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143026.D	1	07/03/25 08:56	07/08/25 11:24	PB168716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	0.48	U	0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	0.55	U	0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.59	U	0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.67	U	0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	0.69	U	0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.52	U	0.52	5.00	ug/L
123-91-1	1,4-Dioxane	1.00	U	1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.72	U	0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	129		23 - 138	86%	SPK: 150
13127-88-3	Phenol-d6	129		10 - 134	86%	SPK: 150
4165-60-0	Nitrobenzene-d5	79.8		67 - 132	80%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.6		52 - 132	79%	SPK: 100
118-79-6	2,4,6-Tribromophenol	136		44 - 137	91%	SPK: 150
1718-51-0	Terphenyl-d14	88.2		42 - 152	88%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	62900	6.875			
1146-65-2	Naphthalene-d8	246000	8.157			
15067-26-2	Acenaphthene-d10	135000	9.916			
1517-22-2	Phenanthrene-d10	248000	11.41			
1719-03-5	Chrysene-d12	134000	14.057			
1520-96-3	Perylene-d12	120000	15.556			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	9.40	A		5.10	ug/L
006311-48-4	(1,1-Biphenyl)-4,4-diamine, N,N	15.9	J		17.3	ug/L

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

Report of Analysis

Client:	CDM Smith			Date Collected:	
Project:	South River WM Replacement			Date Received:	
Client Sample ID:	PB168716BL			SDG No.:	Q2458
Lab Sample ID:	PB168716BL			Matrix:	Water
Analytical Method:	8270E			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	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 :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143026.D	1	07/03/25 08:56	07/08/25 11:24	PB168716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168674BS	SDG No.:	Q2458
Lab Sample ID:	PB168674BS	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
BF142991.D	1	07/01/25 09:30	07/03/25 11:55	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	920		160	330	ug/Kg
108-95-2	Phenol	1400		22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1400		24.3	170	ug/Kg
95-57-8	2-Chlorophenol	1400		24.4	170	ug/Kg
95-48-7	2-Methylphenol	1400		29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1300		37.5	170	ug/Kg
98-86-2	Acetophenone	1500		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	1500		47.4	80.0	ug/Kg
67-72-1	Hexachloroethane	1400		17.6	170	ug/Kg
98-95-3	Nitrobenzene	1500		18.3	170	ug/Kg
78-59-1	Isophorone	1500		32.8	170	ug/Kg
88-75-5	2-Nitrophenol	1500		58.2	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1500		64.8	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1500		28.3	170	ug/Kg
91-20-3	Naphthalene	1500		22.7	170	ug/Kg
106-47-8	4-Chloroaniline	890		35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	1500		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	1500		25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	2800	E	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1400		19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1500		29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	1500		22.5	170	ug/Kg
88-74-4	2-Nitroaniline	1500		48.1	170	ug/Kg
131-11-3	Dimethylphthalate	1500		27.1	170	ug/Kg

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

Report of Analysis

Client:	CDM Smith			Date Collected:	
Project:	South River WM Replacement			Date Received:	
Client Sample ID:	PB168674BS			SDG No.:	Q2458
Lab Sample ID:	PB168674BS			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
BF142991.D	1	07/01/25 09:30	07/03/25 11:55	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1500		28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1500		33.6	170	ug/Kg
99-09-2	3-Nitroaniline	1000		46.0	170	ug/Kg
83-32-9	Acenaphthene	1600		21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3100	E	230	330	ug/Kg
100-02-7	4-Nitrophenol	2700	E	110	330	ug/Kg
132-64-9	Dibenzofuran	1500		22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1500		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	1400		64.2	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1500		100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1600		32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1600		27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1600		25.3	170	ug/Kg
1912-24-9	Atrazine	1700		34.0	170	ug/Kg
87-86-5	Pentachlorophenol	2800	E	51.3	330	ug/Kg
85-01-8	Phenanthrene	1500		20.9	170	ug/Kg
120-12-7	Anthracene	1500		33.3	170	ug/Kg
86-74-8	Carbazole	1500		31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1700		47.9	170	ug/Kg
206-44-0	Fluoranthene	1500		30.0	170	ug/Kg
129-00-0	Pyrene	1400		36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1800		71.4	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	990		36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	1500		23.0	170	ug/Kg
218-01-9	Chrysene	1500		19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168674BS	SDG No.:	Q2458
Lab Sample ID:	PB168674BS	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
BF142991.D	1	07/01/25 09:30	07/03/25 11:55	PB168674

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	1600		29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1400		29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1400		27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1400		25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1500		25.6	170	ug/Kg
123-91-1	1,4-Dioxane	1100		45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1400		27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	117		18 - 112	78%	SPK: 150
13127-88-3	Phenol-d6	119		15 - 107	79%	SPK: 150
4165-60-0	Nitrobenzene-d5	76.0		18 - 107	76%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.0		20 - 109	78%	SPK: 100
118-79-6	2,4,6-Tribromophenol	125		10 - 116	83%	SPK: 150
1718-51-0	Terphenyl-d14	74.8		10 - 105	75%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	63900	6.875			
1146-65-2	Naphthalene-d8	242000	8.157			
15067-26-2	Acenaphthene-d10	125000	9.916			
1517-22-2	Phenanthrene-d10	198000	11.41			
1719-03-5	Chrysene-d12	112000	14.057			
1520-96-3	Perylene-d12	135000	15.545			

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

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168716BS	SDG No.:	Q2458
Lab Sample ID:	PB168716BS	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	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 :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143027.D	1	07/03/25 08:56	07/08/25 11:54	PB168716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	26.5		3.90	10.0	ug/L
108-95-2	Phenol	43.6		0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	45.7		0.81	5.00	ug/L
95-57-8	2-Chlorophenol	45.5		0.58	5.00	ug/L
95-48-7	2-Methylphenol	46.1		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	41.7		1.30	5.00	ug/L
98-86-2	Acetophenone	46.3		0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	47.7		1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	46.1		1.40	2.50	ug/L
67-72-1	Hexachloroethane	45.2		0.65	5.00	ug/L
98-95-3	Nitrobenzene	45.3		0.76	5.00	ug/L
78-59-1	Isophorone	45.9		0.75	5.00	ug/L
88-75-5	2-Nitrophenol	48.1		1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	45.8		1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	45.6		0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	46.3		0.52	5.00	ug/L
91-20-3	Naphthalene	45.8		0.50	5.00	ug/L
106-47-8	4-Chloroaniline	29.9		0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	45.4		0.54	5.00	ug/L
105-60-2	Caprolactam	52.1		1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	47.8		0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	45.7		0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	76.6		3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	45.7		0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	45.5		0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	47.0		0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	46.1		0.61	5.00	ug/L
88-74-4	2-Nitroaniline	47.3		1.30	5.00	ug/L
131-11-3	Dimethylphthalate	48.7		0.61	5.00	ug/L

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168716BS	SDG No.:	Q2458
Lab Sample ID:	PB168716BS	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	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 :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143027.D	1	07/03/25 08:56	07/08/25 11:54	PB168716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	46.5		0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	48.0		0.92	5.00	ug/L
99-09-2	3-Nitroaniline	33.0		1.10	5.00	ug/L
83-32-9	Acenaphthene	52.0		0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	100	E	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	81.5	E	2.40	10.0	ug/L
132-64-9	Dibenzofuran	46.5		0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	48.5		1.20	5.00	ug/L
84-66-2	Diethylphthalate	49.1		0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	47.9		0.68	5.00	ug/L
86-73-7	Fluorene	47.9		0.63	5.00	ug/L
100-01-6	4-Nitroaniline	47.0		1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	48.2		2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	47.5		0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	49.2		0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	47.6		0.52	5.00	ug/L
1912-24-9	Atrazine	52.6		1.00	5.00	ug/L
87-86-5	Pentachlorophenol	82.0	E	1.60	10.0	ug/L
85-01-8	Phenanthrene	47.3		0.50	5.00	ug/L
120-12-7	Anthracene	47.3		0.61	5.00	ug/L
86-74-8	Carbazole	46.7		0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	51.5		1.20	5.00	ug/L
206-44-0	Fluoranthene	46.5		0.82	5.00	ug/L
129-00-0	Pyrene	49.6		0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	53.0		1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	25.6		0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	48.3		0.45	5.00	ug/L
218-01-9	Chrysene	46.8		0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	46.6		1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	44.6		2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	50.4		0.49	5.00	ug/L

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168716BS	SDG No.:	Q2458
Lab Sample ID:	PB168716BS	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	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 :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143027.D	1	07/03/25 08:56	07/08/25 11:54	PB168716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	43.5		0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	47.4		0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	46.2		0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	45.8		0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	46.4		0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	46.6		0.52	5.00	ug/L
123-91-1	1,4-Dioxane	35.4		1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	47.1		0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	128		23 - 138	85%	SPK: 150
13127-88-3	Phenol-d6	130		10 - 134	87%	SPK: 150
4165-60-0	Nitrobenzene-d5	82.0		67 - 132	82%	SPK: 100
321-60-8	2-Fluorobiphenyl	82.2		52 - 132	82%	SPK: 100
118-79-6	2,4,6-Tribromophenol	138		44 - 137	92%	SPK: 150
1718-51-0	Terphenyl-d14	87.6		42 - 152	88%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	58500	6.875			
1146-65-2	Naphthalene-d8	224000	8.163			
15067-26-2	Acenaphthene-d10	118000	9.922			
1517-22-2	Phenanthrene-d10	196000	11.41			
1719-03-5	Chrysene-d12	99600	14.063			
1520-96-3	Perylene-d12	115000	15.557			

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

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168716BSD	SDG No.:	Q2458
Lab Sample ID:	PB168716BSD	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	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 :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143028.D	1	07/03/25 08:56	07/08/25 12:25	PB168716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	25.9		3.90	10.0	ug/L
108-95-2	Phenol	40.3		0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	41.2		0.81	5.00	ug/L
95-57-8	2-Chlorophenol	41.2		0.58	5.00	ug/L
95-48-7	2-Methylphenol	41.4		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	37.8		1.30	5.00	ug/L
98-86-2	Acetophenone	42.6		0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	42.5		1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	41.5		1.40	2.50	ug/L
67-72-1	Hexachloroethane	40.9		0.65	5.00	ug/L
98-95-3	Nitrobenzene	42.3		0.76	5.00	ug/L
78-59-1	Isophorone	42.4		0.75	5.00	ug/L
88-75-5	2-Nitrophenol	44.2		1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	42.5		1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	42.0		0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	42.4		0.52	5.00	ug/L
91-20-3	Naphthalene	42.2		0.50	5.00	ug/L
106-47-8	4-Chloroaniline	37.2		0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	42.5		0.54	5.00	ug/L
105-60-2	Caprolactam	48.3		1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	44.3		0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	42.5		0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	71.7		3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	41.4		0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	42.1		0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	42.6		0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	42.1		0.61	5.00	ug/L
88-74-4	2-Nitroaniline	44.5		1.30	5.00	ug/L
131-11-3	Dimethylphthalate	44.8		0.61	5.00	ug/L

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168716BSD	SDG No.:	Q2458
Lab Sample ID:	PB168716BSD	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	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 :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143028.D	1	07/03/25 08:56	07/08/25 12:25	PB168716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	42.7		0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	45.4		0.92	5.00	ug/L
99-09-2	3-Nitroaniline	37.4		1.10	5.00	ug/L
83-32-9	Acenaphthene	46.6		0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	91.4	E	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	75.8		2.40	10.0	ug/L
132-64-9	Dibenzofuran	42.9		0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	45.8		1.20	5.00	ug/L
84-66-2	Diethylphthalate	45.5		0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	43.7		0.68	5.00	ug/L
86-73-7	Fluorene	44.1		0.63	5.00	ug/L
100-01-6	4-Nitroaniline	44.5		1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	44.8		2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	43.7		0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	45.2		0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	43.8		0.52	5.00	ug/L
1912-24-9	Atrazine	48.4		1.00	5.00	ug/L
87-86-5	Pentachlorophenol	78.4		1.60	10.0	ug/L
85-01-8	Phenanthrene	43.2		0.50	5.00	ug/L
120-12-7	Anthracene	43.9		0.61	5.00	ug/L
86-74-8	Carbazole	44.0		0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	46.8		1.20	5.00	ug/L
206-44-0	Fluoranthene	43.1		0.82	5.00	ug/L
129-00-0	Pyrene	46.3		0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	48.4		1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	36.3		0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	45.6		0.45	5.00	ug/L
218-01-9	Chrysene	44.0		0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	44.2		1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	42.5		2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	42.8		0.49	5.00	ug/L

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168716BSD	SDG No.:	Q2458
Lab Sample ID:	PB168716BSD	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	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 :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143028.D	1	07/03/25 08:56	07/08/25 12:25	PB168716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	44.9		0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	44.2		0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	42.5		0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	42.9		0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	42.8		0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	42.9		0.52	5.00	ug/L
123-91-1	1,4-Dioxane	32.4		1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	43.3		0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	116		23 - 138	77%	SPK: 150
13127-88-3	Phenol-d6	116		10 - 134	78%	SPK: 150
4165-60-0	Nitrobenzene-d5	74.9		67 - 132	75%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.5		52 - 132	75%	SPK: 100
118-79-6	2,4,6-Tribromophenol	128		44 - 137	85%	SPK: 150
1718-51-0	Terphenyl-d14	81.6		42 - 152	82%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	60400	6.875			
1146-65-2	Naphthalene-d8	226000	8.157			
15067-26-2	Acenaphthene-d10	119000	9.922			
1517-22-2	Phenanthrene-d10	197000	11.41			
1719-03-5	Chrysene-d12	99600	14.057			
1520-96-3	Perylene-d12	118000	15.557			

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

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67MS	SDG No.:	Q2458
Lab Sample ID:	Q2458-04MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.7
Sample Wt/Vol:	30.08 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
BF142970.D	1	07/01/25 09:30	07/02/25 14:47	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1100		170	370	ug/Kg
108-95-2	Phenol	1700		24.6	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1700		27.0	190	ug/Kg
95-57-8	2-Chlorophenol	1700		27.1	190	ug/Kg
95-48-7	2-Methylphenol	1700		33.2	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1600		41.7	190	ug/Kg
98-86-2	Acetophenone	1800		32.8	190	ug/Kg
65794-96-9	3+4-Methylphenols	1800		45.7	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1700		52.7	88.9	ug/Kg
67-72-1	Hexachloroethane	1700		19.6	190	ug/Kg
98-95-3	Nitrobenzene	1700		20.3	190	ug/Kg
78-59-1	Isophorone	1700		36.5	190	ug/Kg
88-75-5	2-Nitrophenol	1800		64.7	190	ug/Kg
105-67-9	2,4-Dimethylphenol	1800		72.0	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1700		34.2	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1800		31.5	190	ug/Kg
91-20-3	Naphthalene	1700		25.2	190	ug/Kg
106-47-8	4-Chloroaniline	670		39.4	190	ug/Kg
87-68-3	Hexachlorobutadiene	1800		28.1	190	ug/Kg
105-60-2	Caprolactam	2000		57.9	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1800		31.9	190	ug/Kg
91-57-6	2-Methylnaphthalene	1700		28.5	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3300	E	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1800		22.0	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1700		32.4	190	ug/Kg
92-52-4	1,1-Biphenyl	1700		24.2	190	ug/Kg
91-58-7	2-Chloronaphthalene	1700		25.0	190	ug/Kg
88-74-4	2-Nitroaniline	1800		53.5	190	ug/Kg
131-11-3	Dimethylphthalate	1800		30.1	190	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67MS	SDG No.:	Q2458
Lab Sample ID:	Q2458-04MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.7
Sample Wt/Vol:	30.08 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
BF142970.D	1	07/01/25 09:30	07/02/25 14:47	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1700		32.1	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		37.4	190	ug/Kg
99-09-2	3-Nitroaniline	1000		51.1	190	ug/Kg
83-32-9	Acenaphthene	1900		23.7	190	ug/Kg
51-28-5	2,4-Dinitrophenol	3700	E	250	370	ug/Kg
100-02-7	4-Nitrophenol	3700	E	120	370	ug/Kg
132-64-9	Dibenzofuran	1800		25.2	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	1900		55.7	190	ug/Kg
84-66-2	Diethylphthalate	1900		31.5	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1800		29.7	190	ug/Kg
86-73-7	Fluorene	1800		28.1	190	ug/Kg
100-01-6	4-Nitroaniline	1900		71.4	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1800		110	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1800		36.6	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1800		30.9	190	ug/Kg
118-74-1	Hexachlorobenzene	1800		28.1	190	ug/Kg
1912-24-9	Atrazine	2100		37.8	190	ug/Kg
87-86-5	Pentachlorophenol	3400	E	57.0	370	ug/Kg
85-01-8	Phenanthrene	1800		23.2	190	ug/Kg
120-12-7	Anthracene	1800		37.0	190	ug/Kg
86-74-8	Carbazole	1800		34.7	190	ug/Kg
84-74-2	Di-n-butylphthalate	2100		53.3	190	ug/Kg
206-44-0	Fluoranthene	1800		33.4	190	ug/Kg
129-00-0	Pyrene	1700		40.0	190	ug/Kg
85-68-7	Butylbenzylphthalate	2100		79.4	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	620		40.8	370	ug/Kg
56-55-3	Benzo(a)anthracene	1800		25.6	190	ug/Kg
218-01-9	Chrysene	1800		22.1	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1900		65.8	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1500		96.5	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		21.1	190	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67MS	SDG No.:	Q2458
Lab Sample ID:	Q2458-04MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.7
Sample Wt/Vol:	30.08 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
BF142970.D	1	07/01/25 09:30	07/02/25 14:47	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1900		24.9	190	ug/Kg
50-32-8	Benzo(a)pyrene	1800		32.8	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		32.4	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		30.5	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1600		28.6	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1800		28.5	190	ug/Kg
123-91-1	1,4-Dioxane	1400		50.3	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1800		30.5	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	79.4		18 - 112	53%	SPK: 150
13127-88-3	Phenol-d6	81.1		15 - 107	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	50.8		18 - 107	51%	SPK: 100
321-60-8	2-Fluorobiphenyl	51.1		20 - 109	51%	SPK: 100
118-79-6	2,4,6-Tribromophenol	89.2		10 - 116	59%	SPK: 150
1718-51-0	Terphenyl-d14	50.0		10 - 105	50%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	54300	6.875			
1146-65-2	Naphthalene-d8	204000	8.157			
15067-26-2	Acenaphthene-d10	108000	9.916			
1517-22-2	Phenanthrene-d10	181000	11.404			
1719-03-5	Chrysene-d12	104000	14.051			
1520-96-3	Perylene-d12	111000	15.545			

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

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67MSD	SDG No.:	Q2458
Lab Sample ID:	Q2458-04MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.7
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
BF142971.D	1	07/01/25 09:30	07/02/25 15:17	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1000		170	370	ug/Kg
108-95-2	Phenol	1600		24.6	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		27.0	190	ug/Kg
95-57-8	2-Chlorophenol	1600		27.1	190	ug/Kg
95-48-7	2-Methylphenol	1700		33.3	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1500		41.7	190	ug/Kg
98-86-2	Acetophenone	1700		32.8	190	ug/Kg
65794-96-9	3+4-Methylphenols	1700		45.7	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1600		52.7	89.0	ug/Kg
67-72-1	Hexachloroethane	1600		19.6	190	ug/Kg
98-95-3	Nitrobenzene	1600		20.4	190	ug/Kg
78-59-1	Isophorone	1600		36.5	190	ug/Kg
88-75-5	2-Nitrophenol	1700		64.8	190	ug/Kg
105-67-9	2,4-Dimethylphenol	1600		72.1	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1600		34.3	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1700		31.5	190	ug/Kg
91-20-3	Naphthalene	1600		25.3	190	ug/Kg
106-47-8	4-Chloroaniline	680		39.4	190	ug/Kg
87-68-3	Hexachlorobutadiene	1600		28.1	190	ug/Kg
105-60-2	Caprolactam	1900		58.0	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1700		31.9	190	ug/Kg
91-57-6	2-Methylnaphthalene	1600		28.5	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3000	E	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1600		22.0	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1700		32.4	190	ug/Kg
92-52-4	1,1-Biphenyl	1700		24.3	190	ug/Kg
91-58-7	2-Chloronaphthalene	1600		25.0	190	ug/Kg
88-74-4	2-Nitroaniline	1700		53.5	190	ug/Kg
131-11-3	Dimethylphthalate	1800		30.2	190	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67MSD	SDG No.:	Q2458
Lab Sample ID:	Q2458-04MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.7
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
BF142971.D	1	07/01/25 09:30	07/02/25 15:17	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1600		32.2	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1800		37.4	190	ug/Kg
99-09-2	3-Nitroaniline	1000		51.2	190	ug/Kg
83-32-9	Acenaphthene	1800		23.7	190	ug/Kg
51-28-5	2,4-Dinitrophenol	3400	E	250	370	ug/Kg
100-02-7	4-Nitrophenol	3600	E	120	370	ug/Kg
132-64-9	Dibenzofuran	1700		25.3	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	1800		55.7	190	ug/Kg
84-66-2	Diethylphthalate	1800		31.5	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1700		29.7	190	ug/Kg
86-73-7	Fluorene	1700		28.1	190	ug/Kg
100-01-6	4-Nitroaniline	1800		71.4	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1600		110	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1600		36.6	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1700		30.9	190	ug/Kg
118-74-1	Hexachlorobenzene	1600		28.1	190	ug/Kg
1912-24-9	Atrazine	2000		37.8	190	ug/Kg
87-86-5	Pentachlorophenol	3100	E	57.1	370	ug/Kg
85-01-8	Phenanthrene	1700		23.3	190	ug/Kg
120-12-7	Anthracene	1700		37.0	190	ug/Kg
86-74-8	Carbazole	1700		34.7	190	ug/Kg
84-74-2	Di-n-butylphthalate	2000		53.3	190	ug/Kg
206-44-0	Fluoranthene	1700		33.4	190	ug/Kg
129-00-0	Pyrene	1600		40.1	190	ug/Kg
85-68-7	Butylbenzylphthalate	2000		79.4	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	650		40.8	370	ug/Kg
56-55-3	Benzo(a)anthracene	1700		25.6	190	ug/Kg
218-01-9	Chrysene	1700		22.1	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1800		65.9	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1500		96.6	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	1800		21.1	190	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67MSD	SDG No.:	Q2458
Lab Sample ID:	Q2458-04MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.7
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
BF142971.D	1	07/01/25 09:30	07/02/25 15:17	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1800		24.9	190	ug/Kg
50-32-8	Benzo(a)pyrene	1700		32.8	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1500		32.4	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1500		30.5	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1400		28.6	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1600		28.5	190	ug/Kg
123-91-1	1,4-Dioxane	1300		50.3	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		30.5	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	74.7		18 - 112	50%	SPK: 150
13127-88-3	Phenol-d6	76.4		15 - 107	51%	SPK: 150
4165-60-0	Nitrobenzene-d5	46.7		18 - 107	47%	SPK: 100
321-60-8	2-Fluorobiphenyl	48.2		20 - 109	48%	SPK: 100
118-79-6	2,4,6-Tribromophenol	81.8		10 - 116	55%	SPK: 150
1718-51-0	Terphenyl-d14	46.6		10 - 105	47%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	56100	6.875			
1146-65-2	Naphthalene-d8	217000	8.157			
15067-26-2	Acenaphthene-d10	114000	9.916			
1517-22-2	Phenanthrene-d10	198000	11.404			
1719-03-5	Chrysene-d12	113000	14.056			
1520-96-3	Perylene-d12	120000	15.545			

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

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

CALIBRATION SUMMARY

Response Factor Report BNA_F

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

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

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

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

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

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

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

(#) = Out of Range

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2458

Instrument ID: BNA_F Calibration Date/Time: 07/01/2025 10:47

Lab File ID: BF142941.D Init. Calib. Date(s): 06/19/2025 06/19/2025

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.201	1.196		-0.4	
Benzaldehyde	0.841	0.981		16.6	
Phenol-d6	1.417	1.371		-3.2	
Phenol	1.575	1.539		-2.3	20.0
bis(2-Chloroethyl)ether	1.126	1.074		-4.6	
2-Chlorophenol	1.296	1.271		-1.9	
2-Methylphenol	0.982	0.943		-4.0	
2,2-oxybis(1-Chloropropane)	1.809	1.620		-10.4	
Acetophenone	0.441	0.440		-0.2	
3+4-Methylphenols	1.224	1.200		-2.0	
n-Nitroso-di-n-propylamine	0.824	0.752	0.050	-8.7	
Nitrobenzene-d5	0.365	0.388		6.3	
Hexachloroethane	0.511	0.499		-2.3	
Nitrobenzene	0.330	0.317		-3.9	
Isophorone	0.585	0.543		-7.2	
2-Nitrophenol	0.180	0.182		1.1	20.0
2,4-Dimethylphenol	0.311	0.298		-4.2	
bis(2-Chloroethoxy)methane	0.372	0.351		-5.6	
2,4-Dichlorophenol	0.282	0.278		-1.4	20.0
Naphthalene	0.979	0.962		-1.7	
4-Chloroaniline	0.398	0.373		-6.3	
Hexachlorobutadiene	0.190	0.192		1.1	20.0
Caprolactam	0.075	0.066		-12.0	
4-Chloro-3-methylphenol	0.281	0.259		-7.8	20.0
2-Methylnaphthalene	0.607	0.581		-4.3	
Hexachlorocyclopentadiene	0.335	0.285	0.050	-14.9	
2,4,6-Trichlorophenol	0.385	0.386		0.3	20.0
2-Fluorobiphenyl	1.522	1.666		9.5	
2,4,5-Trichlorophenol	0.405	0.387		-4.4	
1,1-Biphenyl	1.580	1.580		0.0	
2-Chloronaphthalene	1.186	1.191		0.4	
2-Nitroaniline	0.332	0.310		-6.6	
Dimethylphthalate	1.295	1.215		-6.2	
Acenaphthylene	1.952	1.921		-1.6	
2,6-Dinitrotoluene	0.284	0.270		-4.9	
3-Nitroaniline	0.313	0.286		-8.6	
Acenaphthene	1.191	1.163		-2.4	20.0
2,4-Dinitrophenol	0.142	0.118	0.050	-16.9	
4-Nitrophenol	0.214	0.170	0.050	-20.6	

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2458

Instrument ID: BNA_F Calibration Date/Time: 07/01/2025 10:47

Lab File ID: BF142941.D Init. Calib. Date(s): 06/19/2025 06/19/2025

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.708	1.646		-3.6	
2,4-Dinitrotoluene	0.378	0.345		-8.7	
Diethylphthalate	1.269	1.171		-7.7	
4-Chlorophenyl-phenylether	0.636	0.605		-4.9	
Fluorene	1.334	1.252		-6.1	
4-Nitroaniline	0.286	0.264		-7.7	
4,6-Dinitro-2-methylphenol	0.121	0.115		-5.0	
n-Nitrosodiphenylamine	0.693	0.694		0.1	20.0
2,4,6-Tribromophenol	0.206	0.185		-10.2	
4-Bromophenyl-phenylether	0.228	0.233		2.2	
Hexachlorobenzene	0.253	0.254		0.4	
Atrazine	0.179	0.187		4.5	
Pentachlorophenol	0.126	0.106		-15.9	20.0
Phenanthrene	1.083	1.062		-1.9	
Anthracene	1.111	1.107		-0.4	
Carbazole	0.959	0.938		-2.2	
Di-n-butylphthalate	0.999	1.056		5.7	
Fluoranthene	1.028	1.022		-0.6	20.0
Pyrene	1.875	1.566		-16.5	
Terphenyl-d14	1.447	1.189		-17.8	
Butylbenzylphthalate	0.544	0.580		6.6	
3,3-Dichlorobenzidine	0.438	0.458		4.6	
Benzo(a)anthracene	1.349	1.288		-4.5	
Chrysene	1.204	1.192		-1.0	
Bis(2-ethylhexyl)phthalate	0.782	0.932		19.2	
Di-n-octyl phthalate	1.475	1.697		15.1	20.0
Benzo(b)fluoranthene	1.157	1.116		-3.5	
Benzo(k)fluoranthene	1.083	1.089		0.6	
Benzo(a)pyrene	1.118	1.105		-1.2	20.0
Indeno(1,2,3-cd)pyrene	1.523	1.413		-7.2	
Dibenzo(a,h)anthracene	1.238	1.151		-7.0	
Benzo(g,h,i)perylene	1.234	1.133		-8.2	
1,2,4,5-Tetrachlorobenzene	0.590	0.606		2.7	
1,4-Dioxane	0.480	0.455		-5.2	20.0
2,3,4,6-Tetrachlorophenol	0.326	0.292		-10.4	

All other compounds must meet a minimum RRF of 0.010.

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2458

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

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

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

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

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

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2458

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

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

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

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

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

All other compounds must meet a minimum RRF of 0.010.

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2458

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

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

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

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

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

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2458

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

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

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

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

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

All other compounds must meet a minimum RRF of 0.010.

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2458

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

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

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

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

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

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2458

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

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

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

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

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

All other compounds must meet a minimum RRF of 0.010.