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

LAB CHRONICLE

OrderID:	P4722	**OrderDate:**	11/5/2024 3:33:08 PM
Client:	Walsh Construction Company II, LLC	**Project:**	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2
Contact:	Kayla Timony	**Location:**	L23,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4722-03	**WC-1(0-6)**	**SOIL**			**11/05/24**			**11/05/24**
			SVOC-TCL BNA -20	8270E		11/07/24	11/08/24	
P4722-04	**WC-1(0-6)**	**TCLP**			**11/05/24**			**11/05/24**
			TCLP BNA	8270E		11/07/24	11/08/24	
P4722-08	**WC-2(0-6)**	**SOIL**			**11/05/24**			**11/05/24**
			SVOC-TCL BNA -20	8270E		11/07/24	11/08/24	
P4722-08DL	**WC-2(0-6)DL**	**SOIL**			**11/05/24**			**11/05/24**
			SVOC-TCL BNA -20	8270E		11/07/24	11/14/24	
P4722-09	**WC-2(0-6)**	**TCLP**			**11/05/24**			**11/05/24**
			TCLP BNA	8270E		11/07/24	11/08/24	
P4722-13	**WC-3(0-6)**	**SOIL**			**11/05/24**			**11/05/24**
			SVOC-TCL BNA -20	8270E		11/07/24	11/07/24	
P4722-14	**WC-3(0-6)**	**TCLP**			**11/05/24**			**11/05/24**
			TCLP BNA	8270E		11/07/24	11/08/24	

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Hit Summary Sheet
SW-846

SDG No.: P4722

Client: Walsh Construction Company II, LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**WC-1(0-6)**							
P4722-03	WC-1(0-6)	SOIL	Phenanthrene	910.000		180	360	ug/Kg
P4722-03	WC-1(0-6)	SOIL	Anthracene	230.000	J	180	360	ug/Kg
P4722-03	WC-1(0-6)	SOIL	Fluoranthene	1,600.000		170	360	ug/Kg
P4722-03	WC-1(0-6)	SOIL	Pyrene	1,400.000		180	360	ug/Kg
P4722-03	WC-1(0-6)	SOIL	Benzo(a)anthracene	890.000		170	360	ug/Kg
P4722-03	WC-1(0-6)	SOIL	Chrysene	680.000		170	360	ug/Kg
P4722-03	WC-1(0-6)	SOIL	Benzo(b)fluoranthene	850.000		170	360	ug/Kg
P4722-03	WC-1(0-6)	SOIL	Benzo(k)fluoranthene	430.000		180	360	ug/Kg
P4722-03	WC-1(0-6)	SOIL	Benzo(a)pyrene	830.000		200	360	ug/Kg
P4722-03	WC-1(0-6)	SOIL	Indeno(1,2,3-cd)pyrene	380.000		170	360	ug/Kg
P4722-03	WC-1(0-6)	SOIL	Benzo(g,h,i)perylene	450.000		170	360	ug/Kg
			Total Svoc :	**8,650.00**				
P4722-03	WC-1(0-6)	SOIL	1H-Cyclopropa[l]phenanthrene,1a *	490.000	J	0	0	ug/Kg
P4722-03	WC-1(0-6)	SOIL	4H-Cyclopenta[def]phenanthrene *	310.000	J	0	0	ug/Kg
P4722-03	WC-1(0-6)	SOIL	Benzophenone *	150.000	J	0	0	ug/Kg
			Total Tics :	**950.00**				
			Total Concentration:	**9,600.00**				
Client ID :	**WC-2(0-6)**							
P4722-08	WC-2(0-6)	SOIL	Naphthalene	160.000	J	91.5	190	ug/Kg
P4722-08	WC-2(0-6)	SOIL	Acenaphthylene	140.000	J	95.8	190	ug/Kg
P4722-08	WC-2(0-6)	SOIL	Acenaphthene	250.000		89.8	190	ug/Kg
P4722-08	WC-2(0-6)	SOIL	Dibenzofuran	150.000	J	93.5	190	ug/Kg
P4722-08	WC-2(0-6)	SOIL	Fluorene	210.000		94.7	190	ug/Kg
P4722-08	WC-2(0-6)	SOIL	Phenanthrene	2,200.000		93	190	ug/Kg
P4722-08	WC-2(0-6)	SOIL	Anthracene	600.000		93.5	190	ug/Kg
P4722-08	WC-2(0-6)	SOIL	Carbazole	220.000		88.9	190	ug/Kg
P4722-08	WC-2(0-6)	SOIL	Fluoranthene	3,000.000	E	90.5	190	ug/Kg
P4722-08	WC-2(0-6)	SOIL	Pyrene	2,300.000		91.9	190	ug/Kg
P4722-08	WC-2(0-6)	SOIL	Benzo(a)anthracene	1,600.000		89.4	190	ug/Kg
P4722-08	WC-2(0-6)	SOIL	Chrysene	1,400.000		88	190	ug/Kg
P4722-08	WC-2(0-6)	SOIL	Benzo(b)fluoranthene	2,000.000		89.8	190	ug/Kg
P4722-08	WC-2(0-6)	SOIL	Benzo(k)fluoranthene	620.000		91.5	190	ug/Kg
P4722-08	WC-2(0-6)	SOIL	Benzo(a)pyrene	1,600.000		100	190	ug/Kg
P4722-08	WC-2(0-6)	SOIL	Indeno(1,2,3-cd)pyrene	770.000		86.5	190	ug/Kg
P4722-08	WC-2(0-6)	SOIL	Dibenzo(a,h)anthracene	260.000		89.9	190	ug/Kg
P4722-08	WC-2(0-6)	SOIL	Benzo(g,h,i)perylene	930.000		88.7	190	ug/Kg
			Total Svoc :	**18,410.00**				

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Hit Summary Sheet
SW-846

SDG No.: P4722

Client: Walsh Construction Company II, LLC

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
P4722-08	WC-2(0-6)	SOIL	Cyclopenta(def)phenanthrenone	*	180.000	J	0	0	ug/Kg
P4722-08	WC-2(0-6)	SOIL	Dibenzothiophene	*	130.000	J	0	0	ug/Kg
P4722-08	WC-2(0-6)	SOIL	Fluoranthene, 2-methyl-	*	140.000	J	0	0	ug/Kg
P4722-08	WC-2(0-6)	SOIL	Naphthalene, 2-phenyl-	*	180.000	J	0	0	ug/Kg
P4722-08	WC-2(0-6)	SOIL	Perylene	*	1,000.000	J	0	0	ug/Kg
P4722-08	WC-2(0-6)	SOIL	Phenanthrene, 2,3-dimethyl-	*	200.000	J	0	0	ug/Kg
P4722-08	WC-2(0-6)	SOIL	Phenanthrene, 2-methyl-	*	220.000	J	0	0	ug/Kg
P4722-08	WC-2(0-6)	SOIL	Pyrene, 1-methyl-	*	100.000	J	0	0	ug/Kg
P4722-08	WC-2(0-6)	SOIL	unknown12.498	*	160.000	J	0	0	ug/Kg
P4722-08	WC-2(0-6)	SOIL	11H-Benzo[a]fluoren-11-one	*	160.000	J	0	0	ug/Kg
P4722-08	WC-2(0-6)	SOIL	1H-Cyclopropa[l]phenanthrene,1a	*	640.000	J	0	0	ug/Kg
P4722-08	WC-2(0-6)	SOIL	1H-Indene, 2-phenyl-	*	150.000	J	0	0	ug/Kg
P4722-08	WC-2(0-6)	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	110.000	AB	0	0	ug/Kg
P4722-08	WC-2(0-6)	SOIL	4H-Cyclopenta[def]phenanthrene	*	590.000	J	0	0	ug/Kg
P4722-08	WC-2(0-6)	SOIL	4-Methylcarbazole	*	98.900	J	0	0	ug/Kg
P4722-08	WC-2(0-6)	SOIL	9H-Fluoren-9-one	*	97.800	J	0	0	ug/Kg
P4722-08	WC-2(0-6)	SOIL	9H-Fluorene, 1-methyl-	*	99.300	J	0	0	ug/Kg
P4722-08	WC-2(0-6)	SOIL	Benzo[e]pyrene	*	260.000	J	0	0	ug/Kg
P4722-08	WC-2(0-6)	SOIL	Benzophenone	*	230.000	J	0	0	ug/Kg
P4722-08	WC-2(0-6)	SOIL	Butane, 2-methoxy-2-methyl-	*	2,700.000	J	0	0	ug/Kg
			Total Tics :		**7,446.00**				
			Total Concentration:		**25,856.00**				
Client ID :	**WC-2(0-6)DL**								
P4722-08DL	WC-2(0-6)DL	SOIL	Acenaphthene		250.000	JD	180	380	ug/Kg
P4722-08DL	WC-2(0-6)DL	SOIL	Fluorene		200.000	JD	190	380	ug/Kg
P4722-08DL	WC-2(0-6)DL	SOIL	Phenanthrene		2,300.000	D	190	380	ug/Kg
P4722-08DL	WC-2(0-6)DL	SOIL	Anthracene		590.000	D	190	380	ug/Kg
P4722-08DL	WC-2(0-6)DL	SOIL	Carbazole		210.000	JD	180	380	ug/Kg
P4722-08DL	WC-2(0-6)DL	SOIL	Fluoranthene		3,000.000	D	180	380	ug/Kg
P4722-08DL	WC-2(0-6)DL	SOIL	Pyrene		2,400.000	D	180	380	ug/Kg
P4722-08DL	WC-2(0-6)DL	SOIL	Benzo(a)anthracene		1,600.000	D	180	380	ug/Kg
P4722-08DL	WC-2(0-6)DL	SOIL	Chrysene		1,500.000	D	180	380	ug/Kg
P4722-08DL	WC-2(0-6)DL	SOIL	Benzo(b)fluoranthene		2,000.000	D	180	380	ug/Kg
P4722-08DL	WC-2(0-6)DL	SOIL	Benzo(k)fluoranthene		620.000	D	180	380	ug/Kg
P4722-08DL	WC-2(0-6)DL	SOIL	Benzo(a)pyrene		1,600.000	D	210	380	ug/Kg
P4722-08DL	WC-2(0-6)DL	SOIL	Indeno(1,2,3-cd)pyrene		800.000	D	170	380	ug/Kg
P4722-08DL	WC-2(0-6)DL	SOIL	Dibenzo(a,h)anthracene		230.000	JD	180	380	ug/Kg
P4722-08DL	WC-2(0-6)DL	SOIL	Benzo(g,h,i)perylene		950.000	D	180	380	ug/Kg
			Total Svoc :		**18,250.00**				

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Hit Summary Sheet
SW-846

SDG No.: P4722

Client: Walsh Construction Company II, LLC

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
			Total Concentration:		**18,250.00**				
Client ID :	**WC-3(0-6)**								
P4722-13	WC-3(0-6)	SOIL	Phenanthrene		2,700.000		480	980	ug/Kg
P4722-13	WC-3(0-6)	SOIL	Anthracene		610.000	J	490	980	ug/Kg
P4722-13	WC-3(0-6)	SOIL	Fluoranthene		4,600.000		470	980	ug/Kg
P4722-13	WC-3(0-6)	SOIL	Pyrene		2,900.000		480	980	ug/Kg
P4722-13	WC-3(0-6)	SOIL	Benzo(a)anthracene		2,700.000		470	980	ug/Kg
P4722-13	WC-3(0-6)	SOIL	Chrysene		2,200.000		460	980	ug/Kg
P4722-13	WC-3(0-6)	SOIL	Benzo(b)fluoranthene		3,200.000		470	980	ug/Kg
P4722-13	WC-3(0-6)	SOIL	Benzo(k)fluoranthene		1,100.000		480	980	ug/Kg
P4722-13	WC-3(0-6)	SOIL	Benzo(a)pyrene		2,400.000		540	980	ug/Kg
P4722-13	WC-3(0-6)	SOIL	Indeno(1,2,3-cd)pyrene		990.000		450	980	ug/Kg
P4722-13	WC-3(0-6)	SOIL	Benzo(g,h,i)perylene		1,000.000		460	980	ug/Kg
			Total Svoc :		**24,400.00**				
P4722-13	WC-3(0-6)	SOIL	11H-Benzo[a]fluorene	*	540.000	J	0	0	ug/Kg
P4722-13	WC-3(0-6)	SOIL	1H-Cyclopropa[l]phenanthrene,1a	*	680.000	J	0	0	ug/Kg
P4722-13	WC-3(0-6)	SOIL	4H-Cyclopenta[def]phenanthrene	*	970.000	J	0	0	ug/Kg
P4722-13	WC-3(0-6)	SOIL	Anthracene, 2-methyl-	*	440.000	J	0	0	ug/Kg
P4722-13	WC-3(0-6)	SOIL	Phenanthrene, 2,5-dimethyl-	*	390.000	J	0	0	ug/Kg
P4722-13	WC-3(0-6)	SOIL	Pyrene, 1-methyl-	*	430.000	J	0	0	ug/Kg
			Total Tics :		**3,450.00**				
			Total Concentration:		**27,850.00**				

SAMPLE DATA

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

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-1(0-6)	SDG No.:	P4722
Lab Sample ID:	P4722-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	93.8
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
BF140305.D	2	11/07/24 09:20	11/08/24 18:03	PB164750

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	390	U	390	700	ug/Kg
108-95-2	Phenol	180	U	180	360	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	180	U	180	360	ug/Kg
95-57-8	2-Chlorophenol	180	U	180	360	ug/Kg
95-48-7	2-Methylphenol	170	U	170	360	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	190	U	190	360	ug/Kg
98-86-2	Acetophenone	190	U	190	360	ug/Kg
65794-96-9	3+4-Methylphenols	170	U	170	700	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	85.9	U	85.9	170	ug/Kg
67-72-1	Hexachloroethane	180	U	180	360	ug/Kg
98-95-3	Nitrobenzene	190	U	190	360	ug/Kg
78-59-1	Isophorone	180	U	180	360	ug/Kg
88-75-5	2-Nitrophenol	200	U	200	360	ug/Kg
105-67-9	2,4-Dimethylphenol	200	U	200	360	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	180	U	180	360	ug/Kg
120-83-2	2,4-Dichlorophenol	160	U	160	360	ug/Kg
91-20-3	Naphthalene	180	U	180	360	ug/Kg
106-47-8	4-Chloroaniline	180	U	180	360	ug/Kg
87-68-3	Hexachlorobutadiene	180	U	180	360	ug/Kg
105-60-2	Caprolactam	180	U	180	700	ug/Kg
59-50-7	4-Chloro-3-methylphenol	170	U	170	360	ug/Kg
91-57-6	2-Methylnaphthalene	180	U	180	360	ug/Kg
77-47-4	Hexachlorocyclopentadiene	330	UQ	330	700	ug/Kg
88-06-2	2,4,6-Trichlorophenol	150	U	150	360	ug/Kg
95-95-4	2,4,5-Trichlorophenol	160	U	160	360	ug/Kg
92-52-4	1,1-Biphenyl	190	U	190	360	ug/Kg
91-58-7	2-Chloronaphthalene	180	U	180	360	ug/Kg
88-74-4	2-Nitroaniline	200	U	200	360	ug/Kg
131-11-3	Dimethylphthalate	170	U	170	360	ug/Kg

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Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-1(0-6)	SDG No.:	P4722
Lab Sample ID:	P4722-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	93.8
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
BF140305.D	2	11/07/24 09:20	11/08/24 18:03	PB164750

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	180	U	180	360	ug/Kg
606-20-2	2,6-Dinitrotoluene	180	U	180	360	ug/Kg
99-09-2	3-Nitroaniline	190	U	190	360	ug/Kg
83-32-9	Acenaphthene	170	U	170	360	ug/Kg
51-28-5	2,4-Dinitrophenol	520	U	520	700	ug/Kg
100-02-7	4-Nitrophenol	250	U	250	700	ug/Kg
132-64-9	Dibenzofuran	180	U	180	360	ug/Kg
121-14-2	2,4-Dinitrotoluene	180	U	180	360	ug/Kg
84-66-2	Diethylphthalate	170	U	170	360	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	180	U	180	360	ug/Kg
86-73-7	Fluorene	180	U	180	360	ug/Kg
100-01-6	4-Nitroaniline	230	U	230	360	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	250	U	250	700	ug/Kg
86-30-6	n-Nitrosodiphenylamine	170	U	170	360	ug/Kg
101-55-3	4-Bromophenyl-phenylether	170	U	170	360	ug/Kg
118-74-1	Hexachlorobenzene	180	U	180	360	ug/Kg
1912-24-9	Atrazine	190	U	190	360	ug/Kg
87-86-5	Pentachlorophenol	160	U	160	700	ug/Kg
85-01-8	Phenanthrene	910		180	360	ug/Kg
120-12-7	Anthracene	230	J	180	360	ug/Kg
86-74-8	Carbazole	170	U	170	360	ug/Kg
84-74-2	Di-n-butylphthalate	180	U	180	360	ug/Kg
206-44-0	Fluoranthene	1600		170	360	ug/Kg
129-00-0	Pyrene	1400		180	360	ug/Kg
85-68-7	Butylbenzylphthalate	210	U	210	360	ug/Kg
91-94-1	3,3-Dichlorobenzidine	210	U	210	700	ug/Kg
56-55-3	Benzo(a)anthracene	890		170	360	ug/Kg
218-01-9	Chrysene	680		170	360	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	190	U	190	360	ug/Kg
117-84-0	Di-n-octyl phthalate	230	U	230	700	ug/Kg
205-99-2	Benzo(b)fluoranthene	850		170	360	ug/Kg

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Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-1(0-6)	SDG No.:	P4722
Lab Sample ID:	P4722-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	93.8
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
BF140305.D	2	11/07/24 09:20	11/08/24 18:03	PB164750

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	430		180	360	ug/Kg
50-32-8	Benzo(a)pyrene	830		200	360	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	380		170	360	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	170	U	170	360	ug/Kg
191-24-2	Benzo(g,h,i)perylene	450		170	360	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	180	U	180	360	ug/Kg
123-91-1	1,4-Dioxane	230	U	230	360	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	160	U	160	360	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	82.4		18 - 112	55%	SPK: 150
13127-88-3	Phenol-d6	80.3		15 - 107	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	55.9		18 - 107	56%	SPK: 100
321-60-8	2-Fluorobiphenyl	62.5		20 - 109	62%	SPK: 100
118-79-6	2,4,6-Tribromophenol	78.3		10 - 116	52%	SPK: 150
1718-51-0	Terphenyl-d14	60.2		10 - 105	60%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	116000	6.875			
1146-65-2	Naphthalene-d8	403000	8.157			
15067-26-2	Acenaphthene-d10	201000	9.916			
1517-22-2	Phenanthrene-d10	343000	11.404			
1719-03-5	Chrysene-d12	224000	14.057			
1520-96-3	Perylene-d12	184000	15.563			
TENTATIVE IDENTIFIED COMPOUNDS						
000119-61-9	Benzophenone	150	J		10.6	ug/Kg
000949-41-7	1H-Cyclopropa[l]phenanthrene,1a,9b	490	J		11.9	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	310	J		12.0	ug/Kg

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Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-1(0-6)	SDG No.:	P4722
Lab Sample ID:	P4722-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	93.8
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
BF140305.D	2	11/07/24 09:20	11/08/24 18:03	PB164750

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

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

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

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Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-2(0-6)	SDG No.:	P4722
Lab Sample ID:	P4722-08	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.1
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
BF140303.D	1	11/07/24 09:20	11/08/24 17:10	PB164750

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	370	ug/Kg
108-95-2	Phenol	91.8	U	91.8	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	92.7	U	92.7	190	ug/Kg
95-57-8	2-Chlorophenol	92.5	U	92.5	190	ug/Kg
95-48-7	2-Methylphenol	89.2	U	89.2	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	100	U	100	190	ug/Kg
98-86-2	Acetophenone	96.2	U	96.2	190	ug/Kg
65794-96-9	3+4-Methylphenols	88.4	U	88.4	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	44.6	U	44.6	88.6	ug/Kg
67-72-1	Hexachloroethane	91.9	U	91.9	190	ug/Kg
98-95-3	Nitrobenzene	100	U	100	190	ug/Kg
78-59-1	Isophorone	93.7	U	93.7	190	ug/Kg
88-75-5	2-Nitrophenol	100	U	100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	100	U	100	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	95.0	U	95.0	190	ug/Kg
120-83-2	2,4-Dichlorophenol	83.6	U	83.6	190	ug/Kg
91-20-3	Naphthalene	160	J	91.5	190	ug/Kg
106-47-8	4-Chloroaniline	91.5	U	91.5	190	ug/Kg
87-68-3	Hexachlorobutadiene	92.2	U	92.2	190	ug/Kg
105-60-2	Caprolactam	96.1	U	96.1	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	85.8	U	85.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	91.4	U	91.4	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	170	UQ	170	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	79.1	U	79.1	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	81.9	U	81.9	190	ug/Kg
92-52-4	1,1-Biphenyl	96.8	U	96.8	190	ug/Kg
91-58-7	2-Chloronaphthalene	92.2	U	92.2	190	ug/Kg
88-74-4	2-Nitroaniline	110	U	110	190	ug/Kg
131-11-3	Dimethylphthalate	90.5	U	90.5	190	ug/Kg

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Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-2(0-6)	SDG No.:	P4722
Lab Sample ID:	P4722-08	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.1
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
BF140303.D	1	11/07/24 09:20	11/08/24 17:10	PB164750

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	140	J	95.8	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	92.1	U	92.1	190	ug/Kg
99-09-2	3-Nitroaniline	98.8	U	98.8	190	ug/Kg
83-32-9	Acenaphthene	250		89.8	190	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	370	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	370	ug/Kg
132-64-9	Dibenzofuran	150	J	93.5	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	95.4	U	95.4	190	ug/Kg
84-66-2	Diethylphthalate	88.7	U	88.7	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	94.8	U	94.8	190	ug/Kg
86-73-7	Fluorene	210		94.7	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	90.4	U	90.4	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	87.4	U	87.4	190	ug/Kg
118-74-1	Hexachlorobenzene	94.1	U	94.1	190	ug/Kg
1912-24-9	Atrazine	100	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	85.6	U	85.6	370	ug/Kg
85-01-8	Phenanthrene	2200		93.0	190	ug/Kg
120-12-7	Anthracene	600		93.5	190	ug/Kg
86-74-8	Carbazole	220		88.9	190	ug/Kg
84-74-2	Di-n-butylphthalate	93.3	U	93.3	190	ug/Kg
206-44-0	Fluoranthene	3000	E	90.5	190	ug/Kg
129-00-0	Pyrene	2300		91.9	190	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	U	110	370	ug/Kg
56-55-3	Benzo(a)anthracene	1600		89.4	190	ug/Kg
218-01-9	Chrysene	1400		88.0	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	100	U	100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	2000		89.8	190	ug/Kg

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Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-2(0-6)	SDG No.:	P4722
Lab Sample ID:	P4722-08	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.1
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
BF140303.D	1	11/07/24 09:20	11/08/24 17:10	PB164750

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	620		91.5	190	ug/Kg
50-32-8	Benzo(a)pyrene	1600		100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	770		86.5	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	260		89.9	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	930		88.7	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	96.1	U	96.1	190	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	82.7	U	82.7	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	99.8		18 - 112	67%	SPK: 150
13127-88-3	Phenol-d6	97.7		15 - 107	65%	SPK: 150
4165-60-0	Nitrobenzene-d5	66.5		18 - 107	66%	SPK: 100
321-60-8	2-Fluorobiphenyl	71.3		20 - 109	71%	SPK: 100
118-79-6	2,4,6-Tribromophenol	91.7		10 - 116	61%	SPK: 150
1718-51-0	Terphenyl-d14	58.3		10 - 105	58%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	116000	6.875			
1146-65-2	Naphthalene-d8	426000	8.157			
15067-26-2	Acenaphthene-d10	223000	9.916			
1517-22-2	Phenanthrene-d10	344000	11.404			
1719-03-5	Chrysene-d12	256000	14.068			
1520-96-3	Perylene-d12	207000	15.58			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	2700	J		2.15	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	110	AB		5.10	ug/Kg
000119-61-9	Benzophenone	230	J		10.6	ug/Kg
001730-37-6	9H-Fluorene, 1-methyl-	99.3	J		11.0	ug/Kg
000486-25-9	9H-Fluoren-9-one	97.8	J		11.2	ug/Kg
000132-65-0	Dibenzothiophene	130	J		11.3	ug/Kg
002531-84-2	Phenanthrene, 2-methyl-	220	J		11.9	ug/Kg

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Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-2(0-6)	SDG No.:	P4722
Lab Sample ID:	P4722-08	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.1
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
BF140303.D	1	11/07/24 09:20	11/08/24 17:10	PB164750

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000949-41-7	1H-Cyclopropa[l]phenanthrene,1a,9b	640	J		11.9	ug/Kg
004505-48-0	1H-Indene, 2-phenyl-	150	J		12.0	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	590	J		12.0	ug/Kg
003770-48-7	4-Methylcarbazole	98.9	J		12.1	ug/Kg
000612-94-2	Naphthalene, 2-phenyl-	180	J		12.2	ug/Kg
003674-65-5	Phenanthrene, 2,3-dimethyl-	200	J		12.5	ug/Kg
	unknown12.498	160	J		12.5	ug/Kg
005737-13-3	Cyclopenta(def)phenanthrenone	180	J		12.5	ug/Kg
002381-21-7	Pyrene, 1-methyl-	100	J		13.1	ug/Kg
033543-31-6	Fluoranthene, 2-methyl-	140	J		13.2	ug/Kg
000479-79-8	11H-Benzo[a]fluoren-11-one	160	J		13.9	ug/Kg
000192-97-2	Benzo[e]pyrene	260	J		15.3	ug/Kg
000198-55-0	Perylene	1000	J		15.5	ug/Kg

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

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

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Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-2(0-6)DL	SDG No.:	P4722
Lab Sample ID:	P4722-08DL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.1
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
BF140377.D	2	11/07/24 09:20	11/14/24 21:54	PB164750

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	400	UD	400	730	ug/Kg
108-95-2	Phenol	180	UD	180	380	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	190	UD	190	380	ug/Kg
95-57-8	2-Chlorophenol	180	UD	180	380	ug/Kg
95-48-7	2-Methylphenol	180	UD	180	380	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	200	UD	200	380	ug/Kg
98-86-2	Acetophenone	190	UD	190	380	ug/Kg
65794-96-9	3+4-Methylphenols	180	UD	180	730	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	89.2	UD	89.2	180	ug/Kg
67-72-1	Hexachloroethane	180	UD	180	380	ug/Kg
98-95-3	Nitrobenzene	200	UD	200	380	ug/Kg
78-59-1	Isophorone	190	UD	190	380	ug/Kg
88-75-5	2-Nitrophenol	210	UD	210	380	ug/Kg
105-67-9	2,4-Dimethylphenol	210	UD	210	380	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	190	UD	190	380	ug/Kg
120-83-2	2,4-Dichlorophenol	170	UD	170	380	ug/Kg
91-20-3	Naphthalene	180	UD	180	380	ug/Kg
106-47-8	4-Chloroaniline	180	UD	180	380	ug/Kg
87-68-3	Hexachlorobutadiene	180	UD	180	380	ug/Kg
105-60-2	Caprolactam	190	UD	190	730	ug/Kg
59-50-7	4-Chloro-3-methylphenol	170	UD	170	380	ug/Kg
91-57-6	2-Methylnaphthalene	180	UD	180	380	ug/Kg
77-47-4	Hexachlorocyclopentadiene	350	UDQ	350	730	ug/Kg
88-06-2	2,4,6-Trichlorophenol	160	UD	160	380	ug/Kg
95-95-4	2,4,5-Trichlorophenol	160	UD	160	380	ug/Kg
92-52-4	1,1-Biphenyl	190	UD	190	380	ug/Kg
91-58-7	2-Chloronaphthalene	180	UD	180	380	ug/Kg
88-74-4	2-Nitroaniline	210	UD	210	380	ug/Kg
131-11-3	Dimethylphthalate	180	UD	180	380	ug/Kg

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Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-2(0-6)DL	SDG No.:	P4722
Lab Sample ID:	P4722-08DL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.1
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
BF140377.D	2	11/07/24 09:20	11/14/24 21:54	PB164750

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	190	UD	190	380	ug/Kg
606-20-2	2,6-Dinitrotoluene	180	UD	180	380	ug/Kg
99-09-2	3-Nitroaniline	200	UD	200	380	ug/Kg
83-32-9	Acenaphthene	250	JD	180	380	ug/Kg
51-28-5	2,4-Dinitrophenol	540	UD	540	730	ug/Kg
100-02-7	4-Nitrophenol	260	UD	260	730	ug/Kg
132-64-9	Dibenzofuran	190	UD	190	380	ug/Kg
121-14-2	2,4-Dinitrotoluene	190	UD	190	380	ug/Kg
84-66-2	Diethylphthalate	180	UD	180	380	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	190	UD	190	380	ug/Kg
86-73-7	Fluorene	200	JD	190	380	ug/Kg
100-01-6	4-Nitroaniline	240	UD	240	380	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	260	UD	260	730	ug/Kg
86-30-6	n-Nitrosodiphenylamine	180	UD	180	380	ug/Kg
101-55-3	4-Bromophenyl-phenylether	170	UD	170	380	ug/Kg
118-74-1	Hexachlorobenzene	190	UD	190	380	ug/Kg
1912-24-9	Atrazine	200	UD	200	380	ug/Kg
87-86-5	Pentachlorophenol	170	UD	170	730	ug/Kg
85-01-8	Phenanthrene	2300	D	190	380	ug/Kg
120-12-7	Anthracene	590	D	190	380	ug/Kg
86-74-8	Carbazole	210	JD	180	380	ug/Kg
84-74-2	Di-n-butylphthalate	190	UD	190	380	ug/Kg
206-44-0	Fluoranthene	3000	D	180	380	ug/Kg
129-00-0	Pyrene	2400	D	180	380	ug/Kg
85-68-7	Butylbenzylphthalate	210	UD	210	380	ug/Kg
91-94-1	3,3-Dichlorobenzidine	220	UD	220	730	ug/Kg
56-55-3	Benzo(a)anthracene	1600	D	180	380	ug/Kg
218-01-9	Chrysene	1500	D	180	380	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	200	UD	200	380	ug/Kg
117-84-0	Di-n-octyl phthalate	240	UD	240	730	ug/Kg
205-99-2	Benzo(b)fluoranthene	2000	D	180	380	ug/Kg

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Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-2(0-6)DL	SDG No.:	P4722
Lab Sample ID:	P4722-08DL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.1
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
BF140377.D	2	11/07/24 09:20	11/14/24 21:54	PB164750

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	620	D	180	380	ug/Kg
50-32-8	Benzo(a)pyrene	1600	D	210	380	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	800	D	170	380	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	230	JD	180	380	ug/Kg
191-24-2	Benzo(g,h,i)perylene	950	D	180	380	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	190	UD	190	380	ug/Kg
123-91-1	1,4-Dioxane	240	UD	240	380	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	170	UD	170	380	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	102		18 - 112	68%	SPK: 150
13127-88-3	Phenol-d6	97.6		15 - 107	65%	SPK: 150
4165-60-0	Nitrobenzene-d5	71.4		18 - 107	71%	SPK: 100
321-60-8	2-Fluorobiphenyl	81.2		20 - 109	81%	SPK: 100
118-79-6	2,4,6-Tribromophenol	77.8		10 - 116	52%	SPK: 150
1718-51-0	Terphenyl-d14	62.7		10 - 105	63%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	137000	6.875			
1146-65-2	Naphthalene-d8	500000	8.157			
15067-26-2	Acenaphthene-d10	232000	9.91			
1517-22-2	Phenanthrene-d10	344000	11.398			
1719-03-5	Chrysene-d12	250000	14.045			
1520-96-3	Perylene-d12	179000	15.539			

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:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-3(0-6)	SDG No.:	P4722
Lab Sample ID:	P4722-13	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
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
BF140280.D	5	11/07/24 09:20	11/07/24 17:32	PB164750

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1000	U	1000	1900	ug/Kg
108-95-2	Phenol	480	U	480	980	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	480	U	480	980	ug/Kg
95-57-8	2-Chlorophenol	480	U	480	980	ug/Kg
95-48-7	2-Methylphenol	460	U	460	980	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	520	U	520	980	ug/Kg
98-86-2	Acetophenone	500	U	500	980	ug/Kg
65794-96-9	3+4-Methylphenols	460	U	460	1900	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	230	U	230	460	ug/Kg
67-72-1	Hexachloroethane	480	U	480	980	ug/Kg
98-95-3	Nitrobenzene	520	U	520	980	ug/Kg
78-59-1	Isophorone	490	U	490	980	ug/Kg
88-75-5	2-Nitrophenol	540	U	540	980	ug/Kg
105-67-9	2,4-Dimethylphenol	540	U	540	980	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	490	U	490	980	ug/Kg
120-83-2	2,4-Dichlorophenol	440	U	440	980	ug/Kg
91-20-3	Naphthalene	480	U	480	980	ug/Kg
106-47-8	4-Chloroaniline	480	U	480	980	ug/Kg
87-68-3	Hexachlorobutadiene	480	U	480	980	ug/Kg
105-60-2	Caprolactam	500	U	500	1900	ug/Kg
59-50-7	4-Chloro-3-methylphenol	450	U	450	980	ug/Kg
91-57-6	2-Methylnaphthalene	480	U	480	980	ug/Kg
77-47-4	Hexachlorocyclopentadiene	900	UQ	900	1900	ug/Kg
88-06-2	2,4,6-Trichlorophenol	410	U	410	980	ug/Kg
95-95-4	2,4,5-Trichlorophenol	430	U	430	980	ug/Kg
92-52-4	1,1-Biphenyl	500	U	500	980	ug/Kg
91-58-7	2-Chloronaphthalene	480	U	480	980	ug/Kg
88-74-4	2-Nitroaniline	550	U	550	980	ug/Kg
131-11-3	Dimethylphthalate	470	U	470	980	ug/Kg

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Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-3(0-6)	SDG No.:	P4722
Lab Sample ID:	P4722-13	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
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
BF140280.D	5	11/07/24 09:20	11/07/24 17:32	PB164750

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	500	U	500	980	ug/Kg
606-20-2	2,6-Dinitrotoluene	480	U	480	980	ug/Kg
99-09-2	3-Nitroaniline	510	U	510	980	ug/Kg
83-32-9	Acenaphthene	470	U	470	980	ug/Kg
51-28-5	2,4-Dinitrophenol	1400	U	1400	1900	ug/Kg
100-02-7	4-Nitrophenol	670	U	670	1900	ug/Kg
132-64-9	Dibenzofuran	490	U	490	980	ug/Kg
121-14-2	2,4-Dinitrotoluene	500	U	500	980	ug/Kg
84-66-2	Diethylphthalate	460	U	460	980	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	490	U	490	980	ug/Kg
86-73-7	Fluorene	490	U	490	980	ug/Kg
100-01-6	4-Nitroaniline	620	U	620	980	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	670	U	670	1900	ug/Kg
86-30-6	n-Nitrosodiphenylamine	470	U	470	980	ug/Kg
101-55-3	4-Bromophenyl-phenylether	450	U	450	980	ug/Kg
118-74-1	Hexachlorobenzene	490	U	490	980	ug/Kg
1912-24-9	Atrazine	530	U	530	980	ug/Kg
87-86-5	Pentachlorophenol	450	U	450	1900	ug/Kg
85-01-8	Phenanthrene	2700		480	980	ug/Kg
120-12-7	Anthracene	610	J	490	980	ug/Kg
86-74-8	Carbazole	460	U	460	980	ug/Kg
84-74-2	Di-n-butylphthalate	490	U	490	980	ug/Kg
206-44-0	Fluoranthene	4600		470	980	ug/Kg
129-00-0	Pyrene	2900		480	980	ug/Kg
85-68-7	Butylbenzylphthalate	560	U	560	980	ug/Kg
91-94-1	3,3-Dichlorobenzidine	570	U	570	1900	ug/Kg
56-55-3	Benzo(a)anthracene	2700		470	980	ug/Kg
218-01-9	Chrysene	2200		460	980	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	520	U	520	980	ug/Kg
117-84-0	Di-n-octyl phthalate	630	U	630	1900	ug/Kg
205-99-2	Benzo(b)fluoranthene	3200		470	980	ug/Kg

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Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-3(0-6)	SDG No.:	P4722
Lab Sample ID:	P4722-13	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
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
BF140280.D	5	11/07/24 09:20	11/07/24 17:32	PB164750

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1100		480	980	ug/Kg
50-32-8	Benzo(a)pyrene	2400		540	980	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	990		450	980	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	470	U	470	980	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1000		460	980	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	500	U	500	980	ug/Kg
123-91-1	1,4-Dioxane	630	U	630	980	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	430	U	430	980	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	86.4		18 - 112	58%	SPK: 150
13127-88-3	Phenol-d6	87.1		15 - 107	58%	SPK: 150
4165-60-0	Nitrobenzene-d5	55.5		18 - 107	56%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.8		20 - 109	66%	SPK: 100
118-79-6	2,4,6-Tribromophenol	68.8		10 - 116	46%	SPK: 150
1718-51-0	Terphenyl-d14	46.1		10 - 105	46%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	116000	6.875			
1146-65-2	Naphthalene-d8	438000	8.157			
15067-26-2	Acenaphthene-d10	226000	9.916			
1517-22-2	Phenanthrene-d10	319000	11.404			
1719-03-5	Chrysene-d12	257000	14.051			
1520-96-3	Perylene-d12	207000	15.539			
TENTATIVE IDENTIFIED COMPOUNDS						
000613-12-7	Anthracene, 2-methyl-	440	J		11.9	ug/Kg
000949-41-7	1H-Cyclopropa[l]phenanthrene,1a,9b	680	J		11.9	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	970	J		12.0	ug/Kg
003674-66-6	Phenanthrene, 2,5-dimethyl-	390	J		12.5	ug/Kg
002381-21-7	Pyrene, 1-methyl-	430	J		13.1	ug/Kg
000238-84-6	11H-Benzo[a]fluorene	540	J		13.2	ug/Kg

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Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-3(0-6)	SDG No.:	P4722
Lab Sample ID:	P4722-13	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
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
BF140280.D	5	11/07/24 09:20	11/07/24 17:32	PB164750

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

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

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

QC SUMMARY

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

SW-846

SDG No.: P4722

Client: Walsh Construction Company II, LLC

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4722-03	WC-1(0-6)	2-Fluorophenol	150	82.4	55		18	112
		Phenol-d6	150	80.3	54		15	107
		Nitrobenzene-d5	100	55.9	56		18	107
		2-Fluorobiphenyl	100	62.5	62		20	109
		2,4,6-Tribromophenol	150	78.3	52		10	116
		Terphenyl-d14	100	60.2	60		10	105
P4722-08	WC-2(0-6)	2-Fluorophenol	150	99.8	67		18	112
		Phenol-d6	150	97.7	65		15	107
		Nitrobenzene-d5	100	66.5	66		18	107
		2-Fluorobiphenyl	100	71.3	71		20	109
		2,4,6-Tribromophenol	150	91.7	61		10	116
		Terphenyl-d14	100	58.3	58		10	105
P4722-08DL	WC-2(0-6)DL	2-Fluorophenol	150	102	68		18	112
		Phenol-d6	150	97.6	65		15	107
		Nitrobenzene-d5	100	71.4	71		18	107
		2-Fluorobiphenyl	100	81.2	81		20	109
		2,4,6-Tribromophenol	150	77.8	52		10	116
		Terphenyl-d14	100	62.7	63		10	105
P4722-13	WC-3(0-6)	2-Fluorophenol	150	86.4	58		18	112
		Phenol-d6	150	87.1	58		15	107
		Nitrobenzene-d5	100	55.5	56		18	107
		2-Fluorobiphenyl	100	65.8	66		20	109
		2,4,6-Tribromophenol	150	68.8	46		10	116
		Terphenyl-d14	100	46.1	46		10	105
P4737-01MS	TP2MS	2-Fluorophenol	150	95.0	63		18	112
		Phenol-d6	150	94.5	63		15	107
		Nitrobenzene-d5	100	63.7	64		18	107
		2-Fluorobiphenyl	100	67.6	68		20	109
		2,4,6-Tribromophenol	150	98.0	65		10	116
		Terphenyl-d14	100	57.2	57		10	105
P4737-01MSD	TP2MSD	2-Fluorophenol	150	97.9	65		18	112
		Phenol-d6	150	97.6	65		15	107
		Nitrobenzene-d5	100	65.0	65		18	107
		2-Fluorobiphenyl	100	69.2	69		20	109
		2,4,6-Tribromophenol	150	100	67		10	116
		Terphenyl-d14	100	59.5	59		10	105
PB164750BL	PB164750BL	2-Fluorophenol	150	169	113	*	18	112
		Phenol-d6	150	154	102		15	107
		Nitrobenzene-d5	100	104	104		18	107
		2-Fluorobiphenyl	100	105	105		20	109
		2,4,6-Tribromophenol	150	153	102		10	116
		Terphenyl-d14	100	105	105		10	105
PB164750BS	PB164750BS	2-Fluorophenol	150	114	76		18	112
		Phenol-d6	150	112	75		15	107
		Nitrobenzene-d5	100	76.4	76		18	107
		2-Fluorobiphenyl	100	75.1	75		20	109
		2,4,6-Tribromophenol	150	144	96		10	116
		Terphenyl-d14	100	84.5	84		10	105

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4722

Client: Walsh Construction Company II, LLC

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P4737-01MS		**Client Sample ID: TP2MS**						**DataFile: BF140300.D**			
Benzaldehyde	1100	0	220	ug/Kg	20				10	86	
Phenol	1100	0	1100	ug/Kg	100				67	126	
bis(2-Chloroethyl)ether	1100	0	1100	ug/Kg	100				54	125	
2-Chlorophenol	1100	0	1200	ug/Kg	109	*			79	107	
2-Methylphenol	1100	0	1100	ug/Kg	100				66	122	
2,2-oxybis(1-Chloropropane)	1100	0	1000	ug/Kg	91				65	110	
Acetophenone	1100	0	1100	ug/Kg	100				75	111	
3+4-Methylphenols	1100	0	1100	ug/Kg	100				66	104	
N-Nitroso-di-n-propylamine	1100	0	1000	ug/Kg	91				59	119	
Hexachloroethane	1100	0	1000	ug/Kg	91				65	117	
Nitrobenzene	1100	0	1000	ug/Kg	91				70	119	
Isophorone	1100	0	1100	ug/Kg	100				76	122	
2-Nitrophenol	1100	0	1200	ug/Kg	109				54	145	
2,4-Dimethylphenol	1100	0	1400	ug/Kg	127				44	135	
bis(2-Chloroethoxy)methane	1100	0	1100	ug/Kg	100				68	112	
2,4-Dichlorophenol	1100	0	1200	ug/Kg	109				72	118	
Naphthalene	1100	0	1100	ug/Kg	100				72	110	
4-Chloroaniline	1100	0	360	ug/Kg	33				10	91	
Hexachlorobutadiene	1100	0	1000	ug/Kg	91				66	114	
Caprolactam	1100	0	1200	ug/Kg	109				51	134	
4-Chloro-3-methylphenol	1100	0	1100	ug/Kg	100				57	132	
2-Methylnaphthalene	1100	0	1100	ug/Kg	100				59	123	
Hexachlorocyclopentadiene	2200	0	1400	ug/Kg	64				10	175	
2,4,6-Trichlorophenol	1100	0	1200	ug/Kg	109				72	117	
2,4,5-Trichlorophenol	1100	0	1200	ug/Kg	109				72	117	
1,1-Biphenyl	1100	0	1100	ug/Kg	100				75	113	
2-Chloronaphthalene	1100	0	1100	ug/Kg	100				67	118	
2-Nitroaniline	1100	0	1100	ug/Kg	100				69	127	
Dimethylphthalate	1100	0	1200	ug/Kg	109				70	113	
Acenaphthylene	1100	0	1200	ug/Kg	109				79	118	
2,6-Dinitrotoluene	1100	0	1100	ug/Kg	100				70	125	
3-Nitroaniline	1100	0	660	ug/Kg	60				30	99	
Acenaphthene	1100	0	1100	ug/Kg	100				70	121	
2,4-Dinitrophenol	2200	0	1100	ug/Kg	50				10	155	
4-Nitrophenol	2200	0	2400	ug/Kg	109				45	133	
Dibenzofuran	1100	0	1100	ug/Kg	100				72	110	
2,4-Dinitrotoluene	1100	0	1100	ug/Kg	100				55	128	
Diethylphthalate	1100	0	1100	ug/Kg	100				70	112	
4-Chlorophenyl-phenylether	1100	0	1100	ug/Kg	100				71	108	
Fluorene	1100	0	1100	ug/Kg	100				68	116	
4-Nitroaniline	1100	0	950	ug/Kg	86				55	120	
4,6-Dinitro-2-methylphenol	1100	0	710	ug/Kg	65				10	160	
N-Nitrosodiphenylamine	1100	0	1300	ug/Kg	118				73	118	
4-Bromophenyl-phenylether	1100	0	1200	ug/Kg	109				65	121	
Hexachlorobenzene	1100	0	1200	ug/Kg	109				67	118	
Atrazine	1100	0	1600	ug/Kg	145	*			79	127	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4722

Client: Walsh Construction Company II, LLC

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Pentachlorophenol	2200	0	2300	ug/Kg	105				47	128	
Phenanthrene	1100	0	1200	ug/Kg	109				52	128	
Anthracene	1100	0	1200	ug/Kg	109				62	124	
Carbazole	1100	0	1200	ug/Kg	109				59	119	
Di-n-butylphthalate	1100	0	1200	ug/Kg	109				69	118	
Fluoranthene	1100	0	1100	ug/Kg	100				44	125	
Pyrene	1100	0	990	ug/Kg	90				26	142	
Butylbenzylphthalate	1100	0	1100	ug/Kg	100				64	126	
3,3-Dichlorobenzidine	1100	0	1100	ug/Kg	100				33	116	
Benzo(a)anthracene	1100	0	1200	ug/Kg	109				71	114	
Chrysene	1100	0	1200	ug/Kg	109				57	121	
bis(2-Ethylhexyl)phthalate	1100	0	1000	ug/Kg	91				42	169	
Di-n-octyl phthalate	1100	0	1100	ug/Kg	100				23	175	
Benzo(b)fluoranthene	1100	0	1300	ug/Kg	118				67	121	
Benzo(k)fluoranthene	1100	0	1200	ug/Kg	109				57	134	
Benzo(a)pyrene	1100	0	1300	ug/Kg	118				70	142	
Indeno(1,2,3-cd)pyrene	1100	0	1100	ug/Kg	100				40	129	
Dibenz(a,h)anthracene	1100	0	1000	ug/Kg	91				43	123	
Benzo(g,h,i)perylene	1100	0	950	ug/Kg	86				24	125	
1,2,4,5-Tetrachlorobenzene	1100	0	1200	ug/Kg	109				69	124	
1,4-Dioxane	1100	0	1000	ug/Kg	91				46	112	
2,3,4,6-Tetrachlorophenol	1100	0	1200	ug/Kg	109				69	112	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4722

Client: Walsh Construction Company II, LLC

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P4737-01MSD		**Client Sample ID: TP2MSD**						**DataFile: BF140301.D**			
Benzaldehyde	1100	0	230	ug/Kg	21		5		10	86	20
Phenol	1100	0	1200	ug/Kg	109		9		67	126	20
bis(2-Chloroethyl)ether	1100	0	1100	ug/Kg	100		0		54	125	20
2-Chlorophenol	1100	0	1200	ug/Kg	109	*	0		79	107	20
2-Methylphenol	1100	0	1200	ug/Kg	109		9		66	122	20
2,2-oxybis(1-Chloropropane)	1100	0	1100	ug/Kg	100		9		65	110	20
Acetophenone	1100	0	1100	ug/Kg	100		0		75	111	20
3+4-Methylphenols	1100	0	1200	ug/Kg	109	*	9		66	104	20
N-Nitroso-di-n-propylamine	1100	0	1100	ug/Kg	100		9		59	119	20
Hexachloroethane	1100	0	1000	ug/Kg	91		0		65	117	20
Nitrobenzene	1100	0	1100	ug/Kg	100		9		70	119	20
Isophorone	1100	0	1100	ug/Kg	100		0		76	122	20
2-Nitrophenol	1100	0	1200	ug/Kg	109		0		54	145	20
2,4-Dimethylphenol	1100	0	1400	ug/Kg	127		0		44	135	20
bis(2-Chloroethoxy)methane	1100	0	1100	ug/Kg	100		0		68	112	20
2,4-Dichlorophenol	1100	0	1200	ug/Kg	109		0		72	118	20
Naphthalene	1100	0	1100	ug/Kg	100		0		72	110	20
4-Chloroaniline	1100	0	390	ug/Kg	35		6		10	91	20
Hexachlorobutadiene	1100	0	1100	ug/Kg	100		9		66	114	20
Caprolactam	1100	0	1100	ug/Kg	100		9		51	134	20
4-Chloro-3-methylphenol	1100	0	1100	ug/Kg	100		0		57	132	20
2-Methylnaphthalene	1100	0	1100	ug/Kg	100		0		59	123	20
Hexachlorocyclopentadiene	2200	0	1500	ug/Kg	68		6		10	175	20
2,4,6-Trichlorophenol	1100	0	1300	ug/Kg	118	*	8		72	117	20
2,4,5-Trichlorophenol	1100	0	1200	ug/Kg	109		0		72	117	20
1,1-Biphenyl	1100	0	1200	ug/Kg	109		9		75	113	20
2-Chloronaphthalene	1100	0	1100	ug/Kg	100		0		67	118	20
2-Nitroaniline	1100	0	1200	ug/Kg	109		9		69	127	20
Dimethylphthalate	1100	0	1200	ug/Kg	109		0		70	113	20
Acenaphthylene	1100	0	1200	ug/Kg	109		0		79	118	20
2,6-Dinitrotoluene	1100	0	1100	ug/Kg	100		0		70	125	20
3-Nitroaniline	1100	0	670	ug/Kg	61		2		30	99	20
Acenaphthene	1100	0	1200	ug/Kg	109		9		70	121	20
2,4-Dinitrophenol	2200	0	1100	ug/Kg	50		0		10	155	20
4-Nitrophenol	2200	0	2500	ug/Kg	114		4		45	133	20
Dibenzofuran	1100	0	1200	ug/Kg	109		9		72	110	20
2,4-Dinitrotoluene	1100	0	1200	ug/Kg	109		9		55	128	20
Diethylphthalate	1100	0	1200	ug/Kg	109		9		70	112	20
4-Chlorophenyl-phenylether	1100	0	1100	ug/Kg	100		0		71	108	20
Fluorene	1100	0	1100	ug/Kg	100		0		68	116	20
4-Nitroaniline	1100	0	970	ug/Kg	88		2		55	120	20
4,6-Dinitro-2-methylphenol	1100	0	800	ug/Kg	73		12		10	160	20
N-Nitrosodiphenylamine	1100	0	1300	ug/Kg	118		0		73	118	20
4-Bromophenyl-phenylether	1100	0	1300	ug/Kg	118		8		65	121	20
Hexachlorobenzene	1100	0	1200	ug/Kg	109		0		67	118	20
Atrazine	1100	0	1600	ug/Kg	145	*	0		79	127	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4722

Client: Walsh Construction Company II, LLC

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	2200	0	2400	ug/Kg	109		4		47	128	20
Phenanthrene	1100	0	1200	ug/Kg	109		0		52	128	20
Anthracene	1100	0	1200	ug/Kg	109		0		62	124	20
Carbazole	1100	0	1200	ug/Kg	109		0		59	119	20
Di-n-butylphthalate	1100	0	1200	ug/Kg	109		0		69	118	20
Fluoranthene	1100	0	1200	ug/Kg	109		9		44	125	20
Pyrene	1100	0	1000	ug/Kg	91		1		26	142	20
Butylbenzylphthalate	1100	0	1100	ug/Kg	100		0		64	126	20
3,3-Dichlorobenzidine	1100	0	1200	ug/Kg	109		9		33	116	20
Benzo(a)anthracene	1100	0	1200	ug/Kg	109		0		71	114	20
Chrysene	1100	0	1200	ug/Kg	109		0		57	121	20
bis(2-Ethylhexyl)phthalate	1100	0	1000	ug/Kg	91		0		42	169	20
Di-n-octyl phthalate	1100	0	1100	ug/Kg	100		0		23	175	20
Benzo(b)fluoranthene	1100	0	1400	ug/Kg	127	*	7		67	121	20
Benzo(k)fluoranthene	1100	0	1200	ug/Kg	109		0		57	134	20
Benzo(a)pyrene	1100	0	1300	ug/Kg	118		0		70	142	20
Indeno(1,2,3-cd)pyrene	1100	0	1100	ug/Kg	100		0		40	129	20
Dibenz(a,h)anthracene	1100	0	1100	ug/Kg	100		9		43	123	20
Benzo(g,h,i)perylene	1100	0	980	ug/Kg	89		3		24	125	20
1,2,4,5-Tetrachlorobenzene	1100	0	1200	ug/Kg	109		0		69	124	20
1,4-Dioxane	1100	0	1100	ug/Kg	100		9		46	112	20
2,3,4,6-Tetrachlorophenol	1100	0	1200	ug/Kg	109		0		69	112	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4722

Client: Walsh Construction Company II, LLC

Analytical Method: 8270E **DataFile:** BF140288.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB164750BS	Benzaldehyde	1700	240	ug/Kg	14				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	1300	ug/Kg	76				66	98	
	3+4-Methylphenols	1700	1400	ug/Kg	82				58	111	
	N-Nitroso-di-n-propylamine	1700	1400	ug/Kg	82				63	95	
	Hexachloroethane	1700	1300	ug/Kg	76				72	108	
	Nitrobenzene	1700	1200	ug/Kg	71				57	101	
	Isophorone	1700	1400	ug/Kg	82				59	99	
	2-Nitrophenol	1700	1500	ug/Kg	88				61	111	
	2,4-Dimethylphenol	1700	1700	ug/Kg	100				46	141	
	bis(2-Chloroethoxy)methane	1700	1300	ug/Kg	76				66	97	
	2,4-Dichlorophenol	1700	1400	ug/Kg	82				62	107	
	Naphthalene	1700	1300	ug/Kg	76				62	100	
	4-Chloroaniline	1700	1300	ug/Kg	76				16	100	
	Hexachlorobutadiene	1700	1300	ug/Kg	76				53	98	
	Caprolactam	1700	1300	ug/Kg	76				67	110	
	4-Chloro-3-methylphenol	1700	1400	ug/Kg	82				58	112	
	2-Methylnaphthalene	1700	1400	ug/Kg	82				60	104	
	Hexachlorocyclopentadiene	3300	5500	ug/Kg	167		*		45	165	
	2,4,6-Trichlorophenol	1700	1400	ug/Kg	82				59	102	
	2,4,5-Trichlorophenol	1700	1400	ug/Kg	82				61	98	
	1,1-Biphenyl	1700	1300	ug/Kg	76				57	103	
	2-Chloronaphthalene	1700	1300	ug/Kg	76				58	99	
	2-Nitroaniline	1700	1300	ug/Kg	76				66	101	
	Dimethylphthalate	1700	1400	ug/Kg	82				61	99	
	Acenaphthylene	1700	1400	ug/Kg	82				63	101	
	2,6-Dinitrotoluene	1700	1400	ug/Kg	82				61	104	
	3-Nitroaniline	1700	1200	ug/Kg	71				28	100	
	Acenaphthene	1700	1500	ug/Kg	88				57	104	
	2,4-Dinitrophenol	3300	3200	ug/Kg	97				37	128	
	4-Nitrophenol	3300	3100	ug/Kg	94				48	119	
	Dibenzofuran	1700	1300	ug/Kg	76				63	99	
	2,4-Dinitrotoluene	1700	1400	ug/Kg	82				60	106	
	Diethylphthalate	1700	1400	ug/Kg	82				60	101	
	4-Chlorophenyl-phenylether	1700	1300	ug/Kg	76				58	98	
	Fluorene	1700	1300	ug/Kg	76				61	101	
	4-Nitroaniline	1700	1500	ug/Kg	88				64	103	
	4,6-Dinitro-2-methylphenol	1700	1700	ug/Kg	100				76	113	
	N-Nitrosodiphenylamine	1700	1300	ug/Kg	76				71	99	
	4-Bromophenyl-phenylether	1700	1400	ug/Kg	82				66	102	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4722

Client: Walsh Construction Company II, LLC

Analytical Method: 8270E **DataFile:** BF140288.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB164750BS	Hexachlorobenzene	1700	1400	ug/Kg	82				64	98	
	Atrazine	1700	1600	ug/Kg	94				47	152	
	Pentachlorophenol	3300	3100	ug/Kg	94				67	105	
	Phenanthrene	1700	1400	ug/Kg	82				59	103	
	Anthracene	1700	1400	ug/Kg	82				61	105	
	Carbazole	1700	1400	ug/Kg	82				61	99	
	Di-n-butylphthalate	1700	1400	ug/Kg	82				58	104	
	Fluoranthene	1700	1400	ug/Kg	82				57	107	
	Pyrene	1700	1400	ug/Kg	82				59	103	
	Butylbenzylphthalate	1700	1500	ug/Kg	88				55	103	
	3,3-Dichlorobenzidine	1700	1300	ug/Kg	76				42	91	
	Benzo(a)anthracene	1700	1400	ug/Kg	82				60	102	
	Chrysene	1700	1400	ug/Kg	82				59	101	
	bis(2-Ethylhexyl)phthalate	1700	1500	ug/Kg	88				54	135	
	Di-n-octyl phthalate	1700	1500	ug/Kg	88				52	137	
	Benzo(b)fluoranthene	1700	1500	ug/Kg	88				62	109	
	Benzo(k)fluoranthene	1700	1400	ug/Kg	82				62	109	
	Benzo(a)pyrene	1700	1500	ug/Kg	88				63	103	
	Indeno(1,2,3-cd)pyrene	1700	1500	ug/Kg	88				63	101	
	Dibenz(a,h)anthracene	1700	1400	ug/Kg	82				61	112	
	Benzo(g,h,i)perylene	1700	1300	ug/Kg	76				70	108	
	1,2,4,5-Tetrachlorobenzene	1700	1300	ug/Kg	76				53	101	
	1,4-Dioxane	1700	1000	ug/Kg	59				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1600	ug/Kg	94				59	108	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164750BL

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: BE101545.D Lab Sample ID: PB164750BL

Instrument ID: BNA_E Date Extracted: 11/07/2024

Matrix: (soil/water) SOIL Date Analyzed: 11/08/2024

Level: (low/med) LOW Time Analyzed: 10:51

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
WC-3(0-6)	P4722-13	BF140280.D	11/07/2024
TP2MS	P4737-01MS	BF140300.D	11/08/2024
TP2MSD	P4737-01MSD	BF140301.D	11/08/2024
WC-2(0-6)	P4722-08	BF140303.D	11/08/2024
WC-1(0-6)	P4722-03	BF140305.D	11/08/2024
PB164750BS	PB164750BS	BF140288.D	11/08/2024

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM SAS No.: P4722 SDG NO.: P4722

Lab File ID: BE101491.D DFTPP Injection Date: 11/06/2024

Instrument ID: BNA_E DFTPP Injection Time: 11:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	14.8
68	Less than 2.0% of mass 69	0.2 (1.3) 1
69	Mass 69 relative abundance	16
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	23.5
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	3.6
275	10.0 - 60.0% of mass 198	18.3
365	Greater than 1% of mass 198	2.9
441	Present, but less than mass 443	16.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.6 (19.6) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BE101493.D	11/06/2024	13:51
SSTDICC005	SSTDICC005	BE101494.D	11/06/2024	14:27
SSTDICC010	SSTDICC010	BE101495.D	11/06/2024	15:03
SSTDICC020	SSTDICC020	BE101496.D	11/06/2024	15:39
SSTDICCC040	SSTDICCC040	BE101497.D	11/06/2024	16:14
SSTDICC050	SSTDICC050	BE101498.D	11/06/2024	16:50
SSTDICC060	SSTDICC060	BE101499.D	11/06/2024	17:26
SSTDICC080	SSTDICC080	BE101500.D	11/06/2024	18:02

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM SAS No.: P4722 SDG NO.: P4722

Lab File ID: BE101543.D DFTPP Injection Date: 11/08/2024

Instrument ID: BNA_E DFTPP Injection Time: 09:34

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	16.2
68	Less than 2.0% of mass 69	0.2 (1) 1
69	Mass 69 relative abundance	17.2
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	24.7
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	3.8
275	10.0 - 60.0% of mass 198	19.1
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	16.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.3 (19.3) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BE101544.D	11/08/2024	10:07
PB164750BL	PB164750BL	BE101545.D	11/08/2024	10:51

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM SAS No.: P4722 SDG NO.: P4722

Lab File ID: BF140230.D DFTPP Injection Date: 11/05/2024

Instrument ID: BNA_F DFTPP Injection Time: 11:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.4
68	Less than 2.0% of mass 69	0.6 (1.6) 1
69	Mass 69 relative abundance	36.6
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	45.5
197	Less than 2.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	27.8
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	15.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19 (19) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF140231.D	11/05/2024	12:26
SSTDICC005	SSTDICC005	BF140232.D	11/05/2024	12:52
SSTDICC010	SSTDICC010	BF140233.D	11/05/2024	13:18
SSTDICC020	SSTDICC020	BF140234.D	11/05/2024	13:45
SSTDICCC040	SSTDICCC040	BF140235.D	11/05/2024	14:11
SSTDICC050	SSTDICC050	BF140236.D	11/05/2024	14:37
SSTDICC060	SSTDICC060	BF140237.D	11/05/2024	15:03
SSTDICC080	SSTDICC080	BF140238.D	11/05/2024	15:30

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM SAS No.: P4722 SDG NO.: P4722

Lab File ID: BF140260.D DFTPP Injection Date: 11/07/2024

Instrument ID: BNA_F DFTPP Injection Time: 08:33

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	35.9
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	35.3
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	44.4
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	28.1
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	15.1
442	Greater than 50% of mass 198	98.8
443	15.0 - 24.0% of mass 442	19.4 (19.6) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140261.D	11/07/2024	08:59
WC-3(0-6)	P4722-13	BF140280.D	11/07/2024	17:32

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM SAS No.: P4722 SDG NO.: P4722

Lab File ID: BF140285.D DFTPP Injection Date: 11/08/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:09

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	28.4
68	Less than 2.0% of mass 69	0.5 (2) 1
69	Mass 69 relative abundance	27.7
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	36.3
197	Less than 2.0% of mass 198	0.5
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	25.2
365	Greater than 1% of mass 198	3.3
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	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:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140286.D	11/08/2024	09:35
PB164750BS	PB164750BS	BF140288.D	11/08/2024	10:28
TP2MS	P4737-01MS	BF140300.D	11/08/2024	15:51
TP2MSD	P4737-01MSD	BF140301.D	11/08/2024	16:17
WC-2(0-6)	P4722-08	BF140303.D	11/08/2024	17:10
WC-1(0-6)	P4722-03	BF140305.D	11/08/2024	18:03

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM SAS No.: P4722 SDG NO.: P4722

Lab File ID: BF140331.D DFTPP Injection Date: 11/13/2024

Instrument ID: BNA_F DFTPP Injection Time: 08:35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.9
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	38
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	48.6
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	6.4
275	10.0 - 60.0% of mass 198	28.3
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	14
442	Greater than 50% of mass 198	88.6
443	15.0 - 24.0% of mass 442	16.7 (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:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF140332.D	11/13/2024	09:01
SSTDICC005	SSTDICC005	BF140333.D	11/13/2024	09:27
SSTDICC010	SSTDICC010	BF140334.D	11/13/2024	09:53
SSTDICC020	SSTDICC020	BF140335.D	11/13/2024	10:29
SSTDICC050	SSTDICC050	BF140337.D	11/13/2024	11:21
SSTDICC060	SSTDICC060	BF140338.D	11/13/2024	11:47
SSTDICC080	SSTDICC080	BF140339.D	11/13/2024	12:13
SSTDICCC040	SSTDICCC040	BF140340.D	11/13/2024	12:48

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM SAS No.: P4722 SDG NO.: P4722

Lab File ID: BF140365.D DFTPP Injection Date: 11/14/2024

Instrument ID: BNA_F DFTPP Injection Time: 16:35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.3
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	39.7
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	48.6
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	6.6
275	10.0 - 60.0% of mass 198	28.2
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	12.8
442	Greater than 50% of mass 198	82.7
443	15.0 - 24.0% of mass 442	15.3 (18.4) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140366.D	11/14/2024	17:02
WC-2(0-6)DL	P4722-08DL	BF140377.D	11/14/2024	21:54

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/08/2024

Lab File ID: BE101544.D Time Analyzed: 10:07

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	51174	7.558	237509	10.33	179651	14.17
	UPPER LIMIT	102348	8.058	475018	10.826	359302	14.674
	LOWER LIMIT	25587	7.058	118755	9.826	89825.5	13.674
	EPA SAMPLE NO.						
01	PB164750BL	34636	7.56	145179	10.33	93474	14.17

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/08/2024

Lab File ID: BE101544.D Time Analyzed: 10:07

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	420948	16.912	472751	21.072	602462	23.357
	UPPER LIMIT	841896	17.412	945502	21.572	1204920	23.857
	LOWER LIMIT	210474	16.412	236376	20.572	301231	22.857
	EPA SAMPLE NO.						
01	PB164750BL	229842	16.91	301745	21.07	434243	23.35

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.
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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/07/2024

Lab File ID: BF140261.D Time Analyzed: 08:59

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	194677	6.881	715714	8.16	419359	9.92
	UPPER LIMIT	389354	7.381	1431430	8.663	838718	10.422
	LOWER LIMIT	97338.5	6.381	357857	7.663	209680	9.422
	EPA SAMPLE NO.						
01	WC-3(0-6)	116141	6.88	437848	8.16	226170	9.92

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/07/2024

Lab File ID: BF140261.D Time Analyzed: 08:59

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	752975	11.41	445081	14.069	403199	15.574
	UPPER LIMIT	1505950	11.91	890162	14.569	806398	16.074
	LOWER LIMIT	376488	10.91	222541	13.569	201600	15.074
	EPA SAMPLE NO.						
01	WC-3(0-6)	319073 *	11.40	257317	14.05	207144	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.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/08/2024

Lab File ID: BF140286.D Time Analyzed: 09:35

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	203786	6.881	760595	8.16	473134		9.92
	UPPER LIMIT	407572	7.381	1521190	8.663	946268		10.422
	LOWER LIMIT	101893	6.381	380298	7.663	236567		9.422
	EPA SAMPLE NO.							
01	PB164750BS	195639	6.88	765547	8.16	473510		9.92
02	WC-1(0-6)	116360	6.88	402526	8.16	201087	*	9.92
03	WC-2(0-6)	115521	6.88	425723	8.16	222785	*	9.92
04	TP2MS	122176	6.88	451887	8.16	246982		9.92
05	TP2MSD	119710	6.88	448822	8.16	245092		9.92

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/08/2024

Lab File ID: BF140286.D Time Analyzed: 09:35

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	883136	11.41	554697	14.063	449723	15.551
	UPPER LIMIT	1766270	11.91	1109390	14.563	899446	16.051
	LOWER LIMIT	441568	10.91	277349	13.563	224862	15.051
	EPA SAMPLE NO.						
01	PB164750BS	882492	11.41	554441	14.06	455207	15.56
02	WC-1(0-6)	343480 *	11.40	223839 *	14.06	183726 *	15.56
03	WC-2(0-6)	343931 *	11.40	256443 *	14.07	206534 *	15.58
04	TP2MS	380764 *	11.41	270987 *	14.06	205942 *	15.56
05	TP2MSD	382682 *	11.41	271857 *	14.06	209874 *	15.57

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/14/2024

Lab File ID: BF140366.D Time Analyzed: 17:02

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	130579	6.875	484942	8.16	265027	9.91
	UPPER LIMIT	261158	7.375	969884	8.657	530054	10.41
	LOWER LIMIT	65289.5	6.375	242471	7.657	132514	9.41
	EPA SAMPLE NO.						
01	WC-2(0-6)DL	137496	6.88	500452	8.16	231647	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.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/14/2024

Lab File ID: BF140366.D Time Analyzed: 17:02

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	494420	11.398	287889	14.062	258896	15.592
	UPPER LIMIT	988840	11.898	575778	14.562	517792	16.092
	LOWER LIMIT	247210	10.898	143945	13.562	129448	15.092
	EPA SAMPLE NO.						
01	WC-2(0-6)DL	343646	11.40	249695	14.05	178555	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.

QC SAMPLE DATA

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Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	
Client Sample ID:	PB164750BL	SDG No.:	P4722
Lab Sample ID:	PB164750BL	Matrix:	SOIL
Analytical Method:	SW8270	% 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
BE101545.D	1	11/07/24 09:20	11/08/24 10:51	PB164750

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	330	ug/Kg
108-95-2	Phenol	82.8	U	82.8	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	83.6	U	83.6	170	ug/Kg
95-57-8	2-Chlorophenol	83.4	U	83.4	170	ug/Kg
95-48-7	2-Methylphenol	80.5	U	80.5	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	90.8	U	90.8	170	ug/Kg
98-86-2	Acetophenone	86.8	U	86.8	170	ug/Kg
65794-96-9	3+4-Methylphenols	79.7	U	79.7	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	40.3	U	40.3	79.9	ug/Kg
67-72-1	Hexachloroethane	82.9	U	82.9	170	ug/Kg
98-95-3	Nitrobenzene	90.7	U	90.7	170	ug/Kg
78-59-1	Isophorone	84.5	U	84.5	170	ug/Kg
88-75-5	2-Nitrophenol	94.4	U	94.4	170	ug/Kg
105-67-9	2,4-Dimethylphenol	93.1	U	93.1	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	85.7	U	85.7	170	ug/Kg
120-83-2	2,4-Dichlorophenol	75.4	U	75.4	170	ug/Kg
91-20-3	Naphthalene	82.5	U	82.5	170	ug/Kg
106-47-8	4-Chloroaniline	82.5	U	82.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	83.2	U	83.2	170	ug/Kg
105-60-2	Caprolactam	86.7	U	86.7	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	77.4	U	77.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	82.4	U	82.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	U	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	71.3	U	71.3	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	73.9	U	73.9	170	ug/Kg
92-52-4	1,1-Biphenyl	87.3	U	87.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	83.2	U	83.2	170	ug/Kg
88-74-4	2-Nitroaniline	94.9	U	94.9	170	ug/Kg
131-11-3	Dimethylphthalate	81.6	U	81.6	170	ug/Kg

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Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	
Client Sample ID:	PB164750BL	SDG No.:	P4722
Lab Sample ID:	PB164750BL	Matrix:	SOIL
Analytical Method:	SW8270	% 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
BE101545.D	1	11/07/24 09:20	11/08/24 10:51	PB164750

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	86.4	U	86.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	83.1	U	83.1	170	ug/Kg
99-09-2	3-Nitroaniline	89.1	U	89.1	170	ug/Kg
83-32-9	Acenaphthene	81.0	U	81.0	170	ug/Kg
51-28-5	2,4-Dinitrophenol	240	U	240	330	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	330	ug/Kg
132-64-9	Dibenzofuran	84.3	U	84.3	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	86.1	U	86.1	170	ug/Kg
84-66-2	Diethylphthalate	80.0	U	80.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	85.5	U	85.5	170	ug/Kg
86-73-7	Fluorene	85.4	U	85.4	170	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	81.5	U	81.5	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	78.8	U	78.8	170	ug/Kg
118-74-1	Hexachlorobenzene	84.9	U	84.9	170	ug/Kg
1912-24-9	Atrazine	91.3	U	91.3	170	ug/Kg
87-86-5	Pentachlorophenol	77.2	U	77.2	330	ug/Kg
85-01-8	Phenanthrene	83.9	U	83.9	170	ug/Kg
120-12-7	Anthracene	84.3	U	84.3	170	ug/Kg
86-74-8	Carbazole	80.2	U	80.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	84.2	U	84.2	170	ug/Kg
206-44-0	Fluoranthene	81.6	U	81.6	170	ug/Kg
129-00-0	Pyrene	82.9	U	82.9	170	ug/Kg
85-68-7	Butylbenzylphthalate	96.7	U	96.7	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	98.5	U	98.5	330	ug/Kg
56-55-3	Benzo(a)anthracene	80.6	U	80.6	170	ug/Kg
218-01-9	Chrysene	79.4	U	79.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	90.9	U	90.9	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	81.0	U	81.0	170	ug/Kg

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Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	
Client Sample ID:	PB164750BL	SDG No.:	P4722
Lab Sample ID:	PB164750BL	Matrix:	SOIL
Analytical Method:	SW8270	% 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
BE101545.D	1	11/07/24 09:20	11/08/24 10:51	PB164750

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	82.5	U	82.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	92.9	U	92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78.0	U	78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.1	U	81.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80.0	U	80.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.7	U	86.7	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	74.6	U	74.6	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	169	*	18 - 112	113%	SPK: 150
13127-88-3	Phenol-d6	154		15 - 107	102%	SPK: 150
4165-60-0	Nitrobenzene-d5	104		18 - 107	104%	SPK: 100
321-60-8	2-Fluorobiphenyl	105		20 - 109	105%	SPK: 100
118-79-6	2,4,6-Tribromophenol	153		10 - 116	102%	SPK: 150
1718-51-0	Terphenyl-d14	105		10 - 105	105%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	34600	7.555			
1146-65-2	Naphthalene-d8	145000	10.328			
15067-26-2	Acenaphthene-d10	93500	14.171			
1517-22-2	Phenanthrene-d10	230000	16.909			
1719-03-5	Chrysene-d12	302000	21.069			
1520-96-3	Perylene-d12	434000	23.354			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	440	A		4.78	ug/Kg

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Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	
Client Sample ID:	PB164750BL	SDG No.:	P4722
Lab Sample ID:	PB164750BL	Matrix:	SOIL
Analytical Method:	SW8270	% 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
BE101545.D	1	11/07/24 09:20	11/08/24 10:51	PB164750

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

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

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

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Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	
Client Sample ID:	PB164750BS	SDG No.:	P4722
Lab Sample ID:	PB164750BS	Matrix:	SOIL
Analytical Method:	SW8270	% 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
BF140288.D	1	11/07/24 09:20	11/08/24 10:28	PB164750

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	240	J	180	330	ug/Kg
108-95-2	Phenol	1400		82.9	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1400		83.7	170	ug/Kg
95-57-8	2-Chlorophenol	1400		83.5	170	ug/Kg
95-48-7	2-Methylphenol	1400		80.6	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1300		90.9	170	ug/Kg
98-86-2	Acetophenone	1300		86.9	170	ug/Kg
65794-96-9	3+4-Methylphenols	1400		79.8	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		40.3	80.0	ug/Kg
67-72-1	Hexachloroethane	1300		83.0	170	ug/Kg
98-95-3	Nitrobenzene	1200		90.8	170	ug/Kg
78-59-1	Isophorone	1400		84.6	170	ug/Kg
88-75-5	2-Nitrophenol	1500		94.5	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1700		93.2	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1300		85.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1400		75.5	170	ug/Kg
91-20-3	Naphthalene	1300		82.6	170	ug/Kg
106-47-8	4-Chloroaniline	1300		82.6	170	ug/Kg
87-68-3	Hexachlorobutadiene	1300		83.3	170	ug/Kg
105-60-2	Caprolactam	1300		86.8	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1400		77.5	170	ug/Kg
91-57-6	2-Methylnaphthalene	1400		82.5	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	5500	E	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1400		71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1400		74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	1300		87.4	170	ug/Kg
91-58-7	2-Chloronaphthalene	1300		83.3	170	ug/Kg
88-74-4	2-Nitroaniline	1300		95.0	170	ug/Kg
131-11-3	Dimethylphthalate	1400		81.7	170	ug/Kg

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Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	
Client Sample ID:	PB164750BS	SDG No.:	P4722
Lab Sample ID:	PB164750BS	Matrix:	SOIL
Analytical Method:	SW8270	% 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
BF140288.D	1	11/07/24 09:20	11/08/24 10:28	PB164750

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1400		86.5	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1400		83.2	170	ug/Kg
99-09-2	3-Nitroaniline	1200		89.2	170	ug/Kg
83-32-9	Acenaphthene	1500		81.1	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3200	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	3100	E	120	330	ug/Kg
132-64-9	Dibenzofuran	1300		84.4	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1400		86.2	170	ug/Kg
84-66-2	Diethylphthalate	1400		80.1	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1300		85.6	170	ug/Kg
86-73-7	Fluorene	1300		85.5	170	ug/Kg
100-01-6	4-Nitroaniline	1500		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1700		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1300		81.6	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1400		78.9	170	ug/Kg
118-74-1	Hexachlorobenzene	1400		85.0	170	ug/Kg
1912-24-9	Atrazine	1600		91.4	170	ug/Kg
87-86-5	Pentachlorophenol	3100	E	77.3	330	ug/Kg
85-01-8	Phenanthrene	1400		84.0	170	ug/Kg
120-12-7	Anthracene	1400		84.4	170	ug/Kg
86-74-8	Carbazole	1400		80.3	170	ug/Kg
84-74-2	Di-n-butylphthalate	1400		84.3	170	ug/Kg
206-44-0	Fluoranthene	1400		81.7	170	ug/Kg
129-00-0	Pyrene	1400		83.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1500		96.8	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1300		98.6	330	ug/Kg
56-55-3	Benzo(a)anthracene	1400		80.7	170	ug/Kg
218-01-9	Chrysene	1400		79.5	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		91.0	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1500		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1500		81.1	170	ug/Kg

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Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	
Client Sample ID:	PB164750BS	SDG No.:	P4722
Lab Sample ID:	PB164750BS	Matrix:	SOIL
Analytical Method:	SW8270	% 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
BF140288.D	1	11/07/24 09:20	11/08/24 10:28	PB164750

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1400		82.6	170	ug/Kg
50-32-8	Benzo(a)pyrene	1500		93.0	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1500		78.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1400		81.2	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1300		80.1	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1300		86.8	170	ug/Kg
123-91-1	1,4-Dioxane	1000		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1600		74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	114		18 - 112	76%	SPK: 150
13127-88-3	Phenol-d6	112		15 - 107	75%	SPK: 150
4165-60-0	Nitrobenzene-d5	76.4		18 - 107	76%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.1		20 - 109	75%	SPK: 100
118-79-6	2,4,6-Tribromophenol	144		10 - 116	96%	SPK: 150
1718-51-0	Terphenyl-d14	84.5		10 - 105	84%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	196000	6.881			
1146-65-2	Naphthalene-d8	766000	8.157			
15067-26-2	Acenaphthene-d10	474000	9.922			
1517-22-2	Phenanthrene-d10	882000	11.41			
1719-03-5	Chrysene-d12	554000	14.063			
1520-96-3	Perylene-d12	455000	15.562			

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

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

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Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/06/24
Client Sample ID:	TP2MS	SDG No.:	P4722
Lab Sample ID:	P4737-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.4
Sample Wt/Vol:	50.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140300.D	1	11/07/24 09:20	11/08/24 15:51	PB164750

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	220		120	220	ug/Kg
108-95-2	Phenol	1100		54.4	110	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1100		54.9	110	ug/Kg
95-57-8	2-Chlorophenol	1200		54.8	110	ug/Kg
95-48-7	2-Methylphenol	1100		52.9	110	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1000		59.6	110	ug/Kg
98-86-2	Acetophenone	1100		57.0	110	ug/Kg
65794-96-9	3+4-Methylphenols	1100		52.3	220	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1000		26.4	52.5	ug/Kg
67-72-1	Hexachloroethane	1000		54.4	110	ug/Kg
98-95-3	Nitrobenzene	1000		59.5	110	ug/Kg
78-59-1	Isophorone	1100		55.5	110	ug/Kg
88-75-5	2-Nitrophenol	1200		62.0	110	ug/Kg
105-67-9	2,4-Dimethylphenol	1400		61.1	110	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1100		56.3	110	ug/Kg
120-83-2	2,4-Dichlorophenol	1200		49.5	110	ug/Kg
91-20-3	Naphthalene	1100		54.2	110	ug/Kg
106-47-8	4-Chloroaniline	360		54.2	110	ug/Kg
87-68-3	Hexachlorobutadiene	1000		54.6	110	ug/Kg
105-60-2	Caprolactam	1200		56.9	220	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1100		50.8	110	ug/Kg
91-57-6	2-Methylnaphthalene	1100		54.1	110	ug/Kg
77-47-4	Hexachlorocyclopentadiene	1400		100	220	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1200		46.8	110	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1200		48.5	110	ug/Kg
92-52-4	1,1-Biphenyl	1100		57.3	110	ug/Kg
91-58-7	2-Chloronaphthalene	1100		54.6	110	ug/Kg
88-74-4	2-Nitroaniline	1100		62.3	110	ug/Kg
131-11-3	Dimethylphthalate	1200		53.6	110	ug/Kg

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Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/06/24
Client Sample ID:	TP2MS	SDG No.:	P4722
Lab Sample ID:	P4737-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.4
Sample Wt/Vol:	50.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140300.D	1	11/07/24 09:20	11/08/24 15:51	PB164750

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1200		56.7	110	ug/Kg
606-20-2	2,6-Dinitrotoluene	1100		54.6	110	ug/Kg
99-09-2	3-Nitroaniline	660		58.5	110	ug/Kg
83-32-9	Acenaphthene	1100		53.2	110	ug/Kg
51-28-5	2,4-Dinitrophenol	1100		160	220	ug/Kg
100-02-7	4-Nitrophenol	2400	E	76.1	220	ug/Kg
132-64-9	Dibenzofuran	1100		55.3	110	ug/Kg
121-14-2	2,4-Dinitrotoluene	1100		56.5	110	ug/Kg
84-66-2	Diethylphthalate	1100		52.5	110	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1100		56.1	110	ug/Kg
86-73-7	Fluorene	1100		56.1	110	ug/Kg
100-01-6	4-Nitroaniline	950		70.2	110	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	710		76.7	220	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1300		53.5	110	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1200		51.7	110	ug/Kg
118-74-1	Hexachlorobenzene	1200		55.7	110	ug/Kg
1912-24-9	Atrazine	1600		59.9	110	ug/Kg
87-86-5	Pentachlorophenol	2300	E	50.7	220	ug/Kg
85-01-8	Phenanthrene	1200		55.1	110	ug/Kg
120-12-7	Anthracene	1200		55.3	110	ug/Kg
86-74-8	Carbazole	1200		52.7	110	ug/Kg
84-74-2	Di-n-butylphthalate	1200		55.3	110	ug/Kg
206-44-0	Fluoranthene	1100		53.6	110	ug/Kg
129-00-0	Pyrene	990		54.4	110	ug/Kg
85-68-7	Butylbenzylphthalate	1100		63.5	110	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1100		64.7	220	ug/Kg
56-55-3	Benzo(a)anthracene	1200		52.9	110	ug/Kg
218-01-9	Chrysene	1200		52.1	110	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1000		59.7	110	ug/Kg
117-84-0	Di-n-octyl phthalate	1100		72.1	220	ug/Kg
205-99-2	Benzo(b)fluoranthene	1300		53.2	110	ug/Kg

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Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/06/24
Client Sample ID:	TP2MS	SDG No.:	P4722
Lab Sample ID:	P4737-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.4
Sample Wt/Vol:	50.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140300.D	1	11/07/24 09:20	11/08/24 15:51	PB164750

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1200		54.2	110	ug/Kg
50-32-8	Benzo(a)pyrene	1300		61.0	110	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1100		51.2	110	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1000		53.3	110	ug/Kg
191-24-2	Benzo(g,h,i)perylene	950		52.5	110	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1200		56.9	110	ug/Kg
123-91-1	1,4-Dioxane	1000		72.1	110	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1200		49.0	110	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	95.0		18 - 112	63%	SPK: 150
13127-88-3	Phenol-d6	94.5		15 - 107	63%	SPK: 150
4165-60-0	Nitrobenzene-d5	63.7		18 - 107	64%	SPK: 100
321-60-8	2-Fluorobiphenyl	67.6		20 - 109	68%	SPK: 100
118-79-6	2,4,6-Tribromophenol	98.0		10 - 116	65%	SPK: 150
1718-51-0	Terphenyl-d14	57.2		10 - 105	57%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	122000	6.875			
1146-65-2	Naphthalene-d8	452000	8.157			
15067-26-2	Acenaphthene-d10	247000	9.916			
1517-22-2	Phenanthrene-d10	381000	11.41			
1719-03-5	Chrysene-d12	271000	14.063			
1520-96-3	Perylene-d12	206000	15.563			

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

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

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

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/06/24
Client Sample ID:	TP2MSD	SDG No.:	P4722
Lab Sample ID:	P4737-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.4
Sample Wt/Vol:	50.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140301.D	1	11/07/24 09:20	11/08/24 16:17	PB164750

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	230		120	220	ug/Kg
108-95-2	Phenol	1200		54.3	110	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1100		54.9	110	ug/Kg
95-57-8	2-Chlorophenol	1200		54.7	110	ug/Kg
95-48-7	2-Methylphenol	1200		52.8	110	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1100		59.6	110	ug/Kg
98-86-2	Acetophenone	1100		57.0	110	ug/Kg
65794-96-9	3+4-Methylphenols	1200		52.3	220	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1100		26.4	52.4	ug/Kg
67-72-1	Hexachloroethane	1000		54.4	110	ug/Kg
98-95-3	Nitrobenzene	1100		59.5	110	ug/Kg
78-59-1	Isophorone	1100		55.5	110	ug/Kg
88-75-5	2-Nitrophenol	1200		61.9	110	ug/Kg
105-67-9	2,4-Dimethylphenol	1400		61.1	110	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1100		56.2	110	ug/Kg
120-83-2	2,4-Dichlorophenol	1200		49.5	110	ug/Kg
91-20-3	Naphthalene	1100		54.1	110	ug/Kg
106-47-8	4-Chloroaniline	390		54.1	110	ug/Kg
87-68-3	Hexachlorobutadiene	1100		54.6	110	ug/Kg
105-60-2	Caprolactam	1100		56.9	220	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1100		50.8	110	ug/Kg
91-57-6	2-Methylnaphthalene	1100		54.1	110	ug/Kg
77-47-4	Hexachlorocyclopentadiene	1500		100	220	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1300		46.8	110	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1200		48.5	110	ug/Kg
92-52-4	1,1-Biphenyl	1200		57.3	110	ug/Kg
91-58-7	2-Chloronaphthalene	1100		54.6	110	ug/Kg
88-74-4	2-Nitroaniline	1200		62.3	110	ug/Kg
131-11-3	Dimethylphthalate	1200		53.6	110	ug/Kg

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

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/06/24
Client Sample ID:	TP2MSD	SDG No.:	P4722
Lab Sample ID:	P4737-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.4
Sample Wt/Vol:	50.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140301.D	1	11/07/24 09:20	11/08/24 16:17	PB164750

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1200		56.7	110	ug/Kg
606-20-2	2,6-Dinitrotoluene	1100		54.5	110	ug/Kg
99-09-2	3-Nitroaniline	670		58.5	110	ug/Kg
83-32-9	Acenaphthene	1200		53.2	110	ug/Kg
51-28-5	2,4-Dinitrophenol	1100		160	220	ug/Kg
100-02-7	4-Nitrophenol	2500	E	76.0	220	ug/Kg
132-64-9	Dibenzofuran	1200		55.3	110	ug/Kg
121-14-2	2,4-Dinitrotoluene	1200		56.5	110	ug/Kg
84-66-2	Diethylphthalate	1200		52.5	110	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1100		56.1	110	ug/Kg
86-73-7	Fluorene	1100		56.0	110	ug/Kg
100-01-6	4-Nitroaniline	970		70.1	110	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	800		76.7	220	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1300		53.5	110	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1300		51.7	110	ug/Kg
118-74-1	Hexachlorobenzene	1200		55.7	110	ug/Kg
1912-24-9	Atrazine	1600		59.9	110	ug/Kg
87-86-5	Pentachlorophenol	2400	E	50.7	220	ug/Kg
85-01-8	Phenanthrene	1200		55.1	110	ug/Kg
120-12-7	Anthracene	1200		55.3	110	ug/Kg
86-74-8	Carbazole	1200		52.6	110	ug/Kg
84-74-2	Di-n-butylphthalate	1200		55.3	110	ug/Kg
206-44-0	Fluoranthene	1200		53.6	110	ug/Kg
129-00-0	Pyrene	1000		54.4	110	ug/Kg
85-68-7	Butylbenzylphthalate	1100		63.5	110	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1200		64.6	220	ug/Kg
56-55-3	Benzo(a)anthracene	1200		52.9	110	ug/Kg
218-01-9	Chrysene	1200		52.1	110	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1000		59.7	110	ug/Kg
117-84-0	Di-n-octyl phthalate	1100		72.1	220	ug/Kg
205-99-2	Benzo(b)fluoranthene	1400		53.2	110	ug/Kg

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

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/06/24
Client Sample ID:	TP2MSD	SDG No.:	P4722
Lab Sample ID:	P4737-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.4
Sample Wt/Vol:	50.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140301.D	1	11/07/24 09:20	11/08/24 16:17	PB164750

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1200		54.1	110	ug/Kg
50-32-8	Benzo(a)pyrene	1300		61.0	110	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1100		51.2	110	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1100		53.2	110	ug/Kg
191-24-2	Benzo(g,h,i)perylene	980		52.5	110	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1200		56.9	110	ug/Kg
123-91-1	1,4-Dioxane	1100		72.1	110	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1200		49.0	110	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	97.9		18 - 112	65%	SPK: 150
13127-88-3	Phenol-d6	97.6		15 - 107	65%	SPK: 150
4165-60-0	Nitrobenzene-d5	65.0		18 - 107	65%	SPK: 100
321-60-8	2-Fluorobiphenyl	69.2		20 - 109	69%	SPK: 100
118-79-6	2,4,6-Tribromophenol	100		10 - 116	67%	SPK: 150
1718-51-0	Terphenyl-d14	59.5		10 - 105	59%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	120000	6.875			
1146-65-2	Naphthalene-d8	449000	8.157			
15067-26-2	Acenaphthene-d10	245000	9.916			
1517-22-2	Phenanthrene-d10	383000	11.41			
1719-03-5	Chrysene-d12	272000	14.063			
1520-96-3	Perylene-d12	210000	15.568			

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_E

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE110624.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Nov 07 00:01:20 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BE101493.D 5 =BE101494.D 10 =BE101495.D 20 =BE101496.D 40 =BE101497.D 50 =BE101498.D 60 =BE101499.D 80 =BE10150
0.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.495	0.458	0.438	0.406	0.378	0.394	0.378	0.421	10.54
3)		Pyridine		1.154	1.183	1.143	1.154	1.192	1.230	1.186	1.177	2.53
4)		n-Nitrosodimet...		0.509	0.465	0.446	0.445	0.461	0.473	0.464	0.466	4.58
5)	S	2-Fluorophenol		1.161	1.135	1.120	1.101	1.114	1.159	1.127	1.131	1.99
6)		Aniline		1.323	1.251	1.316	1.368	1.026	1.044	0.819	1.164	17.52
7)	S	Phenol-d6		1.494	1.525	1.558	1.540	1.571	1.617	1.551	1.551	2.49
8)		2-Chlorophenol		1.339	1.343	1.359	1.316	1.336	1.364	1.324	1.340	1.30
9)		Benzaldehyde		0.902	0.930	0.875	0.767	0.654	0.640	0.542	0.759	19.80
10)	C	Phenol		1.646	1.682	1.702	1.664	1.709	1.764	1.649	1.688	2.45
11)		bis(2-Chloroet...		1.362	1.474	1.392	1.165	1.446	1.447	1.497	1.397	8.03
12)		1,3-Dichlorobe...		1.573	1.526	1.491	1.424	1.410	1.437	1.379	1.463	4.74
13)	C	1,4-Dichlorobe...		1.565	1.543	1.508	1.444	1.437	1.464	1.412	1.482	3.89
14)		1,2-Dichlorobe...		1.559	1.496	1.481	1.418	1.416	1.435	1.378	1.455	4.20
15)		Benzyl Alcohol		0.791	0.861	0.910	0.919	0.958	0.977	0.926	0.906	6.94
16)		2,2'-oxybis(1-...		1.733	1.690	1.700	1.628	1.625	1.636	1.567	1.654	3.41
17)		2-Methylphenol		1.015	1.041	1.073	1.113	1.123	1.163	1.123	1.093	4.76
18)		Hexachloroethane		0.524	0.509	0.507	0.484	0.494	0.501	0.483	0.500	2.95
19)	P	n-Nitroso-di-n...	0.958	0.996	1.040	1.058	1.027	1.046	1.057	0.998	1.023	3.48
20)		3+4-Methylphenols		1.376	1.483	1.529	1.524	1.558	1.606	1.530	1.515	4.74
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.462	0.460	0.461	0.443	0.447	0.455	0.443	0.453	1.91
23)	S	Nitrobenzene-d5		0.313	0.316	0.318	0.312	0.318	0.325	0.313	0.317	1.46
24)		Nitrobenzene		0.325	0.329	0.330	0.324	0.329	0.338	0.330	0.329	1.41
25)		Isophorone		0.599	0.619	0.632	0.611	0.618	0.630	0.605	0.616	1.98
26)	C	2-Nitrophenol		0.159	0.167	0.175	0.174	0.182	0.187	0.183	0.175	5.41
27)		2,4-Dimethylph...		0.196	0.199	0.204	0.198	0.205	0.212	0.206	0.203	2.83
28)		bis(2-Chloroet...		0.376	0.383	0.386	0.371	0.375	0.381	0.369	0.377	1.65
29)	C	2,4-Dichloroph...		0.275	0.279	0.289	0.283	0.294	0.302	0.294	0.288	3.35
30)		1,2,4-Trichlor...		0.344	0.326	0.323	0.311	0.313	0.321	0.312	0.321	3.63
31)		Naphthalene		1.071	1.033	1.027	0.983	0.983	1.003	0.968	1.010	3.58
32)		Benzoic acid			0.112	0.137	0.166	0.191	0.202	0.202	0.168	22.18
33)		4-Chloroaniline		0.342	0.364	0.371	0.358	0.356	0.361	0.334	0.355	3.65
34)	C	Hexachlorobuta...		0.209	0.198	0.202	0.192	0.195	0.198	0.193	0.198	2.95
35)		Caprolactam		0.097	0.107	0.107	0.107	0.106	0.111	0.105	0.106	4.09
36)	C	4-Chloro-3-met...		0.293	0.318	0.316	0.312	0.318	0.327	0.317	0.314	3.27
37)		2-Methylnaphth...		0.744	0.733	0.733	0.706	0.705	0.715	0.684	0.717	2.93
38)		1-Methylnaphth...		0.752	0.738	0.734	0.696	0.697	0.711	0.679	0.715	3.72

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE110624.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.546	0.518	0.535	0.513	0.519	0.535	0.525	0.527	2.24
41)	P	Hexachlorocycl...	0.106	0.128	0.153	0.167	0.175	0.178	0.171	0.154	17.72
42)	S	2,4,6-Tribromo...	0.388	0.391	0.391	0.369	0.364	0.375	0.357	0.376	3.64
43)	C	2,4,6-Trichlor...	0.358	0.352	0.360	0.358	0.361	0.376	0.369	0.362	2.21
44)		2,4,5-Trichlor...	0.390	0.381	0.402	0.400	0.411	0.425	0.415	0.403	3.71
45)	S	2-Fluorobiphenyl	1.353	1.295	1.299	1.204	1.160	1.163	1.100	1.225	7.52
46)		1,1'-Biphenyl	1.451	1.416	1.424	1.336	1.344	1.366	1.320	1.380	3.66
47)		2-Chloronaphth...	1.124	1.104	1.115	1.060	1.065	1.091	1.060	1.088	2.49
48)		2-Nitroaniline	0.248	0.273	0.292	0.288	0.300	0.312	0.302	0.288	7.44
49)		Acenaphthylene	1.664	1.660	1.661	1.584	1.586	1.629	1.565	1.622	2.62
50)		Dimethylphthalate	1.500	1.479	1.478	1.389	1.368	1.403	1.352	1.424	4.22
51)		2,6-Dinitrotol...	0.316	0.330	0.336	0.324	0.327	0.338	0.329	0.329	2.23
52)	C	Acenaphthene	1.116	1.075	1.080	1.007	0.996	1.007	0.962	1.035	5.38
53)		3-Nitroaniline	0.282	0.320	0.335	0.328	0.323	0.333	0.314	0.319	5.67
54)	P	2,4-Dinitrophenol		0.139	0.178	0.194	0.208	0.220	0.217	0.193	15.82
55)		Dibenzofuran	1.799	1.736	1.724	1.615	1.591	1.629	1.568	1.666	5.20
56)	P	4-Nitrophenol	0.197	0.235	0.278	0.275	0.274	0.295	0.290	0.264	13.26
57)		2,4-Dinitrotol...	0.426	0.456	0.480	0.460	0.463	0.482	0.466	0.462	3.99
58)		Fluorene	1.490	1.475	1.458	1.363	1.328	1.347	1.272	1.391	6.03
59)		2,3,4,6-Tetrac...	0.379	0.366	0.377	0.369	0.370	0.381	0.372	0.373	1.53
60)		Diethylphthalate	1.600	1.579	1.577	1.457	1.442	1.460	1.397	1.502	5.41
61)		4-Chlorophenyl...	0.757	0.736	0.733	0.689	0.680	0.692	0.657	0.706	5.12
62)		4-Nitroaniline	0.285	0.334	0.359	0.349	0.355	0.366	0.359	0.344	8.07
63)		Azobenzene	1.283	1.269	1.289	1.196	1.183	1.203	1.153	1.225	4.44
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.084	0.104	0.117	0.123	0.131	0.136	0.135	0.119	15.97
66)	c	n-Nitrosodiphe...	0.550	0.534	0.545	0.519	0.526	0.533	0.509	0.531	2.68
67)		4-Bromophenyl-...	0.226	0.218	0.221	0.214	0.221	0.225	0.219	0.221	1.85
68)		Hexachlorobenzene	0.301	0.290	0.295	0.282	0.287	0.294	0.283	0.290	2.33
69)		Atrazine	0.202	0.187	0.151	0.171	0.121	0.135	0.130	0.157	19.70
70)	C	Pentachlorophenol	0.129	0.139	0.155	0.162	0.167	0.176	0.176	0.158	11.39
71)		Phenanthrene	1.067	1.000	1.016	0.942	0.936	0.947	0.901	0.973	5.87
72)		Anthracene	1.030	0.985	0.998	0.943	0.932	0.949	0.887	0.961	4.94
73)		Carbazole	1.030	1.003	1.001	0.940	0.924	0.947	0.899	0.963	5.00
74)		Di-n-butylphth...	1.312	1.269	1.261	1.170	1.128	1.121	1.068	1.190	7.68
75)	C	Fluoranthene	1.442	1.353	1.316	1.208	1.157	1.158	1.096	1.247	10.04
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.324	0.433	0.250	0.403	0.656	0.503	0.440	0.430	30.17
78)		Pyrene	1.201	1.158	1.199	1.130	1.125	1.117	1.036	1.138	4.95
79)	S	Terphenyl-d14	1.065	1.023	1.028	0.902	0.819	0.780	0.707	0.904	15.44
80)		Butylbenzylpht...	0.541	0.522	0.531	0.507	0.500	0.505	0.474	0.511	4.31
81)		Benzo(a)anthra...	1.334	1.258	1.258	1.170	1.138	1.118	1.040	1.188	8.47
82)		3,3'-Dichlorob...	0.466	0.474	0.480	0.469	0.478	0.467	0.439	0.468	2.92
83)		Chrysene	1.261	1.215	1.207	1.116	1.074	1.050	0.979	1.129	9.06
84)		Bis(2-ethylhex...	0.857	0.816	0.822	0.760	0.738	0.733	0.686	0.773	7.81
85)	c	Di-n-octyl pht...	1.510	1.430	1.383	1.284	1.226	1.203	1.119	1.308	10.60

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE110624.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.480	1.394	1.411	1.347	1.342	1.357	1.290	1.374	4.40
88)		Benzo(b)fluora...	1.220	1.158	1.107	1.056	1.053	1.073	1.014	1.097	6.46
89)		Benzo(k)fluora...	1.119	1.045	1.080	0.977	0.966	0.937	0.849	0.996	9.23
90)	C	Benzo(a)pyrene	1.023	0.974	0.977	0.926	0.923	0.931	0.877	0.947	5.02
91)		Dibenzo(a,h)an...	1.250	1.169	1.189	1.128	1.111	1.119	1.047	1.145	5.68
92)		Benzo(g,h,i)pe...	1.239	1.164	1.182	1.133	1.148	1.162	1.113	1.163	3.46

(#) = Out of Range

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF110524.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Nov 05 16:47:56 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF140231.D 5 =BF140232.D 10 =BF140233.D 20 =BF140234.D 40 =BF140235.D 50 =BF140236.D 60 =BF140237.D 80 =BF1402
38.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.613	0.582	0.576	0.550	0.526	0.527	0.511	0.555	6.64
3)		Pyridine		1.464	1.445	1.402	1.340	1.296	1.298	1.233	1.354	6.33
4)		n-Nitrosodimet...		0.799	0.792	0.802	0.780	0.767	0.786	0.746	0.782	2.52
5)	S	2-Fluorophenol		1.359	1.298	1.261	1.159	1.138	1.151	1.083	1.207	8.29
6)		Aniline		1.609	1.513	1.499	1.365	1.316	1.298	1.218	1.402	9.99
7)	S	Phenol-d6		1.765	1.679	1.604	1.495	1.462	1.468	1.392	1.552	8.66
8)		2-Chlorophenol		1.441	1.385	1.311	1.214	1.187	1.182	1.121	1.263	9.38
9)		Benzaldehyde		1.159	1.137	1.085	0.949	0.839	0.823	0.701	0.956	18.46
10)	C	Phenol		1.863	1.779	1.752	1.593	1.575	1.544	1.434	1.649	9.23
11)		bis(2-Chloroet...		1.417	1.354	1.285	1.209	1.201	1.201	1.100	1.252	8.57
12)		1,3-Dichlorobe...		1.690	1.605	1.555	1.413	1.387	1.388	1.322	1.480	9.22
13)	C	1,4-Dichlorobe...		1.720	1.636	1.551	1.423	1.393	1.401	1.322	1.492	9.78
14)		1,2-Dichlorobe...		1.622	1.553	1.494	1.309	1.291	1.286	1.201	1.394	11.49
15)		Benzyl Alcohol		1.282	1.280	1.258	1.182	1.147	1.154	1.075	1.197	6.59
16)		2,2'-oxybis(1-...		2.305	2.213	2.143	1.958	1.910	1.898	1.764	2.027	9.65
17)		2-Methylphenol		1.155	1.105	1.086	1.028	1.005	1.022	0.973	1.053	6.05
18)		Hexachloroethane		0.612	0.603	0.576	0.533	0.524	0.537	0.507	0.556	7.37
19)	P	n-Nitroso-di-n...	1.035	1.117	1.062	1.015	0.949	0.923	0.936	0.886	0.990	8.01
20)		3+4-Methylphenols		1.503	1.446	1.403	1.277	1.240	1.242	1.150	1.323	9.73
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.564	0.535	0.512	0.474	0.461	0.472	0.453	0.496	8.43
23)	S	Nitrobenzene-d5		0.435	0.420	0.415	0.392	0.387	0.391	0.377	0.402	5.21
24)		Nitrobenzene		0.452	0.442	0.436	0.414	0.407	0.407	0.396	0.422	5.04
25)		Isophorone		0.754	0.722	0.699	0.675	0.659	0.680	0.660	0.693	5.05
26)	C	2-Nitrophenol		0.160	0.167	0.170	0.171	0.167	0.173	0.168	0.168	2.47
27)		2,4-Dimethylph...		0.240	0.237	0.234	0.224	0.221	0.227	0.216	0.228	3.88
28)		bis(2-Chloroet...		0.459	0.441	0.428	0.400	0.390	0.399	0.383	0.415	6.93
29)	C	2,4-Dichloroph...		0.297	0.299	0.291	0.278	0.270	0.277	0.266	0.283	4.67
30)		1,2,4-Trichlor...		0.373	0.362	0.349	0.328	0.318	0.327	0.314	0.339	6.72
31)		Naphthalene		1.206	1.119	1.071	0.992	0.956	0.965	0.921	1.033	9.94
32)		Benzoic acid			0.136	0.161	0.193	0.207	0.211	0.216	0.187	17.07
33)		4-Chloroaniline		0.372	0.367	0.354	0.330	0.322	0.323	0.311	0.340	7.13
34)	C	Hexachlorobuta...		0.251	0.241	0.238	0.222	0.218	0.223	0.212	0.229	6.22
35)		Caprolactam		0.090	0.087	0.088	0.085	0.084	0.086	0.082	0.086	2.94
36)	C	4-Chloro-3-met...		0.337	0.326	0.319	0.312	0.303	0.307	0.298	0.315	4.33
37)		2-Methylnaphth...		0.772	0.743	0.702	0.644	0.626	0.627	0.605	0.674	9.64
38)		1-Methylnaphth...		0.765	0.720	0.691	0.634	0.612	0.619	0.583	0.661	10.00

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF110524.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.657	0.619	0.600	0.562	0.559	0.562	0.538	0.586	7.15
41)	P	Hexachlorocycl...	0.124	0.145	0.169	0.183	0.177	0.181	0.169	0.164	13.27
42)	S	2,4,6-Tribromo...	0.199	0.200	0.197	0.194	0.197	0.202	0.195	0.198	1.40
43)	C	2,4,6-Trichlor...	0.377	0.369	0.363	0.361	0.354	0.356	0.359	0.363	2.16
44)		2,4,5-Trichlor...	0.391	0.398	0.396	0.373	0.374	0.383	0.355	0.381	4.02
45)	S	2-Fluorobiphenyl	1.481	1.381	1.312	1.183	1.148	1.166	1.097	1.253	11.27
46)		1,1'-Biphenyl	1.663	1.590	1.521	1.376	1.342	1.347	1.281	1.446	10.02
47)		2-Chloronaphth...	1.195	1.171	1.135	1.050	1.036	1.040	0.990	1.088	7.17
48)		2-Nitroaniline	0.357	0.372	0.371	0.369	0.363	0.364	0.352	0.364	1.99
49)		Acenaphthylene	1.730	1.668	1.618	1.486	1.465	1.452	1.364	1.540	8.62
50)		Dimethylphthalate	1.363	1.310	1.262	1.191	1.182	1.180	1.135	1.232	6.65
51)		2,6-Dinitrotol...	0.302	0.297	0.299	0.286	0.286	0.284	0.272	0.290	3.57
52)	C	Acenaphthene	1.204	1.153	1.134	1.059	1.055	1.041	1.003	1.093	6.60
53)		3-Nitroaniline	0.294	0.286	0.282	0.269	0.267	0.262	0.248	0.273	5.83
54)	P	2,4-Dinitrophenol		0.071	0.101	0.128	0.135	0.139	0.142	0.120	23.23
55)		Dibenzofuran	1.773	1.683	1.603	1.467	1.424	1.421	1.324	1.528	10.59
56)	P	4-Nitrophenol	0.160	0.178	0.196	0.203	0.206	0.201	0.197	0.192	8.78
57)		2,4-Dinitrotol...	0.384	0.385	0.388	0.374	0.373	0.374	0.352	0.376	3.23
58)		Fluorene	1.446	1.345	1.267	1.154	1.127	1.115	1.059	1.216	11.55
59)		2,3,4,6-Tetrac...	0.323	0.324	0.321	0.305	0.309	0.308	0.298	0.313	3.26
60)		Diethylphthalate	1.360	1.319	1.271	1.185	1.170	1.165	1.097	1.224	7.72
61)		4-Chlorophenyl...	0.715	0.673	0.638	0.581	0.573	0.569	0.542	0.613	10.33
62)		4-Nitroaniline	0.278	0.276	0.282	0.270	0.267	0.270	0.254	0.271	3.45
63)		Azobenzene	1.460	1.373	1.319	1.219	1.200	1.190	1.122	1.269	9.38
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.080	0.100	0.110	0.112	0.116	0.113	0.105	12.60
66)	c	n-Nitrosodiphe...	0.646	0.608	0.600	0.551	0.543	0.549	0.530	0.575	7.48
67)		4-Bromophenyl-...	0.230	0.219	0.223	0.209	0.208	0.212	0.207	0.215	4.15
68)		Hexachlorobenzene	0.261	0.255	0.251	0.237	0.235	0.242	0.237	0.245	4.26
69)		Atrazine	0.204	0.189	0.155	0.156	0.127	0.138	0.133	0.157	18.48
70)	C	Pentachlorophenol	0.105	0.121	0.133	0.138	0.139	0.144	0.142	0.132	10.59
71)		Phenanthrene	1.082	1.044	1.004	0.915	0.885	0.902	0.849	0.954	9.28
72)		Anthracene	1.071	1.014	0.984	0.894	0.881	0.876	0.832	0.936	9.34
73)		Carbazole	0.973	0.919	0.901	0.822	0.805	0.809	0.759	0.855	8.93
74)		Di-n-butylphth...	1.119	1.096	1.062	0.975	0.961	0.966	0.907	1.012	7.87
75)	C	Fluoranthene	1.157	1.101	1.044	0.950	0.928	0.935	0.870	0.998	10.48
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.507	0.466	0.380	0.490	0.365	0.249	0.281	0.391	25.96
78)		Pyrene	1.851	1.733	1.728	1.590	1.572	1.596	1.490	1.651	7.49
79)	S	Terphenyl-d14	1.383	1.309	1.258	1.159	1.164	1.180	1.093	1.221	8.25
80)		Butylbenzylpht...	0.580	0.596	0.613	0.597	0.601	0.612	0.564	0.595	2.95
81)		Benzo(a)anthra...	1.386	1.344	1.345	1.232	1.232	1.254	1.193	1.284	5.71
82)		3,3'-Dichlorob...	0.387	0.409	0.410	0.417	0.406	0.401	0.392	0.403	2.57
83)		Chrysene	1.320	1.264	1.206	1.154	1.177	1.180	1.113	1.202	5.81
84)		Bis(2-ethylhex...	0.868	0.858	0.858	0.819	0.825	0.830	0.775	0.833	3.82
85)	c	Di-n-octyl pht...	1.201	1.234	1.283	1.267	1.265	1.291	1.240	1.254	2.52

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF110524.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.107	1.110	1.213	1.195	1.172	1.230	1.191	1.174	4.11
88)		Benzo(b)fluora...	1.300	1.184	1.214	1.245	1.125	1.286	1.115	1.210	6.05
89)		Benzo(k)fluora...	1.214	1.230	1.206	1.027	1.085	0.975	1.034	1.110	9.46
90)	C	Benzo(a)pyrene	1.023	0.999	1.022	0.993	0.975	1.006	0.964	0.997	2.23
91)		Dibenzo(a,h)an...	0.917	0.923	0.998	0.979	0.968	1.000	0.976	0.966	3.44
92)		Benzo(g,h,i)pe...	0.949	0.941	1.017	0.994	0.977	1.017	1.002	0.985	3.13

(#) = Out of Range

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 13 14:40:06 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF140332.D 5 =BF140333.D 10 =BF140334.D 20 =BF140335.D 40 =BF140340.D 50 =BF140337.D 60 =BF140338.D 80 =BF1403
39.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.582	0.546	0.530	0.515	0.495	0.506	0.480	0.522	6.53
3)		Pyridine		1.430	1.343	1.323	1.316	1.189	1.237	1.147	1.283	7.61
4)		n-Nitrosodimet...		0.658	0.632	0.651	0.659	0.644	0.671	0.627	0.649	2.39
5)	S	2-Fluorophenol		1.329	1.257	1.223	1.150	1.090	1.118	1.032	1.171	8.84
6)		Aniline		1.587	1.527	1.495	1.451	1.267	1.270	1.066	1.381	13.42
7)	S	Phenol-d6		1.773	1.691	1.643	1.605	1.483	1.507	1.407	1.587	8.09
8)		2-Chlorophenol		1.397	1.349	1.332	1.263	1.176	1.184	1.106	1.258	8.49
9)		Benzaldehyde		1.101	1.087	1.017	0.891	0.828	0.783		0.951	14.32
10)	C	Phenol		1.799	1.793	1.743	1.724	1.582	1.597	1.478	1.674	7.31
11)		bis(2-Chloroet...		1.359	1.294	1.306	1.263	1.227	1.249	1.179	1.268	4.60
12)		1,3-Dichlorobe...		1.585	1.475	1.454	1.374	1.291	1.317	1.221	1.388	8.98
13)	C	1,4-Dichlorobe...		1.590	1.534	1.486	1.391	1.306	1.326	1.221	1.408	9.49
14)		1,2-Dichlorobe...		1.494	1.429	1.398	1.294	1.212	1.214	1.108	1.307	10.63
15)		Benzyl Alcohol		1.172	1.193	1.199	1.211	1.100	1.108	1.020	1.143	6.10
16)		2,2'-oxybis(1-...		1.906	1.826	1.815	1.816	1.666	1.684	1.549	1.752	7.01
17)		2-Methylphenol		1.092	1.062	1.072	1.064	0.998	1.016	0.942	1.035	5.07
18)		Hexachloroethane		0.562	0.543	0.550	0.514	0.500	0.506	0.468	0.520	6.30
19)	P	n-Nitroso-di-n...	1.032	1.029	1.003	0.986	0.982	0.883	0.905	0.848	0.959	7.30
20)		3+4-Methylphenols		1.436	1.427	1.359	1.351	1.200	1.198	1.091	1.294	10.21
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.532	0.508	0.481	0.450	0.434	0.441	0.411	0.465	9.35
23)	S	Nitrobenzene-d5		0.411	0.401	0.399	0.375	0.368	0.379	0.354	0.384	5.28
24)		Nitrobenzene		0.423	0.421	0.406	0.393	0.390	0.394	0.371	0.400	4.61
25)		Isophorone		0.736	0.702	0.692	0.674	0.654	0.671	0.634	0.680	4.87
26)	C	2-Nitrophenol		0.175	0.179	0.181	0.179	0.175	0.181	0.171	0.177	1.99
27)		2,4-Dimethylph...		0.238	0.236	0.232	0.223	0.221	0.227	0.214	0.227	3.86
28)		bis(2-Chloroet...		0.461	0.442	0.430	0.407	0.398	0.404	0.379	0.417	6.80
29)	C	2,4-Dichloroph...		0.307	0.296	0.287	0.275	0.272	0.272	0.255	0.281	6.20
30)		1,2,4-Trichlor...		0.346	0.331	0.325	0.302	0.298	0.301	0.283	0.312	7.15
31)		Naphthalene		1.160	1.105	1.064	0.982	0.950	0.955	0.886	1.015	9.60
32)		Benzoic acid		0.162	0.178	0.180	0.212	0.215	0.226	0.226	0.200	13.01
33)		4-Chloroaniline		0.390	0.386	0.370	0.340	0.333	0.340	0.311	0.353	8.36
34)	C	Hexachlorobuta...		0.220	0.214	0.210	0.193	0.188	0.190	0.178	0.199	7.73
35)		Caprolactam		0.098	0.093	0.094	0.092	0.091	0.095	0.089	0.093	3.27
36)	C	4-Chloro-3-met...		0.331	0.327	0.320	0.309	0.299	0.304	0.287	0.311	5.14
37)		2-Methylnaphth...		0.751	0.706	0.683	0.632	0.610	0.607	0.565	0.651	10.01
38)		1-Methylnaphth...		0.734	0.696	0.673	0.625	0.589	0.592	0.550	0.637	10.39

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111324.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.646	0.585	0.583	0.531	0.524	0.517	0.485	0.553	9.85
41)	P	Hexachlorocycl...		0.111	0.143	0.139	0.156	0.159	0.145	0.142	12.04
42)	S	2,4,6-Tribromo...	0.220	0.211	0.207	0.193	0.191	0.189	0.182	0.199	6.88
43)	C	2,4,6-Trichlor...	0.380	0.374	0.374	0.360	0.360	0.352	0.341	0.363	3.87
44)		2,4,5-Trichlor...	0.421	0.417	0.412	0.389	0.387	0.390	0.361	0.397	5.41
45)	S	2-Fluorobiphenyl	1.524	1.396	1.351	1.172	1.125	1.110	1.031	1.244	14.50
46)		1,1'-Biphenyl	1.690	1.571	1.565	1.404	1.368	1.343	1.244	1.455	10.80
47)		2-Chloronaphth...	1.279	1.182	1.149	1.065	1.064	1.049	0.971	1.108	9.20
48)		2-Nitroaniline	0.378	0.365	0.384	0.364	0.365	0.366	0.351	0.368	2.91
49)		Acenaphthylene	1.940	1.802	1.786	1.636	1.582	1.552	1.441	1.677	10.29
50)		Dimethylphthalate	1.464	1.358	1.371	1.261	1.246	1.244	1.181	1.304	7.47
51)		2,6-Dinitrotol...	0.317	0.303	0.313	0.297	0.291	0.289	0.268	0.297	5.57
52)	C	Acenaphthene	1.259	1.204	1.192	1.096	1.091	1.079	1.006	1.133	7.78
53)		3-Nitroaniline	0.333	0.327	0.335	0.310	0.307	0.298	0.275	0.312	6.92
54)	P	2,4-Dinitrophenol		0.109	0.148	0.147	0.178	0.170	0.168	0.153	16.27
55)		Dibenzofuran	1.904	1.736	1.715	1.558	1.502	1.466	1.344	1.603	11.92
56)	P	4-Nitrophenol	0.199	0.217	0.239	0.236	0.240	0.237	0.225	0.228	6.67
57)		2,4-Dinitrotol...	0.414	0.400	0.417	0.387	0.387	0.382	0.351	0.391	5.77
58)		Fluorene	1.525	1.403	1.365	1.202	1.168	1.137	1.066	1.267	13.14
59)		2,3,4,6-Tetrac...	0.322	0.328	0.326	0.318	0.308	0.302	0.288	0.313	4.61
60)		Diethylphthalate	1.525	1.417	1.398	1.287	1.272	1.246	1.185	1.333	8.85
61)		4-Chlorophenyl...	0.739	0.688	0.669	0.604	0.583	0.567	0.528	0.625	12.01
62)		4-Nitroaniline	0.335	0.325	0.328	0.319	0.316	0.313	0.297	0.319	3.86
63)		Azobenzene	1.498	1.391	1.380	1.293	1.251	1.244	1.163	1.317	8.55
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.080	0.098	0.113	0.109	0.117	0.120	0.116	0.108	13.00
66)	c	n-Nitrosodiphe...	0.651	0.630	0.600	0.559	0.541	0.541	0.522	0.578	8.57
67)		4-Bromophenyl-...	0.227	0.210	0.209	0.194	0.191	0.188	0.180	0.200	8.14
68)		Hexachlorobenzene	0.251	0.242	0.232	0.218	0.209	0.215	0.208	0.225	7.54
69)		Atrazine	0.191	0.183	0.135	0.145	0.155	0.205	0.209	0.175	17.03
70)	C	Pentachlorophenol	0.097	0.108	0.124	0.127	0.131	0.130	0.130	0.121	10.87
71)		Phenanthrene	1.096	1.053	0.986	0.903	0.868	0.851	0.820	0.940	11.33
72)		Anthracene	1.071	1.018	0.966	0.889	0.860	0.839	0.803	0.921	10.81
73)		Carbazole	1.053	1.009	0.963	0.876	0.846	0.834	0.783	0.909	11.02
74)		Di-n-butylphth...	1.214	1.177	1.150	1.074	1.036	1.023	0.964	1.091	8.37
75)	C	Fluoranthene	1.256	1.201	1.141	1.018	0.962	0.933	0.867	1.054	13.92
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.634	0.684	0.653	0.742	0.953	0.939	0.768	18.64
78)		Pyrene	1.748	1.706	1.643	1.679	1.728	1.800	1.672	1.711	3.08
79)	S	Terphenyl-d14	1.226	1.185	1.108	1.123	1.139	1.190	1.093	1.152	4.26
80)		Butylbenzylpht...	0.640	0.638	0.654	0.690	0.670	0.681	0.628	0.657	3.56
81)		Benzo(a)anthra...	1.451	1.418	1.351	1.263	1.229	1.294	1.195	1.314	7.31
82)		3,3'-Dichlorob...	0.438	0.431	0.433	0.402	0.406	0.416	0.399	0.418	3.79
83)		Chrysene	1.394	1.241	1.235	1.168	1.137	1.123	1.099	1.199	8.44
84)		Bis(2-ethylhex...	0.886	0.890	0.897	0.927	0.858	0.869	0.813	0.877	4.07
85)	c	Di-n-octyl pht...	1.231	1.217	1.270	1.290	1.187	1.241	1.212	1.235	2.86

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111324.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.116	1.150	1.138	1.258	1.316	1.354	1.317	1.235	8.02
88)		Benzo(b)fluora...	1.405	1.352	1.471	1.263	1.235	1.233	1.199	1.308	7.82
89)		Benzo(k)fluora...	1.286	1.241	1.120	1.060	0.952	0.935	0.888	1.069	14.47
90)	C	Benzo(a)pyrene	1.100	1.053	1.054	1.005	0.970	0.980	0.948	1.016	5.40
91)		Dibenzo(a,h)an...	0.941	0.952	0.944	1.039	1.074	1.121	1.077	1.021	7.30
92)		Benzo(g,h,i)pe...	0.941	0.963	0.954	1.063	1.122	1.146	1.120	1.044	8.55

(#) = Out of Range

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: BNA_E Calibration Date/Time: 11/08/2024 10:07

Lab File ID: BE101544.D Init. Calib. Date(s): 11/06/2024 11/06/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:51 18:02

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.131	1.156		2.2	
Benzaldehyde	0.759	0.657		-13.4	
Phenol-d6	1.551	1.606		3.5	
Phenol	1.688	1.758		4.1	20.0
bis(2-Chloroethyl)ether	1.397	1.613		15.5	
2-Chlorophenol	1.340	1.363		1.7	
2-Methylphenol	1.093	1.113		1.8	
2,2-oxybis(1-Chloropropane)	1.654	1.702		2.9	
Acetophenone	0.453	0.453		0.0	
3+4-Methylphenols	1.515	1.581		4.4	
n-Nitroso-di-n-propylamine	1.023	1.081	0.050	5.7	
Nitrobenzene-d5	0.317	0.329		3.8	
Hexachloroethane	0.500	0.497		-0.6	
Nitrobenzene	0.329	0.344		4.6	
Isophorone	0.616	0.644		4.5	
2-Nitrophenol	0.175	0.181		3.4	20.0
2,4-Dimethylphenol	0.203	0.203		0.0	
bis(2-Chloroethoxy)methane	0.377	0.379		0.5	
2,4-Dichlorophenol	0.288	0.295		2.4	20.0
Naphthalene	1.010	1.009		-0.1	
4-Chloroaniline	0.355	0.376		5.9	
Hexachlorobutadiene	0.198	0.190		-4.0	20.0
Caprolactam	0.106	0.121		14.2	
4-Chloro-3-methylphenol	0.314	0.342		8.9	20.0
2-Methylnaphthalene	0.717	0.735		2.5	
Hexachlorocyclopentadiene	0.154	0.152	0.050	-1.3	
2,4,6-Trichlorophenol	0.362	0.358		-1.1	20.0
2-Fluorobiphenyl	1.225	1.192		-2.7	
2,4,5-Trichlorophenol	0.403	0.404		0.2	
1,1-Biphenyl	1.380	1.327		-3.8	
2-Chloronaphthalene	1.088	1.047		-3.8	
2-Nitroaniline	0.288	0.319		10.8	
Dimethylphthalate	1.424	1.446		1.5	
Acenaphthylene	1.622	1.637		0.9	
2,6-Dinitrotoluene	0.329	0.343		4.3	
3-Nitroaniline	0.319	0.354		11.0	
Acenaphthene	1.035	1.044		0.9	20.0
2,4-Dinitrophenol	0.193	0.221	0.050	14.5	
4-Nitrophenol	0.264	0.296	0.050	12.1	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: BNA_E Calibration Date/Time: 11/08/2024 10:07

Lab File ID: BE101544.D Init. Calib. Date(s): 11/06/2024 11/06/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:51 18:02

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.666	1.672		0.4	
2,4-Dinitrotoluene	0.462	0.497		7.6	
Diethylphthalate	1.502	1.558		3.7	
4-Chlorophenyl-phenylether	0.706	0.710		0.6	
Fluorene	1.391	1.437		3.3	
4-Nitroaniline	0.344	0.392		14.0	
4,6-Dinitro-2-methylphenol	0.119	0.132		10.9	
n-Nitrosodiphenylamine	0.531	0.536		0.9	20.0
2,4,6-Tribromophenol	0.376	0.380		1.1	
4-Bromophenyl-phenylether	0.221	0.214		-3.2	
Hexachlorobenzene	0.290	0.292		0.7	
Atrazine	0.157	0.168		7.0	
Pentachlorophenol	0.158	0.168		6.3	20.0
Phenanthrene	0.973	0.978		0.5	
Anthracene	0.961	0.978		1.8	
Carbazole	0.963	0.979		1.7	
Di-n-butylphthalate	1.190	1.202		1.0	
Fluoranthene	1.247	1.249		0.2	20.0
Pyrene	1.138	1.173		3.1	
Terphenyl-d14	0.904	0.945		4.5	
Butylbenzylphthalate	0.511	0.521		2.0	
3,3-Dichlorobenzidine	0.468	0.476		1.7	
Benzo(a)anthracene	1.188	1.217		2.4	
Chrysene	1.129	1.139		0.9	
Bis(2-ethylhexyl)phthalate	0.773	0.763		-1.3	
Di-n-octyl phthalate	1.308	1.299		-0.7	20.0
Benzo(b)fluoranthene	1.097	1.076		-1.9	
Benzo(k)fluoranthene	0.996	1.042		4.6	
Benzo(a)pyrene	0.947	0.958		1.2	20.0
Indeno(1,2,3-cd)pyrene	1.374	1.383		0.7	
Dibenzo(a,h)anthracene	1.145	1.159		1.2	
Benzo(g,h,i)perylene	1.163	1.145		-1.5	
1,2,4,5-Tetrachlorobenzene	0.527	0.489		-7.2	
1,4-Dioxane	0.421	0.429		1.9	20.0
2,3,4,6-Tetrachlorophenol	0.373	0.380		1.9	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: BNA_F Calibration Date/Time: 11/07/2024 08:59

Lab File ID: BF140261.D Init. Calib. Date(s): 11/05/2024 11/05/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:26 15:30

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.207	1.165		-3.5	
Benzaldehyde	0.956	0.810		-15.3	
Phenol-d6	1.552	1.463		-5.7	
Phenol	1.649	1.561		-5.3	20.0
bis(2-Chloroethyl)ether	1.252	1.210		-3.4	
2-Chlorophenol	1.263	1.231		-2.5	
2-Methylphenol	1.053	1.018		-3.3	
2,2-oxybis(1-Chloropropane)	2.027	1.887		-6.9	
Acetophenone	0.496	0.470		-5.2	
3+4-Methylphenols	1.323	1.261		-4.7	
n-Nitroso-di-n-propylamine	0.990	0.931	0.050	-6.0	
Nitrobenzene-d5	0.402	0.382		-5.0	
Hexachloroethane	0.556	0.541		-2.7	
Nitrobenzene	0.422	0.399		-5.4	
Isophorone	0.693	0.666		-3.9	
2-Nitrophenol	0.168	0.177		5.4	20.0
2,4-Dimethylphenol	0.228	0.227		-0.4	
bis(2-Chloroethoxy)methane	0.415	0.403		-2.9	
2,4-Dichlorophenol	0.283	0.288		1.8	20.0
Naphthalene	1.033	0.994		-3.8	
4-Chloroaniline	0.340	0.337		-0.9	
Hexachlorobutadiene	0.229	0.225		-1.7	20.0
Caprolactam	0.086	0.089		3.5	
4-Chloro-3-methylphenol	0.315	0.313		-0.6	20.0
2-Methylnaphthalene	0.674	0.656		-2.7	
Hexachlorocyclopentadiene	0.164	0.179	0.050	9.1	
2,4,6-Trichlorophenol	0.363	0.369		1.7	20.0
2-Fluorobiphenyl	1.253	1.179		-5.8	
2,4,5-Trichlorophenol	0.381	0.390		2.4	
1,1-Biphenyl	1.446	1.384		-4.3	
2-Chloronaphthalene	1.088	1.060		-2.6	
2-Nitroaniline	0.364	0.353		-3.0	
Dimethylphthalate	1.232	1.219		-1.1	
Acenaphthylene	1.540	1.494		-3.0	
2,6-Dinitrotoluene	0.290	0.293		1.0	
3-Nitroaniline	0.273	0.272		-0.4	
Acenaphthene	1.093	1.068		-2.3	20.0
2,4-Dinitrophenol	0.120	0.130	0.050	8.3	
4-Nitrophenol	0.192	0.199	0.050	3.6	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: BNA_F Calibration Date/Time: 11/07/2024 08:59

Lab File ID: BF140261.D Init. Calib. Date(s): 11/05/2024 11/05/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:26 15:30

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.528	1.498		-2.0	
2,4-Dinitrotoluene	0.376	0.389		3.5	
Diethylphthalate	1.224	1.230		0.5	
4-Chlorophenyl-phenylether	0.613	0.600		-2.1	
Fluorene	1.216	1.168		-3.9	
4-Nitroaniline	0.271	0.275		1.5	
4,6-Dinitro-2-methylphenol	0.105	0.111		5.7	
n-Nitrosodiphenylamine	0.575	0.555		-3.5	20.0
2,4,6-Tribromophenol	0.198	0.209		5.6	
4-Bromophenyl-phenylether	0.215	0.217		0.9	
Hexachlorobenzene	0.245	0.246		0.4	
Atrazine	0.157	0.164		4.5	
Pentachlorophenol	0.132	0.145		9.8	20.0
Phenanthrene	0.954	0.929		-2.6	
Anthracene	0.936	0.894		-4.5	
Carbazole	0.855	0.830		-2.9	
Di-n-butylphthalate	1.012	1.017		0.5	
Fluoranthene	0.998	0.976		-2.2	20.0
Pyrene	1.651	1.654		0.2	
Terphenyl-d14	1.221	1.218		-0.2	
Butylbenzylphthalate	0.595	0.651		9.4	
3,3-Dichlorobenzidine	0.403	0.401		-0.5	
Benzo(a)anthracene	1.284	1.263		-1.6	
Chrysene	1.202	1.168		-2.8	
Bis(2-ethylhexyl)phthalate	0.833	0.864		3.7	
Di-n-octyl phthalate	1.254	1.310		4.5	20.0
Benzo(b)fluoranthene	1.210	1.159		-4.2	
Benzo(k)fluoranthene	1.110	1.122		1.1	
Benzo(a)pyrene	0.997	0.992		-0.5	20.0
Indeno(1,2,3-cd)pyrene	1.174	1.165		-0.8	
Dibenzo(a,h)anthracene	0.966	0.952		-1.4	
Benzo(g,h,i)perylene	0.985	0.966		-1.9	
1,2,4,5-Tetrachlorobenzene	0.586	0.573		-2.2	
1,4-Dioxane	0.555	0.516		-7.0	20.0
2,3,4,6-Tetrachlorophenol	0.313	0.327		4.5	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: BNA_F Calibration Date/Time: 11/08/2024 09:35

Lab File ID: BF140286.D Init. Calib. Date(s): 11/05/2024 11/05/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:26 15:30

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.207	1.151		-4.6	
Benzaldehyde	0.956	0.854		-10.7	
Phenol-d6	1.552	1.455		-6.3	
Phenol	1.649	1.581		-4.1	20.0
bis(2-Chloroethyl)ether	1.252	1.205		-3.8	
2-Chlorophenol	1.263	1.225		-3.0	
2-Methylphenol	1.053	1.025		-2.7	
2,2-oxybis(1-Chloropropane)	2.027	1.804		-11.0	
Acetophenone	0.496	0.461		-7.1	
3+4-Methylphenols	1.323	1.267		-4.2	
n-Nitroso-di-n-propylamine	0.990	0.931	0.050	-6.0	
Nitrobenzene-d5	0.402	0.378		-6.0	
Hexachloroethane	0.556	0.530		-4.7	
Nitrobenzene	0.422	0.398		-5.7	
Isophorone	0.693	0.668		-3.6	
2-Nitrophenol	0.168	0.176		4.8	20.0
2,4-Dimethylphenol	0.228	0.230		0.9	
bis(2-Chloroethoxy)methane	0.415	0.405		-2.4	
2,4-Dichlorophenol	0.283	0.285		0.7	20.0
Naphthalene	1.033	0.978		-5.3	
4-Chloroaniline	0.340	0.343		0.9	
Hexachlorobutadiene	0.229	0.225		-1.7	20.0
Caprolactam	0.086	0.095		10.5	
4-Chloro-3-methylphenol	0.315	0.322		2.2	20.0
2-Methylnaphthalene	0.674	0.666		-1.2	
Hexachlorocyclopentadiene	0.164	0.175	0.050	6.7	
2,4,6-Trichlorophenol	0.363	0.362		-0.3	20.0
2-Fluorobiphenyl	1.253	1.125		-10.1	
2,4,5-Trichlorophenol	0.381	0.388		1.8	
1,1-Biphenyl	1.446	1.339		-7.4	
2-Chloronaphthalene	1.088	1.015		-6.7	
2-Nitroaniline	0.364	0.344		-5.5	
Dimethylphthalate	1.232	1.215		-1.4	
Acenaphthylene	1.540	1.478		-4.0	
2,6-Dinitrotoluene	0.290	0.297		2.4	
3-Nitroaniline	0.273	0.281		2.9	
Acenaphthene	1.093	1.061		-2.9	20.0
2,4-Dinitrophenol	0.120	0.153	0.050	27.5	
4-Nitrophenol	0.192	0.219	0.050	14.1	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: BNA_F Calibration Date/Time: 11/08/2024 09:35

Lab File ID: BF140286.D Init. Calib. Date(s): 11/05/2024 11/05/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:26 15:30

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.528	1.462		-4.3	
2,4-Dinitrotoluene	0.376	0.395		5.1	
Diethylphthalate	1.224	1.226		0.2	
4-Chlorophenyl-phenylether	0.613	0.600		-2.1	
Fluorene	1.216	1.159		-4.7	
4-Nitroaniline	0.271	0.289		6.6	
4,6-Dinitro-2-methylphenol	0.105	0.122		16.2	
n-Nitrosodiphenylamine	0.575	0.536		-6.8	20.0
2,4,6-Tribromophenol	0.198	0.223		12.6	
4-Bromophenyl-phenylether	0.215	0.216		0.5	
Hexachlorobenzene	0.245	0.245		0.0	
Atrazine	0.157	0.167		6.4	
Pentachlorophenol	0.132	0.154		16.7	20.0
Phenanthrene	0.954	0.897		-6.0	
Anthracene	0.936	0.882		-5.8	
Carbazole	0.855	0.825		-3.5	
Di-n-butylphthalate	1.012	1.018		0.6	
Fluoranthene	0.998	0.986		-1.2	20.0
Pyrene	1.651	1.589		-3.8	
Terphenyl-d14	1.221	1.161		-4.9	
Butylbenzylphthalate	0.595	0.628		5.5	
3,3-Dichlorobenzidine	0.403	0.404		0.2	
Benzo(a)anthracene	1.284	1.258		-2.0	
Chrysene	1.202	1.131		-5.9	
Bis(2-ethylhexyl)phthalate	0.833	0.852		2.3	
Di-n-octyl phthalate	1.254	1.261		0.6	20.0
Benzo(b)fluoranthene	1.210	1.184		-2.1	
Benzo(k)fluoranthene	1.110	1.151		3.7	
Benzo(a)pyrene	0.997	0.994		-0.3	20.0
Indeno(1,2,3-cd)pyrene	1.174	1.140		-2.9	
Dibenzo(a,h)anthracene	0.966	0.930		-3.7	
Benzo(g,h,i)perylene	0.985	0.945		-4.1	
1,2,4,5-Tetrachlorobenzene	0.586	0.547		-6.7	
1,4-Dioxane	0.555	0.510		-8.1	20.0
2,3,4,6-Tetrachlorophenol	0.313	0.333		6.4	

All other compounds must meet a minimum RRF of 0.010.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: BNA_F Calibration Date/Time: 11/14/2024 17:02

Lab File ID: BF140366.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.171	1.188		1.5	
Benzaldehyde	0.951	0.861		-9.5	
Phenol-d6	1.587	1.578		-0.6	
Phenol	1.674	1.678		0.2	20.0
bis(2-Chloroethyl)ether	1.268	1.243		-2.0	
2-Chlorophenol	1.258	1.256		-0.2	
2-Methylphenol	1.035	1.033		-0.2	
2,2-oxybis(1-Chloropropane)	1.752	1.678		-4.2	
Acetophenone	0.465	0.463		-0.4	
3+4-Methylphenols	1.295	1.288		-0.5	
n-Nitroso-di-n-propylamine	0.959	0.909	0.050	-5.2	
Nitrobenzene-d5	0.384	0.381		-0.8	
Hexachloroethane	0.520	0.504		-3.1	
Nitrobenzene	0.400	0.401		0.3	
Isophorone	0.680	0.661		-2.8	
2-Nitrophenol	0.177	0.178		0.6	20.0
2,4-Dimethylphenol	0.227	0.227		0.0	
bis(2-Chloroethoxy)methane	0.417	0.404		-3.1	
2,4-Dichlorophenol	0.281	0.281		0.0	20.0
Naphthalene	1.015	1.009		-0.6	
4-Chloroaniline	0.353	0.327		-7.4	
Hexachlorobutadiene	0.199	0.195		-2.0	20.0
Caprolactam	0.093	0.094		1.1	
4-Chloro-3-methylphenol	0.311	0.311		0.0	20.0
2-Methylnaphthalene	0.651	0.642		-1.4	
Hexachlorocyclopentadiene	0.142	0.133	0.050	-6.3	
2,4,6-Trichlorophenol	0.363	0.368		1.4	20.0
2-Fluorobiphenyl	1.244	1.231		-1.0	
2,4,5-Trichlorophenol	0.397	0.409		3.0	
1,1-Biphenyl	1.455	1.467		0.8	
2-Chloronaphthalene	1.108	1.111		0.3	
2-Nitroaniline	0.368	0.374		1.6	
Dimethylphthalate	1.304	1.272		-2.5	
Acenaphthylene	1.677	1.672		-0.3	
2,6-Dinitrotoluene	0.297	0.303		2.0	
3-Nitroaniline	0.312	0.313		0.3	
Acenaphthene	1.133	1.135		0.2	20.0
2,4-Dinitrophenol	0.153	0.154	0.050	0.7	
4-Nitrophenol	0.228	0.236	0.050	3.5	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: BNA_F Calibration Date/Time: 11/14/2024 17:02

Lab File ID: BF140366.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.603	1.616		0.8	
2,4-Dinitrotoluene	0.391	0.397		1.5	
Diethylphthalate	1.333	1.281		-3.9	
4-Chlorophenyl-phenylether	0.625	0.604		-3.4	
Fluorene	1.267	1.256		-0.9	
4-Nitroaniline	0.319	0.328		2.8	
4,6-Dinitro-2-methylphenol	0.108	0.114		5.6	
n-Nitrosodiphenylamine	0.578	0.569		-1.6	20.0
2,4,6-Tribromophenol	0.199	0.200		0.5	
4-Bromophenyl-phenylether	0.200	0.193		-3.5	
Hexachlorobenzene	0.225	0.223		-0.9	
Atrazine	0.175	0.164		-6.3	
Pentachlorophenol	0.121	0.124		2.5	20.0
Phenanthrene	0.940	0.926		-1.5	
Anthracene	0.921	0.905		-1.7	
Carbazole	0.909	0.912		0.3	
Di-n-butylphthalate	1.091	1.021		-6.4	
Fluoranthene	1.054	1.029		-2.4	20.0
Pyrene	1.711	1.783		4.2	
Terphenyl-d14	1.152	1.148		-0.3	
Butylbenzylphthalate	0.657	0.642		-2.3	
3,3-Dichlorobenzidine	0.418	0.409		-2.2	
Benzo(a)anthracene	1.314	1.308		-0.5	
Chrysene	1.199	1.156		-3.6	
Bis(2-ethylhexyl)phthalate	0.877	0.791		-9.8	
Di-n-octyl phthalate	1.235	1.083		-12.3	20.0
Benzo(b)fluoranthene	1.308	1.240		-5.2	
Benzo(k)fluoranthene	1.069	1.043		-2.4	
Benzo(a)pyrene	1.016	1.000		-1.6	20.0
Indeno(1,2,3-cd)pyrene	1.235	1.295		4.9	
Dibenzo(a,h)anthracene	1.021	1.058		3.6	
Benzo(g,h,i)perylene	1.044	1.108		6.1	
1,2,4,5-Tetrachlorobenzene	0.553	0.555		0.4	
1,4-Dioxane	0.522	0.547		4.8	20.0
2,3,4,6-Tetrachlorophenol	0.313	0.320		2.2	

All other compounds must meet a minimum RRF of 0.010.