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

LAB CHRONICLE

OrderID:	P4495	**OrderDate:**	10/23/2024 10:29:00 AM
Client:	Chemtech Consulting Group	**Project:**	NJ Soil PT
Contact:	QA Officer	**Location:**	QA Office,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4495-11	**PT-BNA-SOIL**	**SOIL**			**10/21/24**			**10/23/24**
			SVOCMS Group1	8270E		10/25/24	11/13/24	
			SVOCMS Group2	8270-Modified		10/25/24	11/14/24	
P4495-11DL	**PT-BNA-SOILDL**	**SOIL**			**10/21/24**			**10/23/24**
			SVOCMS Group1	8270E		10/25/24	11/13/24	
			SVOCMS Group2	8270-Modified		10/25/24	11/14/24	
P4495-12	**PT-TRIAZINE-SOIL**	**SOIL**			**10/21/24**			**10/23/24**
			SVOCMS Group4	8270E		10/25/24	10/29/24	
P4495-13	**PT-PAH-SOIL**	**SOIL**			**10/21/24**			**10/23/24**
			SVOCMS Group3	8270-Modified		10/25/24	11/14/24	
P4495-13DL	**PT-PAH-SOILDL**	**SOIL**			**10/21/24**			**10/23/24**
			SVOCMS Group3	8270-Modified		10/25/24	11/14/24	

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Hit Summary Sheet
SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**PT-BNA-SOIL**							
P4495-11	PT-BNA-SOIL	SOIL	bis(2-Chloroethyl)ether	5,500.000	E	83.5	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	2-Chlorophenol	2,100.000		83.3	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	1,2-Dichlorobenzene	2,600.000		84.4	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	1,3-Dichlorobenzene	3,800.000	E	85.8	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	1,4-Dichlorobenzene	4,400.000	E	86.3	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	2,2-oxybis(1-Chloropropane)	3,000.000	E	90.7	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	n-Nitroso-di-n-propylamine	5,900.000	E	40.2	79.8	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Hexachloroethane	3,400.000	E	82.8	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Nitrobenzene	5,800.000	E	90.6	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Isophorone	4,400.000	E	84.4	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	2-Nitrophenol	2,300.000		94.3	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	bis(2-Chloroethoxy)methane	4,000.000	E	85.6	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	1,2,4-Trichlorobenzene	4,600.000	E	85.2	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	2-Methylnaphthalene	3,200.000	E	82.3	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	2,4,6-Trichlorophenol	3,800.000	E	71.2	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	2-Chloronaphthalene	2,300.000		83.1	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Dimethylphthalate	2,300.000		81.5	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Acenaphthylene	2,800.000	E	86.3	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Acenaphthene	2,400.000		80.9	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	4-Nitrophenol	2,800.000	E	120	330	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Dibenzofuran	4,000.000	E	84.2	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Fluorene	3,600.000	E	85.3	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	4-Bromophenyl-phenylether	3,300.000	E	78.7	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Hexachlorobenzene	2,600.000		84.8	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Pentachlorophenol	3,200.000	E	77.1	330	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Phenanthrene	2,100.000		83.8	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Anthracene	2,600.000		84.2	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Carbazole	3,200.000	E	80.1	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Di-n-butylphthalate	3,100.000	E	84.1	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Fluoranthene	1,600.000		81.5	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Butylbenzylphthalate	4,000.000	E	96.6	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Benzo(a)anthracene	2,100.000		80.5	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Bis(2-ethylhexyl)phthalate	1,900.000		90.8	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Indeno(1,2,3-cd)pyrene	1,500.000		77.9	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	2,3,4,6-Tetrachlorophenol	2,300.000		74.5	170	ug/Kg
			Total Svoc :	**112,500.00**				
			Total Concentration:	**112,500.00**				

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Hit Summary Sheet
SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**PT-BNA-SOILDL**							
P4495-11DL	PT-BNA-SOILDL	SOIL	bis(2-Chloroethyl)ether	5,600.000	D	420	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	2-Chlorophenol	1,900.000	D	420	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	1,2-Dichlorobenzene	2,600.000	D	420	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	1,3-Dichlorobenzene	3,900.000	D	430	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	1,4-Dichlorobenzene	4,700.000	D	430	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	2,2-oxybis(1-Chloropropane)	2,800.000	D	450	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	n-Nitroso-di-n-propylamine	5,700.000	D	200	400	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Hexachloroethane	3,300.000	D	410	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Nitrobenzene	5,700.000	D	450	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Isophorone	4,300.000	D	420	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	2-Nitrophenol	2,100.000	D	470	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	bis(2-Chloroethoxy)methane	3,800.000	D	430	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	1,2,4-Trichlorobenzene	4,700.000	D	430	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	2-Methylnaphthalene	3,400.000	D	410	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	2,4,6-Trichlorophenol	3,800.000	D	360	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	2-Chloronaphthalene	2,300.000	D	420	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Dimethylphthalate	2,400.000	D	410	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Acenaphthylene	2,900.000	D	430	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Acenaphthene	2,400.000	D	400	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	4-Nitrophenol	2,100.000	D	580	1600	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Dibenzofuran	4,500.000	D	420	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Fluorene	3,900.000	D	430	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	4-Bromophenyl-phenylether	3,500.000	D	390	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Hexachlorobenzene	2,500.000	D	420	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Pentachlorophenol	2,400.000	D	390	1600	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Phenanthrene	2,100.000	D	420	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Anthracene	2,700.000	D	420	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Carbazole	3,300.000	D	400	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Di-n-butylphthalate	3,300.000	D	420	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Fluoranthene	1,600.000	D	410	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Butylbenzylphthalate	3,800.000	D	480	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Benzo(a)anthracene	2,000.000	D	400	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Bis(2-ethylhexyl)phthalate	1,900.000	D	450	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Indeno(1,2,3-cd)pyrene	1,200.000	D	390	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	2,3,4,6-Tetrachlorophenol	2,100.000	D	370	850	ug/Kg
			Total Svoc :	**111,200.00**				
			Total Concentration:	**111,200.00**				

SAMPLE DATA

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-BNA-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140343.D	1	10/25/24 09:50	11/13/24 15:25	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
62-75-9	n-Nitrosodimethylamine	86.6	U	86.6	330	ug/Kg
110-86-1	Pyridine	79.7	U	79.7	170	ug/Kg
100-52-7	Benzaldehyde	180	U	180	330	ug/Kg
62-53-3	Aniline	96.7	U	96.7	170	ug/Kg
108-95-2	Phenol	82.7	U	82.7	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	5500	E	83.5	170	ug/Kg
95-57-8	2-Chlorophenol	2100		83.3	170	ug/Kg
95-50-1	1,2-Dichlorobenzene	2600		84.4	170	ug/Kg
541-73-1	1,3-Dichlorobenzene	3800	E	85.8	170	ug/Kg
106-46-7	1,4-Dichlorobenzene	4400	E	86.3	170	ug/Kg
100-51-6	Benzyl Alcohol	82.8	U	82.8	330	ug/Kg
95-48-7	2-Methylphenol	80.4	U	80.4	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	3000	E	90.7	170	ug/Kg
98-86-2	Acetophenone	86.7	U	86.7	170	ug/Kg
65794-96-9	3+4-Methylphenols	79.6	U	79.6	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	5900	E	40.2	79.8	ug/Kg
67-72-1	Hexachloroethane	3400	E	82.8	170	ug/Kg
98-95-3	Nitrobenzene	5800	E	90.6	170	ug/Kg
78-59-1	Isophorone	4400	E	84.4	170	ug/Kg
88-75-5	2-Nitrophenol	2300		94.3	170	ug/Kg
105-67-9	2,4-Dimethylphenol	93.0	U	93.0	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	4000	E	85.6	170	ug/Kg
120-83-2	2,4-Dichlorophenol	75.3	U	75.3	170	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4600	E	85.2	170	ug/Kg
65-85-0	Benzoic acid	240	U	240	330	ug/Kg
91-20-3	Naphthalene	82.4	U	82.4	170	ug/Kg
106-47-8	4-Chloroaniline	82.4	U	82.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	83.1	U	83.1	170	ug/Kg
105-60-2	Caprolactam	86.6	U	86.6	330	ug/Kg

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-BNA-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140343.D	1	10/25/24 09:50	11/13/24 15:25	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
59-50-7	4-Chloro-3-methylphenol	77.3	U	77.3	170	ug/Kg
91-57-6	2-Methylnaphthalene	3200	E	82.3	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	U	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	3800	E	71.2	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	73.8	U	73.8	170	ug/Kg
92-52-4	1,1-Biphenyl	87.2	U	87.2	170	ug/Kg
91-58-7	2-Chloronaphthalene	2300		83.1	170	ug/Kg
88-74-4	2-Nitroaniline	94.8	U	94.8	170	ug/Kg
131-11-3	Dimethylphthalate	2300		81.5	170	ug/Kg
208-96-8	Acenaphthylene	2800	E	86.3	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	83.0	U	83.0	170	ug/Kg
99-09-2	3-Nitroaniline	89.0	U	89.0	170	ug/Kg
83-32-9	Acenaphthene	2400		80.9	170	ug/Kg
51-28-5	2,4-Dinitrophenol	240	U	240	330	ug/Kg
100-02-7	4-Nitrophenol	2800	E	120	330	ug/Kg
132-64-9	Dibenzofuran	4000	E	84.2	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	86.0	U	86.0	170	ug/Kg
84-66-2	Diethylphthalate	79.9	U	79.9	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	85.4	U	85.4	170	ug/Kg
86-73-7	Fluorene	3600	E	85.3	170	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	UQ	120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	81.4	U	81.4	170	ug/Kg
103-33-3	Azobenzene	79.4	U	79.4	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	3300	E	78.7	170	ug/Kg
118-74-1	Hexachlorobenzene	2600		84.8	170	ug/Kg
1912-24-9	Atrazine	91.2	U	91.2	170	ug/Kg
87-86-5	Pentachlorophenol	3200	E	77.1	330	ug/Kg
85-01-8	Phenanthrene	2100		83.8	170	ug/Kg
120-12-7	Anthracene	2600		84.2	170	ug/Kg
86-74-8	Carbazole	3200	E	80.1	170	ug/Kg

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-BNA-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140343.D	1	10/25/24 09:50	11/13/24 15:25	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
84-74-2	Di-n-butylphthalate	3100	E	84.1	170	ug/Kg
206-44-0	Fluoranthene	1600		81.5	170	ug/Kg
92-87-5	Benzidine	160	U	160	330	ug/Kg
129-00-0	Pyrene	82.8	U	82.8	170	ug/Kg
85-68-7	Butylbenzylphthalate	4000	E	96.6	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	98.4	U	98.4	330	ug/Kg
56-55-3	Benzo(a)anthracene	2100		80.5	170	ug/Kg
218-01-9	Chrysene	79.3	U	79.3	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1900		90.8	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	80.9	U	80.9	170	ug/Kg
207-08-9	Benzo(k)fluoranthene	82.4	U	82.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	92.8	U	92.8	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1500		77.9	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.0	U	81.0	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	79.9	U	79.9	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.6	U	86.6	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2300		74.5	170	ug/Kg
90-12-0	1-Methylnaphthalene	83.0	U	83.0	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	88.0		18 - 112	59%	SPK: 150
13127-88-3	Phenol-d6	91.3		15 - 107	61%	SPK: 150
4165-60-0	Nitrobenzene-d5	64.2		18 - 107	64%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.3		20 - 109	65%	SPK: 100
118-79-6	2,4,6-Tribromophenol	99.2		10 - 116	66%	SPK: 150
1718-51-0	Terphenyl-d14	83.0		10 - 105	83%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	108000	6.875			
1146-65-2	Naphthalene-d8	423000	8.157			

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-BNA-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140343.D	1	10/25/24 09:50	11/13/24 15:25	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
15067-26-2	Acenaphthene-d10	238000	9.91			
1517-22-2	Phenanthrene-d10	445000	11.404			
1719-03-5	Chrysene-d12	249000	14.08			
1520-96-3	Perylene-d12	223000	15.615			

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:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-BNA-SOILDL	SDG No.:	P4495
Lab Sample ID:	P4495-11DL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140344.D	5	10/25/24 09:50	11/13/24 16:02	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
62-75-9	n-Nitrosodimethylamine	430	UD	430	1600	ug/Kg
110-86-1	Pyridine	400	UD	400	850	ug/Kg
100-52-7	Benzaldehyde	910	UD	910	1600	ug/Kg
62-53-3	Aniline	480	UD	480	850	ug/Kg
108-95-2	Phenol	410	UD	410	850	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	5600	D	420	850	ug/Kg
95-57-8	2-Chlorophenol	1900	D	420	850	ug/Kg
95-50-1	1,2-Dichlorobenzene	2600	D	420	850	ug/Kg
541-73-1	1,3-Dichlorobenzene	3900	D	430	850	ug/Kg
106-46-7	1,4-Dichlorobenzene	4700	D	430	850	ug/Kg
100-51-6	Benzyl Alcohol	410	UD	410	1600	ug/Kg
95-48-7	2-Methylphenol	400	UD	400	850	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	2800	D	450	850	ug/Kg
98-86-2	Acetophenone	430	UD	430	850	ug/Kg
65794-96-9	3+4-Methylphenols	400	UD	400	1600	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	5700	D	200	400	ug/Kg
67-72-1	Hexachloroethane	3300	D	410	850	ug/Kg
98-95-3	Nitrobenzene	5700	D	450	850	ug/Kg
78-59-1	Isophorone	4300	D	420	850	ug/Kg
88-75-5	2-Nitrophenol	2100	D	470	850	ug/Kg
105-67-9	2,4-Dimethylphenol	460	UD	460	850	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	3800	D	430	850	ug/Kg
120-83-2	2,4-Dichlorophenol	380	UD	380	850	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4700	D	430	850	ug/Kg
65-85-0	Benzoic acid	1200	UD	1200	1600	ug/Kg
91-20-3	Naphthalene	410	UD	410	850	ug/Kg
106-47-8	4-Chloroaniline	410	UD	410	850	ug/Kg
87-68-3	Hexachlorobutadiene	420	UD	420	850	ug/Kg
105-60-2	Caprolactam	430	UD	430	1600	ug/Kg

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-BNA-SOILDL	SDG No.:	P4495
Lab Sample ID:	P4495-11DL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140344.D	5	10/25/24 09:50	11/13/24 16:02	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
59-50-7	4-Chloro-3-methylphenol	390	UD	390	850	ug/Kg
91-57-6	2-Methylnaphthalene	3400	D	410	850	ug/Kg
77-47-4	Hexachlorocyclopentadiene	780	UD	780	1600	ug/Kg
88-06-2	2,4,6-Trichlorophenol	3800	D	360	850	ug/Kg
95-95-4	2,4,5-Trichlorophenol	370	UD	370	850	ug/Kg
92-52-4	1,1-Biphenyl	440	UD	440	850	ug/Kg
91-58-7	2-Chloronaphthalene	2300	D	420	850	ug/Kg
88-74-4	2-Nitroaniline	470	UD	470	850	ug/Kg
131-11-3	Dimethylphthalate	2400	D	410	850	ug/Kg
208-96-8	Acenaphthylene	2900	D	430	850	ug/Kg
606-20-2	2,6-Dinitrotoluene	420	UD	420	850	ug/Kg
99-09-2	3-Nitroaniline	440	UD	440	850	ug/Kg
83-32-9	Acenaphthene	2400	D	400	850	ug/Kg
51-28-5	2,4-Dinitrophenol	1200	UD	1200	1600	ug/Kg
100-02-7	4-Nitrophenol	2100	D	580	1600	ug/Kg
132-64-9	Dibenzofuran	4500	D	420	850	ug/Kg
121-14-2	2,4-Dinitrotoluene	430	UD	430	850	ug/Kg
84-66-2	Diethylphthalate	400	UD	400	850	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	430	UD	430	850	ug/Kg
86-73-7	Fluorene	3900	D	430	850	ug/Kg
100-01-6	4-Nitroaniline	530	UD	530	850	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	580	UDQ	580	1600	ug/Kg
86-30-6	n-Nitrosodiphenylamine	410	UD	410	850	ug/Kg
103-33-3	Azobenzene	400	UD	400	850	ug/Kg
101-55-3	4-Bromophenyl-phenylether	3500	D	390	850	ug/Kg
118-74-1	Hexachlorobenzene	2500	D	420	850	ug/Kg
1912-24-9	Atrazine	460	UD	460	850	ug/Kg
87-86-5	Pentachlorophenol	2400	D	390	1600	ug/Kg
85-01-8	Phenanthrene	2100	D	420	850	ug/Kg
120-12-7	Anthracene	2700	D	420	850	ug/Kg
86-74-8	Carbazole	3300	D	400	850	ug/Kg

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-BNA-SOILDL	SDG No.:	P4495
Lab Sample ID:	P4495-11DL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140344.D	5	10/25/24 09:50	11/13/24 16:02	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
84-74-2	Di-n-butylphthalate	3300	D	420	850	ug/Kg
206-44-0	Fluoranthene	1600	D	410	850	ug/Kg
92-87-5	Benzidine	810	UD	810	1600	ug/Kg
129-00-0	Pyrene	410	UD	410	850	ug/Kg
85-68-7	Butylbenzylphthalate	3800	D	480	850	ug/Kg
91-94-1	3,3-Dichlorobenzidine	490	UD	490	1600	ug/Kg
56-55-3	Benzo(a)anthracene	2000	D	400	850	ug/Kg
218-01-9	Chrysene	400	UD	400	850	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1900	D	450	850	ug/Kg
117-84-0	Di-n-octyl phthalate	550	UD	550	1600	ug/Kg
205-99-2	Benzo(b)fluoranthene	400	UD	400	850	ug/Kg
207-08-9	Benzo(k)fluoranthene	410	UD	410	850	ug/Kg
50-32-8	Benzo(a)pyrene	460	UD	460	850	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1200	D	390	850	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	410	UD	410	850	ug/Kg
191-24-2	Benzo(g,h,i)perylene	400	UD	400	850	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	430	UD	430	850	ug/Kg
123-91-1	1,4-Dioxane	550	UD	550	850	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2100	D	370	850	ug/Kg
90-12-0	1-Methylnaphthalene	420	UD	420	850	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	82.4		18 - 112	55%	SPK: 150
13127-88-3	Phenol-d6	84.0		15 - 107	56%	SPK: 150
4165-60-0	Nitrobenzene-d5	57.4		18 - 107	57%	SPK: 100
321-60-8	2-Fluorobiphenyl	64.8		20 - 109	65%	SPK: 100
118-79-6	2,4,6-Tribromophenol	91.7		10 - 116	61%	SPK: 150
1718-51-0	Terphenyl-d14	78.4		10 - 105	78%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	114000	6.875			
1146-65-2	Naphthalene-d8	459000	8.157			

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-BNA-SOILDL	SDG No.:	P4495
Lab Sample ID:	P4495-11DL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140344.D	5	10/25/24 09:50	11/13/24 16:02	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
15067-26-2	Acenaphthene-d10	256000	9.91			
1517-22-2	Phenanthrene-d10	483000	11.398			
1719-03-5	Chrysene-d12	304000	14.063			
1520-96-3	Perylene-d12	246000	15.586			

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

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

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
P4495-11	PT-BNA-SOIL	2-Fluorophenol	150	88.0	59		18	112
		Phenol-d6	150	91.3	61		15	107
		Nitrobenzene-d5	100	64.2	64		18	107
		2-Fluorobiphenyl	100	65.3	65		20	109
		2,4,6-Tribromophenol	150	99.2	66		10	116
		Terphenyl-d14	100	83.0	83		10	105
P4495-11DL	PT-BNA-SOILDL	2-Fluorophenol	150	82.4	55		18	112
		Phenol-d6	150	84.0	56		15	107
		Nitrobenzene-d5	100	57.4	57		18	107
		2-Fluorobiphenyl	100	64.8	65		20	109
		2,4,6-Tribromophenol	150	91.7	61		10	116
		Terphenyl-d14	100	78.4	78		10	105
P4547-05MS	BP-F-20MS	2-Fluorophenol	150	90.8	61		18	112
		Phenol-d6	150	91.2	61		15	107
		Nitrobenzene-d5	100	66.4	66		18	107
		2-Fluorobiphenyl	100	61.5	61		20	109
		2,4,6-Tribromophenol	150	106	71		10	116
		Terphenyl-d14	100	68.7	69		10	105
P4547-05MSD	BP-F-20MSD	2-Fluorophenol	150	90.8	61		18	112
		Phenol-d6	150	91.9	61		15	107
		Nitrobenzene-d5	100	66.5	66		18	107
		2-Fluorobiphenyl	100	61.6	62		20	109
		2,4,6-Tribromophenol	150	109	73		10	116
		Terphenyl-d14	100	70.4	70		10	105
PB164401BL	PB164401BL	2-Fluorophenol	150	129	86		18	112
		Phenol-d6	150	126	84		15	107
		Nitrobenzene-d5	100	87.1	87		18	107
		2-Fluorobiphenyl	100	85.2	85		20	109
		2,4,6-Tribromophenol	150	121	80		10	116
		Terphenyl-d14	100	82.5	82		10	105
PB164401BS	PB164401BS	2-Fluorophenol	150	115	77		18	112
		Phenol-d6	150	112	75		15	107
		Nitrobenzene-d5	100	85.7	86		18	107
		2-Fluorobiphenyl	100	83.9	84		20	109
		2,4,6-Tribromophenol	150	135	90		10	116
		Terphenyl-d14	100	87.9	88		10	105

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P4547-05MS		**Client Sample ID: BP-F-20MS**						**DataFile: BF140057.D**			
n-Nitrosodimethylamine	1200	0	940	ug/Kg	78				66	124	
Pyridine	1200	0	930	ug/Kg	78				45	119	
Benzaldehyde	1200	0	280	ug/Kg	23				10	86	
Aniline	1200	0	570	ug/Kg	48				10	88	
Phenol	1200	0	970	ug/Kg	81				67	126	
bis(2-Chloroethyl)ether	1200	0	940	ug/Kg	78				54	125	
2-Chlorophenol	1200	0	1000	ug/Kg	83				79	107	
1,2-Dichlorobenzene	1200	0	980	ug/Kg	82				61	105	
1,3-Dichlorobenzene	1200	0	930	ug/Kg	78				62	101	
1,4-Dichlorobenzene	1200	0	940	ug/Kg	78				63	104	
Benzyl Alcohol	1200	0	1000	ug/Kg	83				47	126	
2-Methylphenol	1200	0	970	ug/Kg	81				66	122	
2,2-oxybis(1-Chloropropane)	1200	0	910	ug/Kg	76				65	110	
Acetophenone	1200	0	920	ug/Kg	77				75	111	
3+4-Methylphenols	1200	0	940	ug/Kg	78				66	104	
N-Nitroso-di-n-propylamine	1200	0	950	ug/Kg	79				59	119	
Hexachloroethane	1200	0	960	ug/Kg	80				65	117	
Nitrobenzene	1200	0	930	ug/Kg	78				70	119	
Isophorone	1200	0	980	ug/Kg	82				76	122	
2-Nitrophenol	1200	0	1200	ug/Kg	100				54	145	
2,4-Dimethylphenol	1200	0	1100	ug/Kg	92				44	135	
bis(2-Chloroethoxy)methane	1200	0	950	ug/Kg	79				68	112	
2,4-Dichlorophenol	1200	0	990	ug/Kg	83				72	118	
1,2,4-Trichlorobenzene	1200	0	930	ug/Kg	78				57	103	
Benzoic acid	1200	0	890	ug/Kg	74				50	104	
Naphthalene	1200	0	940	ug/Kg	78				72	110	
4-Chloroaniline	1200	0	170	ug/Kg	14				10	91	
Hexachlorobutadiene	1200	0	960	ug/Kg	80				66	114	
Caprolactam	1200	0	990	ug/Kg	83				51	134	
4-Chloro-3-methylphenol	1200	0	990	ug/Kg	83				57	132	
2-Methylnaphthalene	1200	0	980	ug/Kg	82				59	123	
Hexachlorocyclopentadiene	2300	0	3100	ug/Kg	135				10	175	
2,4,6-Trichlorophenol	1200	0	1000	ug/Kg	83				72	117	
2,4,5-Trichlorophenol	1200	0	970	ug/Kg	81				72	117	
1,1-Biphenyl	1200	0	940	ug/Kg	78				75	113	
2-Chloronaphthalene	1200	0	940	ug/Kg	78				67	118	
2-Nitroaniline	1200	0	1100	ug/Kg	92				69	127	
Dimethylphthalate	1200	0	990	ug/Kg	83				70	113	
Acenaphthylene	1200	0	1000	ug/Kg	83				79	118	
2,6-Dinitrotoluene	1200	0	1000	ug/Kg	83				70	125	
3-Nitroaniline	1200	0	440	ug/Kg	37				30	99	
Acenaphthene	1200	0	1100	ug/Kg	92				70	121	
2,4-Dinitrophenol	2300	0	2300	ug/Kg	100				10	155	
4-Nitrophenol	2300	0	1900	ug/Kg	83				45	133	
Dibenzofuran	1200	0	950	ug/Kg	79				72	110	
2,4-Dinitrotoluene	1200	0	1100	ug/Kg	92				55	128	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Diethylphthalate	1200	0	980	ug/Kg	82				70	112	
4-Chlorophenyl-phenylether	1200	0	970	ug/Kg	81				71	108	
Fluorene	1200	0	940	ug/Kg	78				68	116	
4-Nitroaniline	1200	0	970	ug/Kg	81				55	120	
4,6-Dinitro-2-methylphenol	1200	0	1400	ug/Kg	117				10	160	
N-Nitrosodiphenylamine	1200	0	980	ug/Kg	82				73	118	
Azobenzene	1200	0	1000	ug/Kg	83				73	110	
4-Bromophenyl-phenylether	1200	0	1000	ug/Kg	83				65	121	
Hexachlorobenzene	1200	0	980	ug/Kg	82				67	118	
Atrazine	1200	0	1200	ug/Kg	100				79	127	
Pentachlorophenol	2300	0	1900	ug/Kg	83				47	128	
Phenanthrene	1200	0	960	ug/Kg	80				52	128	
Anthracene	1200	0	1000	ug/Kg	83				62	124	
Carbazole	1200	0	910	ug/Kg	76				59	119	
Di-n-butylphthalate	1200	0	1000	ug/Kg	83				69	118	
Fluoranthene	1200	0	870	ug/Kg	73				44	125	
Benzidine	2300	0	1200	ug/Kg	52				10	119	
Pyrene	1200	0	970	ug/Kg	81				26	142	
Butylbenzylphthalate	1200	0	1300	ug/Kg	108				64	126	
3,3-Dichlorobenzidine	1200	0	520	ug/Kg	43				33	116	
Benzo(a)anthracene	1200	0	990	ug/Kg	83				71	114	
Chrysene	1200	0	950	ug/Kg	79				57	121	
bis(2-Ethylhexyl)phthalate	1200	0	1400	ug/Kg	117				42	169	
Di-n-octyl phthalate	1200	0	1200	ug/Kg	100				23	175	
Benzo(b)fluoranthene	1200	0	920	ug/Kg	77				67	121	
Benzo(k)fluoranthene	1200	0	1000	ug/Kg	83				57	134	
Benzo(a)pyrene	1200	0	1100	ug/Kg	92				70	142	
Indeno(1,2,3-cd)pyrene	1200	0	880	ug/Kg	73				40	129	
Dibenz(a,h)anthracene	1200	0	890	ug/Kg	74				43	123	
Benzo(g,h,i)perylene	1200	0	740	ug/Kg	62				24	125	
1,2,4,5-Tetrachlorobenzene	1200	0	960	ug/Kg	80				69	124	
1,4-Dioxane	1200	0	890	ug/Kg	74				46	112	
2,3,4,6-Tetrachlorophenol	1200	0	1000	ug/Kg	83				69	112	
1-Methylnaphthalene	1200	0	930	ug/Kg	78				70	130	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P4547-05MSD		**Client Sample ID: BP-F-20MSD**						**DataFile: BF140058.D**			
n-Nitrosodimethylamine	1200	0	900	ug/Kg	75		4		66	124	20
Pyridine	1200	0	880	ug/Kg	73		7		45	119	20
Benzaldehyde	1200	0	280	ug/Kg	23		0		10	86	20
Aniline	1200	0	580	ug/Kg	48		0		10	88	20
Phenol	1200	0	990	ug/Kg	83		2		67	126	20
bis(2-Chloroethyl)ether	1200	0	970	ug/Kg	81		4		54	125	20
2-Chlorophenol	1200	0	1000	ug/Kg	83		0		79	107	20
1,2-Dichlorobenzene	1200	0	980	ug/Kg	82		0		61	105	20
1,3-Dichlorobenzene	1200	0	950	ug/Kg	79		1		62	101	20
1,4-Dichlorobenzene	1200	0	970	ug/Kg	81		4		63	104	20
Benzyl Alcohol	1200	0	1000	ug/Kg	83		0		47	126	20
2-Methylphenol	1200	0	990	ug/Kg	83		2		66	122	20
2,2-oxybis(1-Chloropropane)	1200	0	920	ug/Kg	77		1		65	110	20
Acetophenone	1200	0	930	ug/Kg	78		1		75	111	20
3+4-Methylphenols	1200	0	960	ug/Kg	80		3		66	104	20
N-Nitroso-di-n-propylamine	1200	0	960	ug/Kg	80		1		59	119	20
Hexachloroethane	1200	0	970	ug/Kg	81		1		65	117	20
Nitrobenzene	1200	0	940	ug/Kg	78		0		70	119	20
Isophorone	1200	0	990	ug/Kg	83		1		76	122	20
2-Nitrophenol	1200	0	1200	ug/Kg	100		0		54	145	20
2,4-Dimethylphenol	1200	0	1100	ug/Kg	92		0		44	135	20
bis(2-Chloroethoxy)methane	1200	0	970	ug/Kg	81		3		68	112	20
2,4-Dichlorophenol	1200	0	990	ug/Kg	83		0		72	118	20
1,2,4-Trichlorobenzene	1200	0	930	ug/Kg	78		0		57	103	20
Benzoic acid	1200	0	900	ug/Kg	75		1		50	104	20
Naphthalene	1200	0	950	ug/Kg	79		1		72	110	20
4-Chloroaniline	1200	0	170	ug/Kg	14		0		10	91	20
Hexachlorobutadiene	1200	0	990	ug/Kg	83		4		66	114	20
Caprolactam	1200	0	1000	ug/Kg	83		0		51	134	20
4-Chloro-3-methylphenol	1200	0	1000	ug/Kg	83		0		57	132	20
2-Methylnaphthalene	1200	0	980	ug/Kg	82		0		59	123	20
Hexachlorocyclopentadiene	2300	0	3100	ug/Kg	135		0		10	175	20
2,4,6-Trichlorophenol	1200	0	1000	ug/Kg	83		0		72	117	20
2,4,5-Trichlorophenol	1200	0	990	ug/Kg	83		2		72	117	20
1,1-Biphenyl	1200	0	950	ug/Kg	79		1		75	113	20
2-Chloronaphthalene	1200	0	940	ug/Kg	78		0		67	118	20
2-Nitroaniline	1200	0	1100	ug/Kg	92		0		69	127	20
Dimethylphthalate	1200	0	1000	ug/Kg	83		0		70	113	20
Acenaphthylene	1200	0	1000	ug/Kg	83		0		79	118	20
2,6-Dinitrotoluene	1200	0	1000	ug/Kg	83		0		70	125	20
3-Nitroaniline	1200	0	450	ug/Kg	38		3		30	99	20
Acenaphthene	1200	0	1100	ug/Kg	92		0		70	121	20
2,4-Dinitrophenol	2300	0	2400	ug/Kg	104		4		10	155	20
4-Nitrophenol	2300	0	2000	ug/Kg	87		5		45	133	20
Dibenzofuran	1200	0	980	ug/Kg	82		4		72	110	20
2,4-Dinitrotoluene	1200	0	1100	ug/Kg	92		0		55	128	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Diethylphthalate	1200	0	990	ug/Kg	83	1			70	112	20
4-Chlorophenyl-phenylether	1200	0	980	ug/Kg	82	1			71	108	20
Fluorene	1200	0	950	ug/Kg	79	1			68	116	20
4-Nitroaniline	1200	0	1000	ug/Kg	83	2			55	120	20
4,6-Dinitro-2-methylphenol	1200	0	1400	ug/Kg	117	0			10	160	20
N-Nitrosodiphenylamine	1200	0	990	ug/Kg	83	1			73	118	20
Azobenzene	1200	0	1000	ug/Kg	83	0			73	110	20
4-Bromophenyl-phenylether	1200	0	1000	ug/Kg	83	0			65	121	20
Hexachlorobenzene	1200	0	990	ug/Kg	83	1			67	118	20
Atrazine	1200	0	1200	ug/Kg	100	0			79	127	20
Pentachlorophenol	2300	0	1900	ug/Kg	83	0			47	128	20
Phenanthrene	1200	0	970	ug/Kg	81	1			52	128	20
Anthracene	1200	0	1000	ug/Kg	83	0			62	124	20
Carbazole	1200	0	910	ug/Kg	76	0			59	119	20
Di-n-butylphthalate	1200	0	1000	ug/Kg	83	0			69	118	20
Fluoranthene	1200	0	890	ug/Kg	74	1			44	125	20
Benzidine	2300	0	1300	ug/Kg	57	9			10	119	20
Pyrene	1200	0	980	ug/Kg	82	1			26	142	20
Butylbenzylphthalate	1200	0	1300	ug/Kg	108	0			64	126	20
3,3-Dichlorobenzidine	1200	0	530	ug/Kg	44	2			33	116	20
Benzo(a)anthracene	1200	0	1000	ug/Kg	83	0			71	114	20
Chrysene	1200	0	970	ug/Kg	81	3			57	121	20
bis(2-Ethylhexyl)phthalate	1200	0	1500	ug/Kg	125	7			42	169	20
Di-n-octyl phthalate	1200	0	1300	ug/Kg	108	8			23	175	20
Benzo(b)fluoranthene	1200	0	920	ug/Kg	77	0			67	121	20
Benzo(k)fluoranthene	1200	0	1000	ug/Kg	83	0			57	134	20
Benzo(a)pyrene	1200	0	1100	ug/Kg	92	0			70	142	20
Indeno(1,2,3-cd)pyrene	1200	0	890	ug/Kg	74	1			40	129	20
Dibenz(a,h)anthracene	1200	0	890	ug/Kg	74	0			43	123	20
Benzo(g,h,i)perylene	1200	0	740	ug/Kg	62	0			24	125	20
1,2,4,5-Tetrachlorobenzene	1200	0	960	ug/Kg	80	0			69	124	20
1,4-Dioxane	1200	0	860	ug/Kg	72	3			46	112	20
2,3,4,6-Tetrachlorophenol	1200	0	1000	ug/Kg	83	0			69	112	20
1-Methylnaphthalene	1200	0	940	ug/Kg	78	0			70	130	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: 8270E **DataFile:** BF140052.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB164401BS	n-Nitrosodimethylamine	1700	1300	ug/Kg	76				57	103	
	Pyridine	1700	1300	ug/Kg	76				28	98	
	Benzaldehyde	1700	450	ug/Kg	26				10	133	
	Aniline	1700	1200	ug/Kg	71				38	100	
	Phenol	1700	1400	ug/Kg	82				62	112	
	bis(2-Chloroethyl)ether	1700	1400	ug/Kg	82				60	101	
	2-Chlorophenol	1700	1500	ug/Kg	88				65	112	
	1,2-Dichlorobenzene	1700	1500	ug/Kg	88				51	102	
	1,3-Dichlorobenzene	1700	1400	ug/Kg	82				52	99	
	1,4-Dichlorobenzene	1700	1400	ug/Kg	82				52	100	
	Benzyl Alcohol	1700	1500	ug/Kg	88				42	116	
	2-Methylphenol	1700	1400	ug/Kg	82				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1400	ug/Kg	82				51	100	
	Acetophenone	1700	1400	ug/Kg	82				66	98	
	3+4-Methylphenols	1700	1400	ug/Kg	82				58	111	
	N-Nitroso-di-n-propylamine	1700	1400	ug/Kg	82				63	95	
	Hexachloroethane	1700	1400	ug/Kg	82				72	108	
	Nitrobenzene	1700	1400	ug/Kg	82				57	101	
	Isophorone	1700	1400	ug/Kg	82				59	99	
	2-Nitrophenol	1700	1700	ug/Kg	100				61	111	
	2,4-Dimethylphenol	1700	1600	ug/Kg	94				46	141	
	bis(2-Chloroethoxy)methane	1700	1400	ug/Kg	82				66	97	
	2,4-Dichlorophenol	1700	1400	ug/Kg	82				62	107	
	1,2,4-Trichlorobenzene	1700	1400	ug/Kg	82				44	110	
	Benzoic acid	1700	1300	ug/Kg	76				10	140	
	Naphthalene	1700	1400	ug/Kg	82				62	100	
	4-Chloroaniline	1700	580	ug/Kg	34				16	100	
	Hexachlorobutadiene	1700	1400	ug/Kg	82				53	98	
	Caprolactam	1700	1500	ug/Kg	88				67	110	
	4-Chloro-3-methylphenol	1700	1400	ug/Kg	82				58	112	
	2-Methylnaphthalene	1700	1400	ug/Kg	82				60	104	
	Hexachlorocyclopentadiene	3300	5400	ug/Kg	164				45	165	
	2,4,6-Trichlorophenol	1700	1500	ug/Kg	88				59	102	
	2,4,5-Trichlorophenol	1700	1500	ug/Kg	88				61	98	
	1,1-Biphenyl	1700	1400	ug/Kg	82				57	103	
	2-Chloronaphthalene	1700	1400	ug/Kg	82				58	99	
	2-Nitroaniline	1700	1600	ug/Kg	94				66	101	
	Dimethylphthalate	1700	1400	ug/Kg	82				61	99	
	Acenaphthylene	1700	1500	ug/Kg	88				63	101	
	2,6-Dinitrotoluene	1700	1500	ug/Kg	88				61	104	
	3-Nitroaniline	1700	1000	ug/Kg	59				28	100	
	Acenaphthene	1700	1600	ug/Kg	94				57	104	
	2,4-Dinitrophenol	3300	3600	ug/Kg	109				37	128	
	4-Nitrophenol	3300	3200	ug/Kg	97				48	119	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: 8270E **DataFile:** BF140052.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164401BS	Dibenzofuran	1700	1400	ug/Kg	82				63	99	
	2,4-Dinitrotoluene	1700	1700	ug/Kg	100				60	106	
	Diethylphthalate	1700	1400	ug/Kg	82				60	101	
	4-Chlorophenyl-phenylether	1700	1400	ug/Kg	82				58	98	
	Fluorene	1700	1400	ug/Kg	82				61	101	
	4-Nitroaniline	1700	1600	ug/Kg	94				64	103	
	4,6-Dinitro-2-methylphenol	1700	2000	ug/Kg	118		*		76	113	
	N-Nitrosodiphenylamine	1700	1400	ug/Kg	82				71	99	
	Azobenzene	1700	1400	ug/Kg	82				54	103	
	4-Bromophenyl-phenylether	1700	1400	ug/Kg	82				66	102	
	Hexachlorobenzene	1700	1400	ug/Kg	82				64	98	
	Atrazine	1700	1700	ug/Kg	100				47	152	
	Pentachlorophenol	3300	2900	ug/Kg	88				67	105	
	Phenanthrene	1700	1500	ug/Kg	88				59	103	
	Anthracene	1700	1500	ug/Kg	88				61	105	
	Carbazole	1700	1500	ug/Kg	88				61	99	
	Di-n-butylphthalate	1700	1400	ug/Kg	82				58	104	
	Fluoranthene	1700	1500	ug/Kg	88				57	107	
	Benzidine	3300	1600	ug/Kg	48				10	98	
	Pyrene	1700	1500	ug/Kg	88				59	103	
	Butylbenzylphthalate	1700	1700	ug/Kg	100				55	103	
	3,3-Dichlorobenzidine	1700	1000	ug/Kg	59				42	91	
	Benzo(a)anthracene	1700	1500	ug/Kg	88				60	102	
	Chrysene	1700	1500	ug/Kg	88				59	101	
	bis(2-Ethylhexyl)phthalate	1700	1600	ug/Kg	94				54	135	
	Di-n-octyl phthalate	1700	1300	ug/Kg	76				52	137	
	Benzo(b)fluoranthene	1700	1400	ug/Kg	82				62	109	
	Benzo(k)fluoranthene	1700	1600	ug/Kg	94				62	109	
	Benzo(a)pyrene	1700	1600	ug/Kg	94				63	103	
	Indeno(1,2,3-cd)pyrene	1700	1500	ug/Kg	88				63	101	
	Dibenz(a,h)anthracene	1700	1500	ug/Kg	88				61	112	
	Benzo(g,h,i)perylene	1700	1400	ug/Kg	82				70	108	
	1,2,4,5-Tetrachlorobenzene	1700	1400	ug/Kg	82				53	101	
	1,4-Dioxane	1700	1200	ug/Kg	71				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1600	ug/Kg	94				59	108	
	1-Methylnaphthalene	1700	1400	ug/Kg	82				70	130	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164401BL

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Lab File ID: BF140342.D Lab Sample ID: PB164401BL

Instrument ID: BNA_F Date Extracted: 10/25/2024

Matrix: (soil/water) SOIL Date Analyzed: 11/13/2024

Level: (low/med) LOW Time Analyzed: 13:45

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PT-BNA-SOIL	P4495-11	BF140343.D	11/13/2024
BP-F-20MS	P4547-05MS	BF140057.D	10/26/2024
BP-F-20MSD	P4547-05MSD	BF140058.D	10/26/2024
PB164401BS	PB164401BS	BF140052.D	10/26/2024

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM SAS No.: P4495 SDG NO.: P4495

Lab File ID: BF139843.D DFTPP Injection Date: 10/18/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:22

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	43.8
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	37.8
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	46.9
197	Less than 2.0% of mass 198	0.8
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	26.9
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	14
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.9 (19.2) 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	BF139844.D	10/18/2024	10:27
SSTDICC005	SSTDICC005	BF139845.D	10/18/2024	10:55
SSTDICC010	SSTDICC010	BF139846.D	10/18/2024	11:23
SSTDICC020	SSTDICC020	BF139847.D	10/18/2024	11:52
SSTDICCC040	SSTDICCC040	BF139848.D	10/18/2024	12:20
SSTDICC050	SSTDICC050	BF139849.D	10/18/2024	12:49
SSTDICC060	SSTDICC060	BF139850.D	10/18/2024	13:17
SSTDICC080	SSTDICC080	BF139851.D	10/18/2024	13:46

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM SAS No.: P4495 SDG NO.: P4495

Lab File ID: BF140049.D DFTPP Injection Date: 10/26/2024

Instrument ID: BNA_F DFTPP Injection Time: 10:10

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	42.1
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	38.1
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	47.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 60.0% of mass 198	28.3
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	14.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.1 (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	BF140050.D	10/26/2024	10:38
PB164401BS	PB164401BS	BF140052.D	10/26/2024	11:34
BP-F-20MS	P4547-05MS	BF140057.D	10/26/2024	13:58
BP-F-20MSD	P4547-05MSD	BF140058.D	10/26/2024	14:27

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM SAS No.: P4495 SDG NO.: P4495

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	100
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
PB164401BL	PB164401BL	BF140342.D	11/13/2024	13:45
PT-BNA-SOIL	P4495-11	BF140343.D	11/13/2024	15:25
PT-BNA-SOILDL	P4495-11DL	BF140344.D	11/13/2024	16:02

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/26/2024

Lab File ID: BF140050.D Time Analyzed: 10:38

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	128827	6.892	465620	8.18	252523	9.93
	UPPER LIMIT	257654	7.392	931240	8.675	505046	10.428
	LOWER LIMIT	64413.5	6.392	232810	7.675	126262	9.428
	EPA SAMPLE NO.						
01	PB164401BS	133953	6.89	523078	8.17	286545	9.93
02	BP-F-20MS	141513	6.89	556548	8.17	317233	9.93
03	BP-F-20MSD	142054	6.89	561979	8.17	322249	9.93

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.: P4495 SAS No.: P4495 SDG NO.: P4495

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/26/2024

Lab File ID: BF140050.D Time Analyzed: 10:38

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	452033	11.416	241717	14.051	235878	15.533
	UPPER LIMIT	904066	11.916	483434	14.551	471756	16.033
	LOWER LIMIT	226017	10.916	120859	13.551	117939	15.033
	EPA SAMPLE NO.						
01	PB164401BS	514956	11.42	290190	14.06	270508	15.53
02	BP-F-20MS	543034	11.42	260710	14.05	285198	15.53
03	BP-F-20MSD	559748	11.42	268566	14.05	301700	15.53

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.: P4495 SAS No.: P4495 SDG NO.: P4495

EPA Sample No.: SSTDICCC040 Date Analyzed: 11/13/2024

Lab File ID: BF140340.D Time Analyzed: 12:48

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	147186	6.875	589077	8.16	334544	9.92
	UPPER LIMIT	294372	7.375	1178150	8.657	669088	10.416
	LOWER LIMIT	73593	6.375	294539	7.657	167272	9.416
	EPA SAMPLE NO.						
01	PB164401BL	155301	6.88	608379	8.16	344211	9.91
02	PT-BNA-SOIL	108039	6.88	422748	8.16	238094	9.91
03	PT-BNA-SOILDL	114318	6.88	459141	8.16	255752	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.: P4495 SAS No.: P4495 SDG NO.: P4495

EPA Sample No.: SSTDICCC040 Date Analyzed: 11/13/2024

Lab File ID: BF140340.D Time Analyzed: 12:48

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	628587	11.404	385940	14.063	322417	15.58
	UPPER LIMIT	1257170	11.904	771880	14.563	644834	16.08
	LOWER LIMIT	314294	10.904	192970	13.563	161209	15.08
	EPA SAMPLE NO.						
01	PB164401BL	680121	11.40	465934	14.06	362493	15.57
02	PT-BNA-SOIL	444526	11.40	249001	14.08	223254	15.62
03	PT-BNA-SOILDL	482859	11.40	303940	14.06	245817	15.59

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

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

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

QC SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164401BL	SDG No.:	P4495
Lab Sample ID:	PB164401BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140342.D	1	10/25/24 09:50	11/13/24 13:45	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
62-75-9	n-Nitrosodimethylamine	86.8	U	86.8	330	ug/Kg
110-86-1	Pyridine	79.9	U	79.9	170	ug/Kg
100-52-7	Benzaldehyde	180	U	180	330	ug/Kg
62-53-3	Aniline	96.9	U	96.9	170	ug/Kg
108-95-2	Phenol	82.9	U	82.9	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	83.7	U	83.7	170	ug/Kg
95-57-8	2-Chlorophenol	83.5	U	83.5	170	ug/Kg
95-50-1	1,2-Dichlorobenzene	84.6	U	84.6	170	ug/Kg
541-73-1	1,3-Dichlorobenzene	86.0	U	86.0	170	ug/Kg
106-46-7	1,4-Dichlorobenzene	86.5	U	86.5	170	ug/Kg
100-51-6	Benzyl Alcohol	83.0	U	83.0	330	ug/Kg
95-48-7	2-Methylphenol	80.6	U	80.6	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	90.9	U	90.9	170	ug/Kg
98-86-2	Acetophenone	86.9	U	86.9	170	ug/Kg
65794-96-9	3+4-Methylphenols	79.8	U	79.8	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	40.3	U	40.3	80.0	ug/Kg
67-72-1	Hexachloroethane	83.0	U	83.0	170	ug/Kg
98-95-3	Nitrobenzene	90.8	U	90.8	170	ug/Kg
78-59-1	Isophorone	84.6	U	84.6	170	ug/Kg
88-75-5	2-Nitrophenol	94.5	U	94.5	170	ug/Kg
105-67-9	2,4-Dimethylphenol	93.2	U	93.2	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	85.8	U	85.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	75.5	U	75.5	170	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	85.4	U	85.4	170	ug/Kg
65-85-0	Benzoic acid	240	U	240	330	ug/Kg
91-20-3	Naphthalene	82.6	U	82.6	170	ug/Kg
106-47-8	4-Chloroaniline	82.6	U	82.6	170	ug/Kg
87-68-3	Hexachlorobutadiene	83.3	U	83.3	170	ug/Kg
105-60-2	Caprolactam	86.8	U	86.8	330	ug/Kg

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Report of Analysis

Client:	Chemtech Consulting Group			Date Collected:	
Project:	NJ Soil PT			Date Received:	
Client Sample ID:	PB164401BL			SDG No.:	P4495
Lab Sample ID:	PB164401BL			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
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
BF140342.D	1	10/25/24 09:50	11/13/24 13:45	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
59-50-7	4-Chloro-3-methylphenol	77.5	U	77.5	170	ug/Kg
91-57-6	2-Methylnaphthalene	82.5	U	82.5	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	U	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	71.4	U	71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	74.0	U	74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	87.4	U	87.4	170	ug/Kg
91-58-7	2-Chloronaphthalene	83.3	U	83.3	170	ug/Kg
88-74-4	2-Nitroaniline	95.0	U	95.0	170	ug/Kg
131-11-3	Dimethylphthalate	81.7	U	81.7	170	ug/Kg
208-96-8	Acenaphthylene	86.5	U	86.5	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	83.2	U	83.2	170	ug/Kg
99-09-2	3-Nitroaniline	89.2	U	89.2	170	ug/Kg
83-32-9	Acenaphthene	81.1	U	81.1	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	84.4	U	84.4	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	86.2	U	86.2	170	ug/Kg
84-66-2	Diethylphthalate	80.1	U	80.1	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	85.6	U	85.6	170	ug/Kg
86-73-7	Fluorene	85.5	U	85.5	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	81.6	U	81.6	170	ug/Kg
103-33-3	Azobenzene	79.6	U	79.6	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	78.9	U	78.9	170	ug/Kg
118-74-1	Hexachlorobenzene	85.0	U	85.0	170	ug/Kg
1912-24-9	Atrazine	91.4	U	91.4	170	ug/Kg
87-86-5	Pentachlorophenol	77.3	U	77.3	330	ug/Kg
85-01-8	Phenanthrene	84.0	U	84.0	170	ug/Kg
120-12-7	Anthracene	84.4	U	84.4	170	ug/Kg
86-74-8	Carbazole	80.3	U	80.3	170	ug/Kg

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Report of Analysis

Client:	Chemtech Consulting Group			Date Collected:	
Project:	NJ Soil PT			Date Received:	
Client Sample ID:	PB164401BL			SDG No.:	P4495
Lab Sample ID:	PB164401BL			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
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
BF140342.D	1	10/25/24 09:50	11/13/24 13:45	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
84-74-2	Di-n-butylphthalate	84.3	U	84.3	170	ug/Kg
206-44-0	Fluoranthene	81.7	U	81.7	170	ug/Kg
92-87-5	Benzidine	160	U	160	330	ug/Kg
129-00-0	Pyrene	83.0	U	83.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	96.8	U	96.8	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	98.6	U	98.6	330	ug/Kg
56-55-3	Benzo(a)anthracene	80.7	U	80.7	170	ug/Kg
218-01-9	Chrysene	79.5	U	79.5	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	91.0	U	91.0	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	81.1	U	81.1	170	ug/Kg
207-08-9	Benzo(k)fluoranthene	82.6	U	82.6	170	ug/Kg
50-32-8	Benzo(a)pyrene	93.0	U	93.0	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78.1	U	78.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.2	U	81.2	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80.1	U	80.1	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.8	U	86.8	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	74.7	U	74.7	170	ug/Kg
90-12-0	1-Methylnaphthalene	83.2	U	83.2	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	129		18 - 112	86%	SPK: 150
13127-88-3	Phenol-d6	126		15 - 107	84%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.1		18 - 107	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	85.2		20 - 109	85%	SPK: 100
118-79-6	2,4,6-Tribromophenol	121		10 - 116	80%	SPK: 150
1718-51-0	Terphenyl-d14	82.5		10 - 105	82%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	155000	6.875			
1146-65-2	Naphthalene-d8	608000	8.157			

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Report of Analysis

Client:	Chemtech Consulting Group			Date Collected:	
Project:	NJ Soil PT			Date Received:	
Client Sample ID:	PB164401BL			SDG No.:	P4495
Lab Sample ID:	PB164401BL			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
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
BF140342.D	1	10/25/24 09:50	11/13/24 13:45	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
15067-26-2	Acenaphthene-d10	344000	9.91			
1517-22-2	Phenanthrene-d10	680000	11.398			
1719-03-5	Chrysene-d12	466000	14.057			
1520-96-3	Perylene-d12	362000	15.574			

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:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164401BS	SDG No.:	P4495
Lab Sample ID:	PB164401BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140052.D	1	10/25/24 09:50	10/26/24 11:34	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
62-75-9	n-Nitrosodimethylamine	1300		86.7	330	ug/Kg
110-86-1	Pyridine	1300		79.8	170	ug/Kg
100-52-7	Benzaldehyde	450		180	330	ug/Kg
62-53-3	Aniline	1200		96.8	170	ug/Kg
108-95-2	Phenol	1400		82.8	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1400		83.6	170	ug/Kg
95-57-8	2-Chlorophenol	1500		83.4	170	ug/Kg
95-50-1	1,2-Dichlorobenzene	1500		84.5	170	ug/Kg
541-73-1	1,3-Dichlorobenzene	1400		85.9	170	ug/Kg
106-46-7	1,4-Dichlorobenzene	1400		86.4	170	ug/Kg
100-51-6	Benzyl Alcohol	1500		82.9	330	ug/Kg
95-48-7	2-Methylphenol	1400		80.5	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1400		90.8	170	ug/Kg
98-86-2	Acetophenone	1400		86.8	170	ug/Kg
65794-96-9	3+4-Methylphenols	1400		79.7	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		40.3	79.9	ug/Kg
67-72-1	Hexachloroethane	1400		82.9	170	ug/Kg
98-95-3	Nitrobenzene	1400		90.7	170	ug/Kg
78-59-1	Isophorone	1400		84.5	170	ug/Kg
88-75-5	2-Nitrophenol	1700		94.4	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1600		93.1	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1400		85.7	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1400		75.4	170	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1400		85.3	170	ug/Kg
65-85-0	Benzoic acid	1300		240	330	ug/Kg
91-20-3	Naphthalene	1400		82.5	170	ug/Kg
106-47-8	4-Chloroaniline	580		82.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	1400		83.2	170	ug/Kg
105-60-2	Caprolactam	1500		86.7	330	ug/Kg

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Report of Analysis

Client:	Chemtech Consulting Group			Date Collected:	
Project:	NJ Soil PT			Date Received:	
Client Sample ID:	PB164401BS			SDG No.:	P4495
Lab Sample ID:	PB164401BS			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
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
BF140052.D	1	10/25/24 09:50	10/26/24 11:34	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
59-50-7	4-Chloro-3-methylphenol	1400		77.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	1400		82.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	5400	E	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1500		71.3	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1500		73.9	170	ug/Kg
92-52-4	1,1-Biphenyl	1400		87.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	1400		83.2	170	ug/Kg
88-74-4	2-Nitroaniline	1600		94.9	170	ug/Kg
131-11-3	Dimethylphthalate	1400		81.6	170	ug/Kg
208-96-8	Acenaphthylene	1500		86.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1500		83.1	170	ug/Kg
99-09-2	3-Nitroaniline	1000		89.1	170	ug/Kg
83-32-9	Acenaphthene	1600		81.0	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3600	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	3200	E	120	330	ug/Kg
132-64-9	Dibenzofuran	1400		84.3	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1700		86.1	170	ug/Kg
84-66-2	Diethylphthalate	1400		80.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1400		85.5	170	ug/Kg
86-73-7	Fluorene	1400		85.4	170	ug/Kg
100-01-6	4-Nitroaniline	1600		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2000		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1400		81.5	170	ug/Kg
103-33-3	Azobenzene	1400		79.5	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1400		78.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1400		84.9	170	ug/Kg
1912-24-9	Atrazine	1700		91.3	170	ug/Kg
87-86-5	Pentachlorophenol	2900	E	77.2	330	ug/Kg
85-01-8	Phenanthrene	1500		83.9	170	ug/Kg
120-12-7	Anthracene	1500		84.3	170	ug/Kg
86-74-8	Carbazole	1500		80.2	170	ug/Kg

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164401BS	SDG No.:	P4495
Lab Sample ID:	PB164401BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140052.D	1	10/25/24 09:50	10/26/24 11:34	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
84-74-2	Di-n-butylphthalate	1400		84.2	170	ug/Kg
206-44-0	Fluoranthene	1500		81.6	170	ug/Kg
92-87-5	Benzidine	1600		160	330	ug/Kg
129-00-0	Pyrene	1500		82.9	170	ug/Kg
85-68-7	Butylbenzylphthalate	1700		96.7	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1000		98.5	330	ug/Kg
56-55-3	Benzo(a)anthracene	1500		80.6	170	ug/Kg
218-01-9	Chrysene	1500		79.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1600		90.9	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1300		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1400		81.0	170	ug/Kg
207-08-9	Benzo(k)fluoranthene	1600		82.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	1600		92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1500		78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1500		81.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1400		80.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1400		86.7	170	ug/Kg
123-91-1	1,4-Dioxane	1200		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1600		74.6	170	ug/Kg
90-12-0	1-Methylnaphthalene	1400		83.1	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	115		18 - 112	77%	SPK: 150
13127-88-3	Phenol-d6	112		15 - 107	75%	SPK: 150
4165-60-0	Nitrobenzene-d5	85.7		18 - 107	86%	SPK: 100
321-60-8	2-Fluorobiphenyl	83.9		20 - 109	84%	SPK: 100
118-79-6	2,4,6-Tribromophenol	135		10 - 116	90%	SPK: 150
1718-51-0	Terphenyl-d14	87.9		10 - 105	88%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	134000	6.887			
1146-65-2	Naphthalene-d8	523000	8.169			

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Report of Analysis

Client:	Chemtech Consulting Group			Date Collected:	
Project:	NJ Soil PT			Date Received:	
Client Sample ID:	PB164401BS			SDG No.:	P4495
Lab Sample ID:	PB164401BS			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
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
BF140052.D	1	10/25/24 09:50	10/26/24 11:34	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
15067-26-2	Acenaphthene-d10	287000	9.928			
1517-22-2	Phenanthrene-d10	515000	11.416			
1719-03-5	Chrysene-d12	290000	14.057			
1520-96-3	Perylene-d12	271000	15.527			

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:	Chemtech Consulting Group	Date Collected:	10/24/24
Project:	NJ Soil PT	Date Received:	10/24/24
Client Sample ID:	BP-F-20MS	SDG No.:	P4495
Lab Sample ID:	P4547-05MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	50.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140057.D	1	10/25/24 09:50	10/26/24 13:58	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
62-75-9	n-Nitrosodimethylamine	940		60.1	230	ug/Kg
110-86-1	Pyridine	930		55.3	120	ug/Kg
100-52-7	Benzaldehyde	280		130	230	ug/Kg
62-53-3	Aniline	570		67.0	120	ug/Kg
108-95-2	Phenol	970		57.4	120	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	940		57.9	120	ug/Kg
95-57-8	2-Chlorophenol	1000		57.8	120	ug/Kg
95-50-1	1,2-Dichlorobenzene	980		58.5	120	ug/Kg
541-73-1	1,3-Dichlorobenzene	930		59.5	120	ug/Kg
106-46-7	1,4-Dichlorobenzene	940		59.8	120	ug/Kg
100-51-6	Benzyl Alcohol	1000		57.4	230	ug/Kg
95-48-7	2-Methylphenol	970		55.8	120	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	910		62.9	120	ug/Kg
98-86-2	Acetophenone	920		60.1	120	ug/Kg
65794-96-9	3+4-Methylphenols	940		55.2	230	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	950		27.9	55.3	ug/Kg
67-72-1	Hexachloroethane	960		57.4	120	ug/Kg
98-95-3	Nitrobenzene	930		62.8	120	ug/Kg
78-59-1	Isophorone	980		58.5	120	ug/Kg
88-75-5	2-Nitrophenol	1200		65.4	120	ug/Kg
105-67-9	2,4-Dimethylphenol	1100		64.5	120	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	950		59.4	120	ug/Kg
120-83-2	2,4-Dichlorophenol	990		52.2	120	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	930		59.1	120	ug/Kg
65-85-0	Benzoic acid	890		160	230	ug/Kg
91-20-3	Naphthalene	940		57.1	120	ug/Kg
106-47-8	4-Chloroaniline	170		57.1	120	ug/Kg
87-68-3	Hexachlorobutadiene	960		57.6	120	ug/Kg
105-60-2	Caprolactam	990		60.1	230	ug/Kg

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/24/24
Project:	NJ Soil PT	Date Received:	10/24/24
Client Sample ID:	BP-F-20MS	SDG No.:	P4495
Lab Sample ID:	P4547-05MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	50.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140057.D	1	10/25/24 09:50	10/26/24 13:58	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
59-50-7	4-Chloro-3-methylphenol	990		53.6	120	ug/Kg
91-57-6	2-Methylnaphthalene	980		57.1	120	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3100	E	110	230	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1000		49.4	120	ug/Kg
95-95-4	2,4,5-Trichlorophenol	970		51.2	120	ug/Kg
92-52-4	1,1-Biphenyl	940		60.5	120	ug/Kg
91-58-7	2-Chloronaphthalene	940		57.6	120	ug/Kg
88-74-4	2-Nitroaniline	1100		65.7	120	ug/Kg
131-11-3	Dimethylphthalate	990		56.5	120	ug/Kg
208-96-8	Acenaphthylene	1000		59.8	120	ug/Kg
606-20-2	2,6-Dinitrotoluene	1000		57.6	120	ug/Kg
99-09-2	3-Nitroaniline	440		61.7	120	ug/Kg
83-32-9	Acenaphthene	1100		56.1	120	ug/Kg
51-28-5	2,4-Dinitrophenol	2300	E	170	230	ug/Kg
100-02-7	4-Nitrophenol	1900	E	80.3	230	ug/Kg
132-64-9	Dibenzofuran	950		58.4	120	ug/Kg
121-14-2	2,4-Dinitrotoluene	1100		59.6	120	ug/Kg
84-66-2	Diethylphthalate	980		55.4	120	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	970		59.2	120	ug/Kg
86-73-7	Fluorene	940		59.2	120	ug/Kg
100-01-6	4-Nitroaniline	970		74.0	120	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1400		80.9	230	ug/Kg
86-30-6	n-Nitrosodiphenylamine	980		56.5	120	ug/Kg
103-33-3	Azobenzene	1000		55.1	120	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1000		54.6	120	ug/Kg
118-74-1	Hexachlorobenzene	980		58.8	120	ug/Kg
1912-24-9	Atrazine	1200		63.2	120	ug/Kg
87-86-5	Pentachlorophenol	1900	E	53.5	230	ug/Kg
85-01-8	Phenanthrene	960		58.1	120	ug/Kg
120-12-7	Anthracene	1000		58.4	120	ug/Kg
86-74-8	Carbazole	910		55.6	120	ug/Kg

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/24/24
Project:	NJ Soil PT	Date Received:	10/24/24
Client Sample ID:	BP-F-20MS	SDG No.:	P4495
Lab Sample ID:	P4547-05MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	50.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140057.D	1	10/25/24 09:50	10/26/24 13:58	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
84-74-2	Di-n-butylphthalate	1000		58.3	120	ug/Kg
206-44-0	Fluoranthene	870		56.5	120	ug/Kg
92-87-5	Benzidine	1200		110	230	ug/Kg
129-00-0	Pyrene	970		57.4	120	ug/Kg
85-68-7	Butylbenzylphthalate	1300		67.0	120	ug/Kg
91-94-1	3,3-Dichlorobenzidine	520		68.2	230	ug/Kg
56-55-3	Benzo(a)anthracene	990		55.8	120	ug/Kg
218-01-9	Chrysene	950		55.0	120	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1400		63.0	120	ug/Kg
117-84-0	Di-n-octyl phthalate	1200		76.1	230	ug/Kg
205-99-2	Benzo(b)fluoranthene	920		56.1	120	ug/Kg
207-08-9	Benzo(k)fluoranthene	1000		57.1	120	ug/Kg
50-32-8	Benzo(a)pyrene	1100		64.3	120	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	880		54.0	120	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	890		56.2	120	ug/Kg
191-24-2	Benzo(g,h,i)perylene	740		55.4	120	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	960		60.1	120	ug/Kg
123-91-1	1,4-Dioxane	890		76.1	120	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1000		51.7	120	ug/Kg
90-12-0	1-Methylnaphthalene	930		57.6	120	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	90.8		18 - 112	61%	SPK: 150
13127-88-3	Phenol-d6	91.2		15 - 107	61%	SPK: 150
4165-60-0	Nitrobenzene-d5	66.4		18 - 107	66%	SPK: 100
321-60-8	2-Fluorobiphenyl	61.5		20 - 109	61%	SPK: 100
118-79-6	2,4,6-Tribromophenol	106		10 - 116	71%	SPK: 150
1718-51-0	Terphenyl-d14	68.7		10 - 105	69%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	142000	6.887			
1146-65-2	Naphthalene-d8	557000	8.169			

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/24/24
Project:	NJ Soil PT	Date Received:	10/24/24
Client Sample ID:	BP-F-20MS	SDG No.:	P4495
Lab Sample ID:	P4547-05MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	50.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140057.D	1	10/25/24 09:50	10/26/24 13:58	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
15067-26-2	Acenaphthene-d10	317000	9.928			
1517-22-2	Phenanthrene-d10	543000	11.416			
1719-03-5	Chrysene-d12	261000	14.051			
1520-96-3	Perylene-d12	285000	15.527			

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:	Chemtech Consulting Group	Date Collected:	10/24/24
Project:	NJ Soil PT	Date Received:	10/24/24
Client Sample ID:	BP-F-20MSD	SDG No.:	P4495
Lab Sample ID:	P4547-05MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	50.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140058.D	1	10/25/24 09:50	10/26/24 14:27	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
62-75-9	n-Nitrosodimethylamine	900		60.1	230	ug/Kg
110-86-1	Pyridine	880		55.3	120	ug/Kg
100-52-7	Benzaldehyde	280		130	230	ug/Kg
62-53-3	Aniline	580		67.1	120	ug/Kg
108-95-2	Phenol	990		57.4	120	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	970		58.0	120	ug/Kg
95-57-8	2-Chlorophenol	1000		57.8	120	ug/Kg
95-50-1	1,2-Dichlorobenzene	980		58.6	120	ug/Kg
541-73-1	1,3-Dichlorobenzene	950		59.5	120	ug/Kg
106-46-7	1,4-Dichlorobenzene	970		59.9	120	ug/Kg
100-51-6	Benzyl Alcohol	1000		57.5	230	ug/Kg
95-48-7	2-Methylphenol	990		55.8	120	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	920		62.9	120	ug/Kg
98-86-2	Acetophenone	930		60.2	120	ug/Kg
65794-96-9	3+4-Methylphenols	960		55.3	230	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	960		27.9	55.4	ug/Kg
67-72-1	Hexachloroethane	970		57.5	120	ug/Kg
98-95-3	Nitrobenzene	940		62.9	120	ug/Kg
78-59-1	Isophorone	990		58.6	120	ug/Kg
88-75-5	2-Nitrophenol	1200		65.4	120	ug/Kg
105-67-9	2,4-Dimethylphenol	1100		64.5	120	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	970		59.4	120	ug/Kg
120-83-2	2,4-Dichlorophenol	990		52.3	120	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	930		59.1	120	ug/Kg
65-85-0	Benzoic acid	900		160	230	ug/Kg
91-20-3	Naphthalene	950		57.2	120	ug/Kg
106-47-8	4-Chloroaniline	170		57.2	120	ug/Kg
87-68-3	Hexachlorobutadiene	990		57.7	120	ug/Kg
105-60-2	Caprolactam	1000		60.1	230	ug/Kg

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/24/24
Project:	NJ Soil PT	Date Received:	10/24/24
Client Sample ID:	BP-F-20MSD	SDG No.:	P4495
Lab Sample ID:	P4547-05MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	50.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140058.D	1	10/25/24 09:50	10/26/24 14:27	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
59-50-7	4-Chloro-3-methylphenol	1000		53.7	120	ug/Kg
91-57-6	2-Methylnaphthalene	980		57.1	120	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3100	E	110	230	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1000		49.4	120	ug/Kg
95-95-4	2,4,5-Trichlorophenol	990		51.2	120	ug/Kg
92-52-4	1,1-Biphenyl	950		60.5	120	ug/Kg
91-58-7	2-Chloronaphthalene	940		57.7	120	ug/Kg
88-74-4	2-Nitroaniline	1100		65.8	120	ug/Kg
131-11-3	Dimethylphthalate	1000		56.6	120	ug/Kg
208-96-8	Acenaphthylene	1000		59.9	120	ug/Kg
606-20-2	2,6-Dinitrotoluene	1000		57.6	120	ug/Kg
99-09-2	3-Nitroaniline	450		61.8	120	ug/Kg
83-32-9	Acenaphthene	1100		56.2	120	ug/Kg
51-28-5	2,4-Dinitrophenol	2400	E	170	230	ug/Kg
100-02-7	4-Nitrophenol	2000	E	80.3	230	ug/Kg
132-64-9	Dibenzofuran	980		58.4	120	ug/Kg
121-14-2	2,4-Dinitrotoluene	1100		59.7	120	ug/Kg
84-66-2	Diethylphthalate	990		55.5	120	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	980		59.3	120	ug/Kg
86-73-7	Fluorene	950		59.2	120	ug/Kg
100-01-6	4-Nitroaniline	1000		74.1	120	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1400		81.0	230	ug/Kg
86-30-6	n-Nitrosodiphenylamine	990		56.5	120	ug/Kg
103-33-3	Azobenzene	1000		55.1	120	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1000		54.6	120	ug/Kg
118-74-1	Hexachlorobenzene	990		58.9	120	ug/Kg
1912-24-9	Atrazine	1200		63.3	120	ug/Kg
87-86-5	Pentachlorophenol	1900	E	53.5	230	ug/Kg
85-01-8	Phenanthrene	970		58.2	120	ug/Kg
120-12-7	Anthracene	1000		58.4	120	ug/Kg
86-74-8	Carbazole	910		55.6	120	ug/Kg

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/24/24
Project:	NJ Soil PT	Date Received:	10/24/24
Client Sample ID:	BP-F-20MSD	SDG No.:	P4495
Lab Sample ID:	P4547-05MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	50.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140058.D	1	10/25/24 09:50	10/26/24 14:27	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
84-74-2	Di-n-butylphthalate	1000		58.4	120	ug/Kg
206-44-0	Fluoranthene	890		56.6	120	ug/Kg
92-87-5	Benzidine	1300		110	230	ug/Kg
129-00-0	Pyrene	980		57.5	120	ug/Kg
85-68-7	Butylbenzylphthalate	1300		67.0	120	ug/Kg
91-94-1	3,3-Dichlorobenzidine	530		68.3	230	ug/Kg
56-55-3	Benzo(a)anthracene	1000		55.9	120	ug/Kg
218-01-9	Chrysene	970		55.0	120	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		63.0	120	ug/Kg
117-84-0	Di-n-octyl phthalate	1300		76.2	230	ug/Kg
205-99-2	Benzo(b)fluoranthene	920		56.2	120	ug/Kg
207-08-9	Benzo(k)fluoranthene	1000		57.2	120	ug/Kg
50-32-8	Benzo(a)pyrene	1100		64.4	120	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	890		54.1	120	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	890		56.2	120	ug/Kg
191-24-2	Benzo(g,h,i)perylene	740		55.5	120	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	960		60.1	120	ug/Kg
123-91-1	1,4-Dioxane	860		76.2	120	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1000		51.7	120	ug/Kg
90-12-0	1-Methylnaphthalene	940		57.6	120	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	90.8		18 - 112	61%	SPK: 150
13127-88-3	Phenol-d6	91.9		15 - 107	61%	SPK: 150
4165-60-0	Nitrobenzene-d5	66.5		18 - 107	66%	SPK: 100
321-60-8	2-Fluorobiphenyl	61.6		20 - 109	62%	SPK: 100
118-79-6	2,4,6-Tribromophenol	109		10 - 116	73%	SPK: 150
1718-51-0	Terphenyl-d14	70.4		10 - 105	70%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	142000	6.887			
1146-65-2	Naphthalene-d8	562000	8.169			

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/24/24
Project:	NJ Soil PT	Date Received:	10/24/24
Client Sample ID:	BP-F-20MSD	SDG No.:	P4495
Lab Sample ID:	P4547-05MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	50.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140058.D	1	10/25/24 09:50	10/26/24 14:27	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
15067-26-2	Acenaphthene-d10	322000	9.928			
1517-22-2	Phenanthrene-d10	560000	11.416			
1719-03-5	Chrysene-d12	269000	14.051			
1520-96-3	Perylene-d12	302000	15.527			

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

Alliance TECHNICAL GROUP
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6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Instrument ID: BNA_F Calibration Date(s): 10/18/2024 10/18/2024

Calibration Time(s): 10:27 13:46

LAB FILE ID: RRF2.5 = BF139844.D RRF005 = BF139845.D RRF010 = BF139846.D
RRF020 = BF139847.D RRF040 = BF139848.D RRF050 = BF139849.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		0.815	0.800	0.799	0.806	0.782	0.793	2.4
Pyridine		1.622	1.570	1.522	1.504	1.386	1.476	7.3
2-Fluorophenol		1.465	1.398	1.331	1.278	1.179	1.278	10.1
Benzaldehyde			1.137	1.042	0.940	0.873	0.931	15.2
Aniline		1.673	1.649	1.618	1.582	1.471	1.542	8.1
Phenol-d6		1.900	1.818	1.709	1.647	1.538	1.655	10.1
Phenol		1.952	1.832	1.760	1.712	1.583	1.706	9.2
bis(2-Chloroethyl)ether		1.470	1.423	1.359	1.294	1.251	1.319	7.8
2-Chlorophenol		1.503	1.422	1.358	1.310	1.212	1.306	10.2
1,2-Dichlorobenzene		1.660	1.579	1.478	1.379	1.273	1.398	13.2
1,3-Dichlorobenzene		1.718	1.656	1.544	1.499	1.392	1.499	10.2
1,4-Dichlorobenzene		1.723	1.641	1.558	1.487	1.392	1.498	10.2
Benzyl Alcohol		1.355	1.299	1.257	1.213	1.154	1.214	8.1
2-Methylphenol		1.264	1.164	1.134	1.114	1.053	1.114	7.7
2,2-oxybis(1-Chloropropane)		2.524	2.409	2.353	2.255	2.117	2.248	8.7
Acetophenone		0.578	0.533	0.516	0.481	0.452	0.490	11.4
3+4-Methylphenols		1.678	1.573	1.520	1.418	1.309	1.424	12.4
n-Nitroso-di-n-propylamine	1.105	1.141	1.066	1.025	0.974	0.921	1.004	9.6
Nitrobenzene-d5		0.365	0.365	0.372	0.371	0.354	0.361	2.9
Hexachloroethane		0.583	0.571	0.549	0.541	0.507	0.534	7.1
Nitrobenzene		0.417	0.402	0.408	0.403	0.383	0.396	4.1
Isophorone		0.755	0.709	0.702	0.679	0.652	0.685	5.9
2-Nitrophenol		0.124	0.137	0.150	0.157	0.158	0.149	9.2
2,4-Dimethylphenol		0.285	0.259	0.256	0.248	0.237	0.249	8.1
bis(2-Chloroethoxy)methane		0.468	0.440	0.432	0.412	0.394	0.415	8.2
2,4-Dichlorophenol		0.308	0.297	0.293	0.283	0.272	0.283	6.2
1,2,4-Trichlorobenzene		0.351	0.331	0.325	0.315	0.298	0.314	7.7
Benzoic acid			0.175	0.207	0.220	0.231	0.217	10.7
Naphthalene		1.209	1.121	1.091	1.023	0.958	1.031	11.2
4-Chloroaniline		0.397	0.382	0.368	0.351	0.332	0.352	9.3
Hexachlorobutadiene		0.224	0.206	0.203	0.197	0.185	0.197	8.0
Caprolactam		0.092	0.092	0.092	0.092	0.088	0.090	2.9
4-Chloro-3-methylphenol		0.341	0.328	0.324	0.315	0.299	0.314	6.0
2-Methylnaphthalene		0.740	0.689	0.666	0.621	0.587	0.632	11.1

All other compounds must meet a minimum RRF of 0.010.

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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Instrument ID: BNA_F Calibration Date(s): 10/18/2024 10/18/2024

Calibration Time(s): 10:27 13:46

LAB FILE ID: RRF2.5 = BF139844.D RRF005 = BF139845.D RRF010 = BF139846.D
RRF020 = BF139847.D RRF040 = BF139848.D RRF050 = BF139849.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Hexachlorocyclopentadiene		0.185	0.193	0.198	0.198	0.186	0.188	5.3
2,4,6-Trichlorophenol		0.405	0.382	0.400	0.387	0.363	0.382	4.8
2-Fluorobiphenyl		1.512	1.396	1.280	1.162	1.088	1.210	16.0
2,4,5-Trichlorophenol		0.426	0.425	0.398	0.401	0.381	0.394	6.6
1,1-Biphenyl		1.640	1.536	1.483	1.379	1.285	1.392	12.2
2-Chloronaphthalene		1.288	1.225	1.164	1.111	1.048	1.121	10.0
2-Nitroaniline		0.299	0.318	0.353	0.365	0.354	0.343	7.2
Dimethylphthalate		1.410	1.344	1.283	1.237	1.172	1.246	8.6
Acenaphthylene		1.854	1.756	1.717	1.615	1.507	1.621	10.1
2,6-Dinitrotoluene		0.256	0.266	0.278	0.280	0.273	0.270	3.4
3-Nitroaniline		0.270	0.275	0.296	0.292	0.276	0.278	4.8
Acenaphthene		1.200	1.136	1.089	1.044	0.977	1.049	9.5
2,4-Dinitrophenol			0.056	0.077	0.101	0.101	0.093	23.9
4-Nitrophenol		0.187	0.207	0.225	0.232	0.219	0.214	6.8
Dibenzofuran		1.767	1.659	1.579	1.486	1.389	1.505	11.5
2,4-Dinitrotoluene		0.280	0.314	0.337	0.356	0.344	0.332	7.9
Diethylphthalate		1.366	1.308	1.267	1.214	1.165	1.223	8.0
4-Chlorophenyl-phenylether		0.698	0.638	0.617	0.569	0.526	0.579	13.1
Fluorene		1.409	1.309	1.201	1.110	1.029	1.146	14.7
4-Nitroaniline		0.249	0.259	0.270	0.275	0.263	0.263	3.6
4,6-Dinitro-2-methylphenol			0.055	0.072	0.087	0.090	0.082	18.6
n-Nitrosodiphenylamine		0.672	0.641	0.621	0.595	0.568	0.599	8.1
Azobenzene		1.459	1.385	1.355	1.306	1.216	1.297	8.6
2,4,6-Tribromophenol		0.201	0.196	0.193	0.188	0.179	0.187	5.5
4-Bromophenyl-phenylether		0.230	0.217	0.211	0.202	0.197	0.206	7.0
Hexachlorobenzene		0.258	0.245	0.237	0.231	0.217	0.232	7.2
Atrazine		0.189	0.175	0.156	0.175	0.135	0.162	11.4
Pentachlorophenol		0.118	0.137	0.148	0.152	0.145	0.141	8.0
Phenanthrene		1.121	1.035	0.994	0.933	0.863	0.945	11.8
Anthracene		1.082	1.014	0.972	0.913	0.851	0.922	11.5
Carbazole		1.002	0.964	0.923	0.846	0.776	0.857	12.6
Di-n-butylphthalate		1.104	1.071	1.062	1.014	0.923	0.990	9.8
Fluoranthene		1.149	1.108	1.036	0.943	0.842	0.955	15.3
Benzidine		0.457	0.461	0.293	0.366	0.276	0.329	30.9
Pyrene		1.892	1.828	1.900	1.805	1.685	1.751	8.4

All other compounds must meet a minimum RRF of 0.010.

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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Instrument ID: BNA_F Calibration Date(s): 10/18/2024 10/18/2024

Calibration Time(s): 10:27 13:46

LAB FILE ID: RRF2.5 = BF139844.D RRF005 = BF139845.D RRF010 = BF139846.D
RRF020 = BF139847.D RRF040 = BF139848.D RRF050 = BF139849.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Terphenyl-d14		1.381	1.335	1.340	1.244	1.154	1.227	11.0
Butylbenzylphthalate		0.490	0.513	0.536	0.555	0.535	0.525	4.0
3,3-Dichlorobenzidine		0.368	0.372	0.390	0.387	0.374	0.380	2.2
Benzo(a)anthracene		1.425	1.355	1.329	1.331	1.267	1.302	6.5
Chrysene		1.325	1.244	1.234	1.167	1.134	1.194	6.5
Bis(2-ethylhexyl)phthalate		0.520	0.539	0.577	0.626	0.620	0.589	7.5
Di-n-octyl phthalate			0.786	0.930	1.135	1.182	1.071	16.1
Benzo(b)fluoranthene		1.317	1.240	1.319	1.196	1.105	1.218	7.1
Benzo(k)fluoranthene		1.213	1.177	0.992	1.066	1.030	1.051	10.4
Benzo(a)pyrene		1.030	1.024	1.018	1.025	0.974	1.002	3.1
Indeno(1,2,3-cd)pyrene		1.209	1.261	1.307	1.352	1.299	1.287	3.8
Dibenzo(a,h)anthracene		1.021	1.064	1.103	1.120	1.083	1.073	3.3
Benzo(g,h,i)perylene		1.030	1.046	1.090	1.128	1.081	1.072	3.4
1,2,4,5-Tetrachlorobenzene		0.609	0.579	0.562	0.537	0.512	0.540	8.7
1,4-Dioxane		0.651	0.625	0.603	0.591	0.571	0.596	5.7
2,3,4,6-Tetrachlorophenol		0.334	0.322	0.326	0.310	0.296	0.309	6.3
1-Methylnaphthalene		0.726	0.683	0.655	0.612	0.569	0.620	11.5

All other compounds must meet a minimum RRF of 0.010.

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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Instrument ID: BNA_F Calibration Date(s): 11/13/2024 11/13/2024

Calibration Time(s): 09:01 12:48

LAB FILE ID: RRF2.5 = BF140332.D RRF005 = BF140333.D RRF010 = BF140334.D
RRF020 = BF140335.D RRF050 = BF140337.D RRF060 = BF140338.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF050	RRF060	RRF	% RSD
n-Nitrosodimethylamine		0.658	0.632	0.651	0.644	0.671	0.649	2.4
Pyridine		1.430	1.343	1.323	1.189	1.237	1.283	7.6
2-Fluorophenol		1.329	1.257	1.223	1.090	1.118	1.171	8.8
Benzaldehyde		1.101	1.087	1.017	0.828	0.783	0.951	14.3
Aniline		1.587	1.527	1.495	1.267	1.270	1.381	13.4
Phenol-d6		1.773	1.691	1.643	1.483	1.507	1.587	8.1
Phenol		1.799	1.793	1.743	1.582	1.597	1.674	7.3
bis(2-Chloroethyl)ether		1.359	1.294	1.306	1.227	1.249	1.268	4.6
2-Chlorophenol		1.397	1.349	1.332	1.176	1.184	1.258	8.5
1,2-Dichlorobenzene		1.494	1.429	1.398	1.212	1.214	1.307	10.6
1,3-Dichlorobenzene		1.585	1.475	1.454	1.291	1.317	1.388	9.0
1,4-Dichlorobenzene		1.590	1.534	1.486	1.306	1.326	1.408	9.5
Benzyl Alcohol		1.172	1.193	1.199	1.100	1.108	1.143	6.1
2-Methylphenol		1.092	1.062	1.072	0.998	1.016	1.035	5.1
2,2-oxybis(1-Chloropropane)		1.906	1.826	1.815	1.666	1.684	1.752	7.0
Acetophenone		0.532	0.508	0.481	0.434	0.441	0.465	9.4
3+4-Methylphenols		1.436	1.427	1.359	1.200	1.198	1.295	10.2
n-Nitroso-di-n-propylamine	1.032	1.029	1.003	0.986	0.883	0.905	0.959	7.3
Nitrobenzene-d5		0.411	0.401	0.399	0.368	0.379	0.384	5.3
Hexachloroethane		0.562	0.543	0.550	0.500	0.506	0.520	6.3
Nitrobenzene		0.423	0.421	0.406	0.390	0.394	0.400	4.6
Isophorone		0.736	0.702	0.692	0.654	0.671	0.680	4.9
2-Nitrophenol		0.175	0.179	0.181	0.175	0.181	0.177	2.0
2,4-Dimethylphenol		0.238	0.236	0.232	0.221	0.227	0.227	3.9
bis(2-Chloroethoxy)methane		0.461	0.442	0.430	0.398	0.404	0.417	6.8
2,4-Dichlorophenol		0.307	0.296	0.287	0.272	0.272	0.281	6.2
1,2,4-Trichlorobenzene		0.346	0.331	0.325	0.298	0.301	0.312	7.1
Benzoic acid		0.162	0.178	0.180	0.215	0.226	0.200	13.0
Naphthalene		1.160	1.105	1.064	0.950	0.955	1.015	9.6
4-Chloroaniline		0.390	0.386	0.370	0.333	0.340	0.353	8.4
Hexachlorobutadiene		0.220	0.214	0.210	0.188	0.190	0.199	7.7
Caprolactam		0.098	0.093	0.094	0.091	0.095	0.093	3.3
4-Chloro-3-methylphenol		0.331	0.327	0.320	0.299	0.304	0.311	5.1
2-Methylnaphthalene		0.751	0.706	0.683	0.610	0.607	0.651	10.0

All other compounds must meet a minimum RRF of 0.010.

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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Instrument ID: BNA_F Calibration Date(s): 11/13/2024 11/13/2024

Calibration Time(s): 09:01 12:48

LAB FILE ID: RRF2.5 = BF140332.D RRF005 = BF140333.D RRF010 = BF140334.D
RRF020 = BF140335.D RRF050 = BF140337.D RRF060 = BF140338.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF050	RRF060	RRF	% RSD
Hexachlorocyclopentadiene			0.111	0.143	0.156	0.159	0.142	12.0
2,4,6-Trichlorophenol		0.380	0.374	0.374	0.360	0.352	0.363	3.9
2-Fluorobiphenyl		1.524	1.396	1.351	1.125	1.110	1.244	14.5
2,4,5-Trichlorophenol		0.421	0.417	0.412	0.387	0.390	0.397	5.4
1,1-Biphenyl		1.690	1.571	1.565	1.368	1.343	1.455	10.8
2-Chloronaphthalene		1.279	1.182	1.149	1.064	1.049	1.108	9.2
2-Nitroaniline		0.378	0.365	0.384	0.365	0.366	0.368	2.9
Dimethylphthalate		1.464	1.358	1.371	1.246	1.244	1.304	7.5
Acenaphthylene		1.940	1.802	1.786	1.582	1.552	1.677	10.3
2,6-Dinitrotoluene		0.317	0.303	0.313	0.291	0.289	0.297	5.6
3-Nitroaniline		0.333	0.327	0.335	0.307	0.298	0.312	6.9
Acenaphthene		1.259	1.204	1.192	1.091	1.079	1.133	7.8
2,4-Dinitrophenol			0.109	0.148	0.178	0.170	0.153	16.3
4-Nitrophenol		0.199	0.217	0.239	0.240	0.237	0.228	6.7
Dibenzofuran		1.904	1.736	1.715	1.502	1.466	1.603	11.9
2,4-Dinitrotoluene		0.414	0.400	0.417	0.387	0.382	0.391	5.8
Diethylphthalate		1.525	1.417	1.398	1.272	1.246	1.333	8.8
4-Chlorophenyl-phenylether		0.739	0.688	0.669	0.583	0.567	0.625	12.0
Fluorene		1.525	1.403	1.365	1.168	1.137	1.267	13.1
4-Nitroaniline		0.335	0.325	0.328	0.316	0.313	0.319	3.9
4,6-Dinitro-2-methylphenol		0.080	0.098	0.113	0.117	0.120	0.108	13.0
n-Nitrosodiphenylamine		0.651	0.630	0.600	0.541	0.541	0.578	8.6
Azobenzene		1.498	1.391	1.380	1.251	1.244	1.317	8.6
2,4,6-Tribromophenol		0.220	0.211	0.207	0.191	0.189	0.199	6.9
4-Bromophenyl-phenylether		0.227	0.210	0.209	0.191	0.188	0.200	8.1
Hexachlorobenzene		0.251	0.242	0.232	0.209	0.215	0.225	7.5
Atrazine		0.191	0.183	0.135	0.155	0.205	0.175	17.0
Pentachlorophenol		0.097	0.108	0.124	0.131	0.130	0.121	10.9
Phenanthrene		1.096	1.053	0.986	0.868	0.851	0.940	11.3
Anthracene		1.071	1.018	0.966	0.860	0.839	0.921	10.8
Carbazole		1.053	1.009	0.963	0.846	0.834	0.909	11.0
Di-n-butylphthalate		1.214	1.177	1.150	1.036	1.023	1.091	8.4
Fluoranthene		1.256	1.201	1.141	0.962	0.933	1.054	13.9
Benzidine			0.634	0.684	0.742	0.953	0.768	18.6
Pyrene		1.748	1.706	1.643	1.728	1.800	1.711	3.1

All other compounds must meet a minimum RRF of 0.010.

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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Instrument ID: BNA_F Calibration Date(s): 11/13/2024 11/13/2024

Calibration Time(s): 09:01 12:48

LAB FILE ID: RRF2.5 = BF140332.D RRF005 = BF140333.D RRF010 = BF140334.D
RRF020 = BF140335.D RRF050 = BF140337.D RRF060 = BF140338.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF050	RRF060	RRF	% RSD
Terphenyl-d14		1.226	1.185	1.108	1.139	1.190	1.152	4.3
Butylbenzylphthalate		0.640	0.638	0.654	0.670	0.681	0.657	3.6
3,3-Dichlorobenzidine		0.438	0.431	0.433	0.406	0.416	0.418	3.8
Benzo(a)anthracene		1.451	1.418	1.351	1.229	1.294	1.314	7.3
Chrysene		1.394	1.241	1.235	1.137	1.123	1.199	8.4
Bis(2-ethylhexyl)phthalate		0.886	0.890	0.897	0.858	0.869	0.877	4.1
Di-n-octyl phthalate		1.231	1.217	1.270	1.187	1.241	1.235	2.9
Benzo(b)fluoranthene		1.405	1.352	1.471	1.235	1.233	1.308	7.8
Benzo(k)fluoranthene		1.286	1.241	1.120	0.952	0.935	1.069	14.5
Benzo(a)pyrene		1.100	1.053	1.054	0.970	0.980	1.016	5.4
Indeno(1,2,3-cd)pyrene		1.116	1.150	1.138	1.316	1.354	1.235	8.0
Dibenzo(a,h)anthracene		0.941	0.952	0.944	1.074	1.121	1.021	7.3
Benzo(g,h,i)perylene		0.941	0.963	0.954	1.122	1.146	1.044	8.5
1,2,4,5-Tetrachlorobenzene		0.646	0.585	0.583	0.524	0.517	0.553	9.8
1,4-Dioxane		0.582	0.546	0.530	0.495	0.506	0.522	6.5
2,3,4,6-Tetrachlorophenol		0.322	0.328	0.326	0.308	0.302	0.313	4.6
1-Methylnaphthalene		0.734	0.696	0.673	0.589	0.592	0.637	10.4

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Instrument ID: BNA_F Calibration Date/Time: 10/26/2024 10:38

Lab File ID: BF140050.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
n-Nitrosodimethylamine	0.793	0.741		-6.6	
Pyridine	1.476	1.426		-3.4	
2-Fluorophenol	1.278	1.220		-4.5	
Benzaldehyde	0.931	0.910		-2.3	
Aniline	1.542	1.432		-7.1	
Phenol-d6	1.655	1.531		-7.5	
Phenol	1.706	1.580		-7.4	20.0
bis(2-Chloroethyl)ether	1.319	1.223		-7.3	
2-Chlorophenol	1.306	1.244		-4.7	
1,2-Dichlorobenzene	1.398	1.369		-2.1	
1,3-Dichlorobenzene	1.499	1.477		-1.5	
1,4-Dichlorobenzene	1.498	1.482		-1.1	20.0
Benzyl Alcohol	1.214	1.129		-7.0	
2-Methylphenol	1.114	1.029		-7.6	
2,2-oxybis(1-Chloropropane)	2.248	1.911		-15.0	
Acetophenone	0.490	0.475		-3.1	
3+4-Methylphenols	1.424	1.308		-8.1	
n-Nitroso-di-n-propylamine	1.004	0.873	0.050	-13.0	
Nitrobenzene-d5	0.361	0.380		5.3	
Hexachloroethane	0.534	0.520		-2.6	
Nitrobenzene	0.396	0.399		0.8	
Isophorone	0.685	0.645		-5.8	
2-Nitrophenol	0.149	0.164		10.1	20.0
2,4-Dimethylphenol	0.249	0.232		-6.8	
bis(2-Chloroethoxy)methane	0.415	0.393		-5.3	
2,4-Dichlorophenol	0.283	0.279		-1.4	20.0
1,2,4-Trichlorobenzene	0.314	0.319		1.6	
Benzoic acid	0.217	0.211		-2.8	
Naphthalene	1.031	1.028		-0.3	
4-Chloroaniline	0.352	0.343		-2.6	
Hexachlorobutadiene	0.197	0.204		3.6	20.0
Caprolactam	0.090	0.088		-2.2	
4-Chloro-3-methylphenol	0.314	0.307		-2.2	20.0
2-Methylnaphthalene	0.632	0.618		-2.2	
Hexachlorocyclopentadiene	0.188	0.191	0.050	1.6	
2,4,6-Trichlorophenol	0.382	0.374		-2.1	20.0
2-Fluorobiphenyl	1.210	1.211		0.1	
2,4,5-Trichlorophenol	0.394	0.414		5.1	
1,1-Biphenyl	1.392	1.391		-0.1	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Instrument ID: BNA_F Calibration Date/Time: 10/26/2024 10:38

Lab File ID: BF140050.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Chloronaphthalene	1.121	1.129		0.7	
2-Nitroaniline	0.343	0.375		9.3	
Dimethylphthalate	1.246	1.229		-1.4	
Acenaphthylene	1.621	1.628		0.4	
2,6-Dinitrotoluene	0.270	0.290		7.4	
3-Nitroaniline	0.278	0.298		7.2	
Acenaphthene	1.049	1.058		0.9	20.0
2,4-Dinitrophenol	0.093	0.126	0.050	35.5	
4-Nitrophenol	0.214	0.229	0.050	7.0	
Dibenzofuran	1.505	1.491		-0.9	
2,4-Dinitrotoluene	0.332	0.383		15.4	
Diethylphthalate	1.223	1.181		-3.4	
4-Chlorophenyl-phenylether	0.579	0.581		0.3	
Fluorene	1.146	1.149		0.3	
4-Nitroaniline	0.263	0.289		9.9	
4,6-Dinitro-2-methylphenol	0.082	0.104		26.8	
n-Nitrosodiphenylamine	0.599	0.572		-4.5	20.0
Azobenzene	1.297	1.197		-7.7	
2,4,6-Tribromophenol	0.187	0.204		9.1	
4-Bromophenyl-phenylether	0.206	0.202		-1.9	
Hexachlorobenzene	0.232	0.233		0.4	
Atrazine	0.162	0.156		-3.7	
Pentachlorophenol	0.141	0.152		7.8	20.0
Phenanthrene	0.945	0.913		-3.4	
Anthracene	0.922	0.901		-2.3	
Carbazole	0.857	0.832		-2.9	
Di-n-butylphthalate	0.990	0.946		-4.4	
Fluoranthene	0.955	0.965		1.0	20.0
Benzidine	0.329	0.451		37.1	
Pyrene	1.751	1.811		3.4	
Terphenyl-d14	1.227	1.258		2.5	
Butylbenzylphthalate	0.525	0.551		5.0	
3,3-Dichlorobenzidine	0.380	0.409		7.6	
Benzo(a)anthracene	1.302	1.311		0.7	
Chrysene	1.194	1.157		-3.1	
Bis(2-ethylhexyl)phthalate	0.589	0.606		2.9	
Di-n-octyl phthalate	1.071	0.894		-16.5	20.0
Benzo(b)fluoranthene	1.218	1.154		-5.3	
Benzo(k)fluoranthene	1.051	1.063		1.1	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

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Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Instrument ID: BNA_F Calibration Date/Time: 10/26/2024 10:38

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EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Benzo(a)pyrene	1.002	1.013		1.1	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.303		1.2	
Dibenzo(a,h)anthracene	1.073	1.070		-0.3	
Benzo(g,h,i)perylene	1.072	1.111		3.6	
1,2,4,5-Tetrachlorobenzene	0.540	0.555		2.8	
1,4-Dioxane	0.596	0.584		-2.0	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.315		1.9	
1-Methylnaphthalene	0.620	0.605		-2.4	

All other compounds must meet a minimum RRF of 0.010.