

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	82H-W	SDG No.:	Q2820
Lab Sample ID:	Q2820-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.5
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025380.D	1	08/12/25 09:15	08/13/25 11:59	PB169210

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	320	U	190	320	390	ug/Kg
108-95-2	Phenol	160	U	26.4	160	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	160	U	29.1	160	200	ug/Kg
95-57-8	2-Chlorophenol	160	U	29.2	160	200	ug/Kg
95-48-7	2-Methylphenol	160	U	35.7	160	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	160	U	44.8	160	200	ug/Kg
98-86-2	Acetophenone	160	U	35.3	160	200	ug/Kg
65794-96-9	3+4-Methylphenols	320	U	49.1	320	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	95.6	U	56.7	95.6	95.6	ug/Kg
67-72-1	Hexachloroethane	160	U	21.0	160	200	ug/Kg
98-95-3	Nitrobenzene	160	U	21.9	160	200	ug/Kg
78-59-1	Isophorone	160	U	39.2	160	200	ug/Kg
88-75-5	2-Nitrophenol	160	U	69.6	160	200	ug/Kg
105-67-9	2,4-Dimethylphenol	160	U	77.5	160	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	160	U	36.8	160	200	ug/Kg
120-83-2	2,4-Dichlorophenol	160	U	33.8	160	200	ug/Kg
91-20-3	Naphthalene	160	U	27.1	160	200	ug/Kg
106-47-8	4-Chloroaniline	160	U	42.3	160	200	ug/Kg
87-68-3	Hexachlorobutadiene	160	U	30.2	160	200	ug/Kg
105-60-2	Caprolactam	320	U	62.3	320	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	160	U	34.3	160	200	ug/Kg
91-57-6	2-Methylnaphthalene	160	U	30.6	160	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	320	U	140	320	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	160	U	23.7	160	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	160	U	34.8	160	200	ug/Kg
92-52-4	1,1-Biphenyl	160	U	26.1	160	200	ug/Kg
91-58-7	2-Chloronaphthalene	160	U	26.9	160	200	ug/Kg
88-74-4	2-Nitroaniline	160	U	57.5	160	200	ug/Kg
131-11-3	Dimethylphthalate	160	U	32.4	160	200	ug/Kg

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208-96-8	Acenaphthylene	160	U	34.6	160	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	160	U	40.2	160	200	ug/Kg
99-09-2	3-Nitroaniline	160	U	55.0	160	200	ug/Kg
83-32-9	Acenaphthene	160	U	25.5	160	200	ug/Kg
51-28-5	2,4-Dinitrophenol	320	U	270	320	390	ug/Kg
100-02-7	4-Nitrophenol	320	U	130	320	390	ug/Kg
132-64-9	Dibenzofuran	160	U	27.1	160	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	160	U	59.9	160	200	ug/Kg
84-66-2	Diethylphthalate	160	U	33.8	160	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	160	U	31.9	160	200	ug/Kg
86-73-7	Fluorene	160	U	30.2	160	200	ug/Kg
100-01-6	4-Nitroaniline	160	U	76.8	160	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	320	U	120	320	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	160	U	39.3	160	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	160	U	33.2	160	200	ug/Kg
118-74-1	Hexachlorobenzene	160	U	30.2	160	200	ug/Kg
1912-24-9	Atrazine	160	U	40.7	160	200	ug/Kg
87-86-5	Pentachlorophenol	320	U	61.3	320	390	ug/Kg
85-01-8	Phenanthrene	160	U	25.0	160	200	ug/Kg
120-12-7	Anthracene	160	U	39.8	160	200	ug/Kg
86-74-8	Carbazole	160	U	37.3	160	200	ug/Kg
84-74-2	Di-n-butylphthalate	160	U	57.3	160	200	ug/Kg
206-44-0	Fluoranthene	160	U	35.9	160	200	ug/Kg
129-00-0	Pyrene	160	U	43.0	160	200	ug/Kg
85-68-7	Butylbenzylphthalate	160	U	85.4	160	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	320	U	43.9	320	390	ug/Kg
56-55-3	Benzo(a)anthracene	160	U	27.5	160	200	ug/Kg
218-01-9	Chrysene	160	U	23.8	160	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	160	U	70.8	160	200	ug/Kg
117-84-0	Di-n-octyl phthalate	320	U	100	320	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	160	U	22.7	160	200	ug/Kg

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207-08-9	Benzo(k)fluoranthene	160	U	26.8	160	200	ug/Kg
50-32-8	Benzo(a)pyrene	160	U	35.3	160	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	160	U	34.8	160	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	160	U	32.8	160	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	160	U	30.7	160	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	160	U	30.6	160	200	ug/Kg
123-91-1	1,4-Dioxane	160	U	54.0	160	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	160	U	32.8	160	200	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	77.3		35 - 115		52%	SPK: 150
13127-88-3	Phenol-d6	72.6		34 - 127		48%	SPK: 150
4165-60-0	Nitrobenzene-d5	52.5		37 - 122		52%	SPK: 100
321-60-8	2-Fluorobiphenyl	45.8		44 - 115		46%	SPK: 100
118-79-6	2,4,6-Tribromophenol	106		39 - 132		70%	SPK: 150
1718-51-0	Terphenyl-d14	45.5	*	54 - 127		46%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	172000	7.802
1146-65-2	Naphthalene-d8	681000	10.572
15067-26-2	Acenaphthene-d10	418000	14.419
1517-22-2	Phenanthrene-d10	829000	17.225
1719-03-5	Chrysene-d12	902000	21.677
1520-96-3	Perylene-d12	1040000	25.071

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	890	J		3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	200	AB		4.95	ug/Kg
000119-61-9	Benzophenone	190	J		15.8	ug/Kg
	unknown16.354	120	J		16.4	ug/Kg
	unknown16.619	110	J		16.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	920	J		18.2	ug/Kg
087345-53-7	3,5-Dimethoxy-4-hydroxycinnamaldehyde	82.9	J		18.4	ug/Kg

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020675-96-1	trans-Sinapyl alcohol	170	J			18.5	ug/Kg
000057-11-4	Octadecanoic acid	230	J			19.5	ug/Kg
018835-33-1	1-Hexacosene	220	J			21.4	ug/Kg

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products