

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-N	SDG No.:	Q2820
Lab Sample ID:	Q2820-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.4
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025387.D	1	08/12/25 09:15	08/13/25 16:50	PB169210

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	310	U	180	310	380	ug/Kg
108-95-2	Phenol	150	U	25.3	150	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	150	U	27.8	150	190	ug/Kg
95-57-8	2-Chlorophenol	150	U	27.9	150	190	ug/Kg
95-48-7	2-Methylphenol	150	U	34.2	150	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	150	U	42.9	150	190	ug/Kg
98-86-2	Acetophenone	150	U	33.7	150	190	ug/Kg
65794-96-9	3+4-Methylphenols	310	U	47.0	310	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	91.4	U	54.2	91.4	91.4	ug/Kg
67-72-1	Hexachloroethane	150	U	20.1	150	190	ug/Kg
98-95-3	Nitrobenzene	150	U	20.9	150	190	ug/Kg
78-59-1	Isophorone	150	U	37.5	150	190	ug/Kg
88-75-5	2-Nitrophenol	150	U	66.5	150	190	ug/Kg
105-67-9	2,4-Dimethylphenol	150	U	74.1	150	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	150	U	35.2	150	190	ug/Kg
120-83-2	2,4-Dichlorophenol	150	U	32.3	150	190	ug/Kg
91-20-3	Naphthalene	150	U	25.9	150	190	ug/Kg
106-47-8	4-Chloroaniline	150	U	40.5	150	190	ug/Kg
87-68-3	Hexachlorobutadiene	150	U	28.9	150	190	ug/Kg
105-60-2	Caprolactam	310	U	59.6	310	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	150	U	32.8	150	190	ug/Kg
91-57-6	2-Methylnaphthalene	150	U	29.3	150	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	310	U	130	310	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	150	U	22.6	150	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	150	U	33.3	150	190	ug/Kg
92-52-4	1,1-Biphenyl	150	U	24.9	150	190	ug/Kg
91-58-7	2-Chloronaphthalene	150	U	25.7	150	190	ug/Kg
88-74-4	2-Nitroaniline	150	U	55.0	150	190	ug/Kg
131-11-3	Dimethylphthalate	150	U	31.0	150	190	ug/Kg

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208-96-8	Acenaphthylene	150	U	33.0	150	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	150	U	38.4	150	190	ug/Kg
99-09-2	3-Nitroaniline	150	U	52.6	150	190	ug/Kg
83-32-9	Acenaphthene	150	U	24.3	150	190	ug/Kg
51-28-5	2,4-Dinitrophenol	310	U	260	310	380	ug/Kg
100-02-7	4-Nitrophenol	310	U	120	310	380	ug/Kg
132-64-9	Dibenzofuran	150	U	25.9	150	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	150	U	57.3	150	190	ug/Kg
84-66-2	Diethylphthalate	150	U	32.3	150	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	150	U	30.5	150	190	ug/Kg
86-73-7	Fluorene	150	U	28.9	150	190	ug/Kg
100-01-6	4-Nitroaniline	150	U	73.4	150	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	310	U	120	310	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	150	U	37.6	150	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	150	U	31.8	150	190	ug/Kg
118-74-1	Hexachlorobenzene	150	U	28.9	150	190	ug/Kg
1912-24-9	Atrazine	150	U	38.9	150	190	ug/Kg
87-86-5	Pentachlorophenol	310	U	58.6	310	380	ug/Kg
85-01-8	Phenanthrene	150	U	23.9	150	190	ug/Kg
120-12-7	Anthracene	150	U	38.1	150	190	ug/Kg
86-74-8	Carbazole	150	U	35.7	150	190	ug/Kg
84-74-2	Di-n-butylphthalate	150	U	54.8	150	190	ug/Kg
206-44-0	Fluoranthene	110	J	34.3	150	190	ug/Kg
129-00-0	Pyrene	87.5	J	41.1	150	190	ug/Kg
85-68-7	Butylbenzylphthalate	150	U	81.6	150	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	310	U	41.9	310	380	ug/Kg
56-55-3	Benzo(a)anthracene	150	U	26.3	150	190	ug/Kg
218-01-9	Chrysene	150	U	22.7	150	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	150	U	67.7	150	190	ug/Kg
117-84-0	Di-n-octyl phthalate	310	U	99.2	310	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	150	U	21.7	150	190	ug/Kg

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50-32-8	Benzo(a)pyrene	150	U	33.7	150	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	150	U	33.3	150	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	150	U	31.3	150	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	150	U	29.4	150	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	150	U	29.3	150	190	ug/Kg
123-91-1	1,4-Dioxane	150	U	51.7	150	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	150	U	31.3	150	190	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	73.7		35 - 115		49%	SPK: 150
13127-88-3	Phenol-d6	66.9		34 - 127		45%	SPK: 150
4165-60-0	Nitrobenzene-d5	52.4		37 - 122		52%	SPK: 100
321-60-8	2-Fluorobiphenyl	49.1		44 - 115		49%	SPK: 100
118-79-6	2,4,6-Tribromophenol	101		39 - 132		67%	SPK: 150
1718-51-0	Terphenyl-d14	46.3	*	54 - 127		46%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	178000	7.796
1146-65-2	Naphthalene-d8	679000	10.566
15067-26-2	Acenaphthene-d10	422000	14.413
1517-22-2	Phenanthrene-d10	845000	17.207
1719-03-5	Chrysene-d12	1030000	21.666
1520-96-3	Perylene-d12	1150000	25.06

TENTATIVE IDENTIFIED COMPOUNDS

013463-40-6	Iron pentacarbonyl	170	J		2.97	ug/Kg
000994-05-8	Butane, 2-methoxy-2-methyl-	970	J		3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	190	AB		4.95	ug/Kg
000119-61-9	Benzophenone	150	J		15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	350	J		18.2	ug/Kg
000057-11-4	Octadecanoic acid	77.0	J		19.5	ug/Kg
1000351-78-2	Heptacosyl acetate	200	J		21.3	ug/Kg

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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