

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	38M-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-16	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.4
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025540.D	2	08/15/25 08:25	08/21/25 14:56	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	580	U	340	580	710	ug/Kg
108-95-2	Phenol	280	U	47.8	280	370	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	280	U	52.6	280	370	ug/Kg
95-57-8	2-Chlorophenol	280	U	52.8	280	370	ug/Kg
95-48-7	2-Methylphenol	280	U	64.7	280	370	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	280	U	81.1	280	370	ug/Kg
98-86-2	Acetophenone	280	U	63.8	280	370	ug/Kg
65794-96-9	3+4-Methylphenols	580	U	88.9	580	710	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	170	U	100	170	170	ug/Kg
67-72-1	Hexachloroethane	280	U	38.1	280	370	ug/Kg
98-95-3	Nitrobenzene	280	U	39.6	280	370	ug/Kg
78-59-1	Isophorone	280	U	70.9	280	370	ug/Kg
88-75-5	2-Nitrophenol	280	U	130	280	370	ug/Kg
105-67-9	2,4-Dimethylphenol	280	U	140	280	370	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	280	U	66.6	280	370	ug/Kg
120-83-2	2,4-Dichlorophenol	280	U	61.2	280	370	ug/Kg
91-20-3	Naphthalene	280	U	49.1	280	370	ug/Kg
106-47-8	4-Chloroaniline	280	U	76.6	280	370	ug/Kg
87-68-3	Hexachlorobutadiene	280	U	54.7	280	370	ug/Kg
105-60-2	Caprolactam	580	U	110	580	710	ug/Kg
59-50-7	4-Chloro-3-methylphenol	280	U	62.1	280	370	ug/Kg
91-57-6	2-Methylnaphthalene	280	U	55.4	280	370	ug/Kg
77-47-4	Hexachlorocyclopentadiene	580	U	250	580	710	ug/Kg
88-06-2	2,4,6-Trichlorophenol	280	U	42.8	280	370	ug/Kg
95-95-4	2,4,5-Trichlorophenol	280	U	62.9	280	370	ug/Kg
92-52-4	1,1-Biphenyl	280	U	47.2	280	370	ug/Kg
91-58-7	2-Chloronaphthalene	280	U	48.7	280	370	ug/Kg
88-74-4	2-Nitroaniline	280	U	100	280	370	ug/Kg
131-11-3	Dimethylphthalate	280	U	58.6	280	370	ug/Kg

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208-96-8	Acenaphthylene	280	U	62.5	280	370	ug/Kg
606-20-2	2,6-Dinitrotoluene	280	U	72.7	280	370	ug/Kg
99-09-2	3-Nitroaniline	280	U	99.5	280	370	ug/Kg
83-32-9	Acenaphthene	280	U	46.1	280	370	ug/Kg
51-28-5	2,4-Dinitrophenol	580	U	500	580	710	ug/Kg
100-02-7	4-Nitrophenol	580	U	230	580	710	ug/Kg
132-64-9	Dibenzofuran	280	U	49.1	280	370	ug/Kg
121-14-2	2,4-Dinitrotoluene	280	U	110	280	370	ug/Kg
84-66-2	Diethylphthalate	280	U	61.2	280	370	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	280	U	57.8	280	370	ug/Kg
86-73-7	Fluorene	280	U	54.7	280	370	ug/Kg
100-01-6	4-Nitroaniline	280	U	140	280	370	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	580	U	220	580	710	ug/Kg
86-30-6	n-Nitrosodiphenylamine	280	U	71.2	280	370	ug/Kg
101-55-3	4-Bromophenyl-phenylether	280	U	60.1	280	370	ug/Kg
118-74-1	Hexachlorobenzene	280	U	54.7	280	370	ug/Kg
1912-24-9	Atrazine	280	U	73.5	280	370	ug/Kg
87-86-5	Pentachlorophenol	580	U	110	580	710	ug/Kg
85-01-8	Phenanthrene	280	U	45.2	280	370	ug/Kg
120-12-7	Anthracene	280	U	72.0	280	370	ug/Kg
86-74-8	Carbazole	280	U	67.5	280	370	ug/Kg
84-74-2	Di-n-butylphthalate	280	U	100	280	370	ug/Kg
206-44-0	Fluoranthene	280	U	64.9	280	370	ug/Kg
129-00-0	Pyrene	280	U	77.9	280	370	ug/Kg
85-68-7	Butylbenzylphthalate	280	U	150	280	370	ug/Kg
91-94-1	3,3-Dichlorobenzidine	580	U	79.4	580	710	ug/Kg
56-55-3	Benzo(a)anthracene	280	U	49.8	280	370	ug/Kg
218-01-9	Chrysene	280	U	43.0	280	370	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	280	U	130	280	370	ug/Kg
117-84-0	Di-n-octyl phthalate	580	U	190	580	710	ug/Kg
205-99-2	Benzo(b)fluoranthene	280	U	41.1	280	370	ug/Kg

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207-08-9	Benzo(k)fluoranthene	280	U	48.5	280	370	ug/Kg
50-32-8	Benzo(a)pyrene	280	U	63.8	280	370	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	280	U	62.9	280	370	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	280	U	59.3	280	370	ug/Kg
191-24-2	Benzo(g,h,i)perylene	280	U	55.6	280	370	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	280	U	55.4	280	370	ug/Kg
123-91-1	1,4-Dioxane	280	U	97.8	280	370	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	280	U	59.3	280	370	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	90.9		35 - 115		61%	SPK: 150
13127-88-3	Phenol-d6	91.8		34 - 127		61%	SPK: 150
4165-60-0	Nitrobenzene-d5	59.4		37 - 122		59%	SPK: 100
321-60-8	2-Fluorobiphenyl	60.1		44 - 115		60%	SPK: 100
118-79-6	2,4,6-Tribromophenol	87.3		39 - 132		58%	SPK: 150
1718-51-0	Terphenyl-d14	56.6		54 - 127		57%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	225000	7.784
1146-65-2	Naphthalene-d8	871000	10.554
15067-26-2	Acenaphthene-d10	495000	14.413
1517-22-2	Phenanthrene-d10	919000	17.207
1719-03-5	Chrysene-d12	943000	21.653
1520-96-3	Perylene-d12	1080000	25.03

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	680	J		3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	200	AB		4.94	ug/Kg
000143-24-8	Tetraglyme	210	J		14.5	ug/Kg
000119-61-9	Benzophenone	330	J		15.8	ug/Kg
1000366-88-2	Methyl 2-(2-(2-methoxyethoxy)ethox	560	J		16.9	ug/Kg
000057-10-3	n-Hexadecanoic acid	470	J		18.1	ug/Kg
016142-03-3	2-(2-(2-(2-(2-(2-Methoxyethoxy)eth	450	J		18.9	ug/Kg

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000057-11-4	Octadecanoic acid	260	J			19.5	ug/Kg
1000151-22-6	Cyclodocosane, ethyl-	250	J			21.3	ug/Kg
005393-19-1	Phthalic acid, monoethyl ester	160	J			21.6	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