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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	518R-E	SDG No.:	Q2820
Lab Sample ID:	Q2820-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	48.8
Sample Wt/Vol:	30.09 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
BP025381.D	1	08/12/25 09:15	08/13/25 12:41	PB169210

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	550	U	320	550	670	ug/Kg
108-95-2	Phenol	270	U	45.2	270	350	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	270	U	49.6	270	350	ug/Kg
95-57-8	2-Chlorophenol	270	U	49.9	270	350	ug/Kg
95-48-7	2-Methylphenol	270	U	61.1	270	350	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	270	U	76.6	270	350	ug/Kg
98-86-2	Acetophenone	270	U	60.3	270	350	ug/Kg
65794-96-9	3+4-Methylphenols	550	U	84.0	550	670	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	160	U	96.8	160	160	ug/Kg
67-72-1	Hexachloroethane	270	U	36.0	270	350	ug/Kg
98-95-3	Nitrobenzene	270	U	37.4	270	350	ug/Kg
78-59-1	Isophorone	270	U	67.0	270	350	ug/Kg
88-75-5	2-Nitrophenol	270	U	120	270	350	ug/Kg
105-67-9	2,4-Dimethylphenol	270	U	130	270	350	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	270	U	62.9	270	350	ug/Kg
120-83-2	2,4-Dichlorophenol	270	U	57.8	270	350	ug/Kg
91-20-3	Naphthalene	270	U	46.4	270	350	ug/Kg
106-47-8	4-Chloroaniline	270	U	72.3	270	350	ug/Kg
87-68-3	Hexachlorobutadiene	270	U	51.7	270	350	ug/Kg
105-60-2	Caprolactam	550	U	110	550	670	ug/Kg
59-50-7	4-Chloro-3-methylphenol	270	U	58.6	270	350	ug/Kg
91-57-6	2-Methylnaphthalene	270	U	52.3	270	350	ug/Kg
77-47-4	Hexachlorocyclopentadiene	550	U	240	550	670	ug/Kg
88-06-2	2,4,6-Trichlorophenol	270	U	40.5	270	350	ug/Kg
95-95-4	2,4,5-Trichlorophenol	270	U	59.5	270	350	ug/Kg
92-52-4	1,1-Biphenyl	270	U	44.5	270	350	ug/Kg
91-58-7	2-Chloronaphthalene	270	U	46.0	270	350	ug/Kg
88-74-4	2-Nitroaniline	270	U	98.3	270	350	ug/Kg
131-11-3	Dimethylphthalate	270	U	55.4	270	350	ug/Kg

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CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	270	U	59.0	270	350	ug/Kg
606-20-2	2,6-Dinitrotoluene	270	U	68.6	270	350	ug/Kg
99-09-2	3-Nitroaniline	270	U	94.0	270	350	ug/Kg
83-32-9	Acenaphthene	270	U	43.5	270	350	ug/Kg
51-28-5	2,4-Dinitrophenol	550	U	470	550	670	ug/Kg
100-02-7	4-Nitrophenol	550	U	220	550	670	ug/Kg
132-64-9	Dibenzofuran	270	U	46.4	270	350	ug/Kg
121-14-2	2,4-Dinitrotoluene	270	U	100	270	350	ug/Kg
84-66-2	Diethylphthalate	270	U	57.8	270	350	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	270	U	54.5	270	350	ug/Kg
86-73-7	Fluorene	270	U	51.7	270	350	ug/Kg
100-01-6	4-Nitroaniline	270	U	130	270	350	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	550	U	210	550	670	ug/Kg
86-30-6	n-Nitrosodiphenylamine	270	U	67.2	270	350	ug/Kg
101-55-3	4-Bromophenyl-phenylether	270	U	56.8	270	350	ug/Kg
118-74-1	Hexachlorobenzene	270	U	51.7	270	350	ug/Kg
1912-24-9	Atrazine	270	U	69.5	270	350	ug/Kg
87-86-5	Pentachlorophenol	550	U	100	550	670	ug/Kg
85-01-8	Phenanthrene	270	U	42.7	270	350	ug/Kg
120-12-7	Anthracene	270	U	68.0	270	350	ug/Kg
86-74-8	Carbazole	270	U	63.7	270	350	ug/Kg
84-74-2	Di-n-butylphthalate	270	U	97.9	270	350	ug/Kg
206-44-0	Fluoranthene	270	U	61.3	270	350	ug/Kg
129-00-0	Pyrene	270	U	73.5	270	350	ug/Kg
85-68-7	Butylbenzylphthalate	270	U	150	270	350	ug/Kg
91-94-1	3,3-Dichlorobenzidine	550	U	75.0	550	670	ug/Kg
56-55-3	Benzo(a)anthracene	270	U	47.0	270	350	ug/Kg
218-01-9	Chrysene	270	U	40.7	270	350	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	270	U	120	270	350	ug/Kg
117-84-0	Di-n-octyl phthalate	550	U	180	550	670	ug/Kg
205-99-2	Benzo(b)fluoranthene	270	U	38.8	270	350	ug/Kg

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207-08-9	Benzo(k)fluoranthene	270	U	45.8	270	350	ug/Kg
50-32-8	Benzo(a)pyrene	270	U	60.3	270	350	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	270	U	59.5	270	350	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	270	U	56.0	270	350	ug/Kg
191-24-2	Benzo(g,h,i)perylene	270	U	52.5	270	350	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	270	U	52.3	270	350	ug/Kg
123-91-1	1,4-Dioxane	270	U	92.3	270	350	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	270	U	56.0	270	350	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	117		35 - 115		78%	SPK: 150
13127-88-3	Phenol-d6	110		34 - 127		73%	SPK: 150
4165-60-0	Nitrobenzene-d5	78.6		37 - 122		79%	SPK: 100
321-60-8	2-Fluorobiphenyl	55.8		44 - 115		56%	SPK: 100
118-79-6	2,4,6-Tribromophenol	154		39 - 132		102%	SPK: 150
1718-51-0	Terphenyl-d14	45.7	*	54 - 127		46%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	175000	7.796				
1146-65-2	Naphthalene-d8	681000	10.572				
15067-26-2	Acenaphthene-d10	417000	14.413				
1517-22-2	Phenanthrene-d10	829000	17.207				
1719-03-5	Chrysene-d12	887000	21.654				
1520-96-3	Perylene-d12	1030000	25.054				
TENTATIVE IDENTIFIED COMPOUNDS							
000994-05-8	Butane, 2-methoxy-2-methyl-	2300	J			3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	540	AB			4.96	ug/Kg
65-85-0	Benzoic acid	470	J			9.81	ug/Kg
000119-61-9	Benzophenone	290	J			15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	650	J			18.1	ug/Kg
000057-11-4	Octadecanoic acid	150	J			19.5	ug/Kg
015594-90-8	1-Heneicosanol	490	J			21.3	ug/Kg

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018835-33-1	1-Hexacosene	230	J			22.6	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