CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P-19A	SDG No.:	O1232
Lab Sample ID:	O1232-06	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.2
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
BG056372.D	1	01/20/23 12:30	01/20/23 18:05	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	160	U	160	370	ug/Kg
108-95-2	Phenol	76.7	U	76.7	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	91.0	U	91.0	190	ug/Kg
95-57-8	2-Chlorophenol	77.4	U	77.4	190	ug/Kg
95-48-7	2-Methylphenol	120	U	120	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	110	U	110	190	ug/Kg
98-86-2	Acetophenone	90.8	U	90.8	190	ug/Kg
65794-96-9	3+4-Methylphenols	110	U	110	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	86.2	U	86.2	90.6	ug/Kg
67-72-1	Hexachloroethane	83.5	U	83.5	190	ug/Kg
98-95-3	Nitrobenzene	83.7	U	83.7	190	ug/Kg
78-59-1	Isophorone	75.5	U	75.5	190	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	120	U	120	190	ug/Kg
120-83-2	2,4-Dichlorophenol	92.6	U	92.6	190	ug/Kg
91-20-3	Naphthalene	83.7	U	83.7	190	ug/Kg
106-47-8	4-Chloroaniline	110	U	110	190	ug/Kg
87-68-3	Hexachlorobutadiene	110	U	110	190	ug/Kg
105-60-2	Caprolactam	110	U	110	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	89.2	U	89.2	190	ug/Kg
91-57-6	2-Methylnaphthalene	85.0	U	85.0	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	200	U	200	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	96.8	U	96.8	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	94.7	U	94.7	190	ug/Kg
92-52-4	1,1-Biphenyl	98.0	U	98.0	190	ug/Kg
91-58-7	2-Chloronaphthalene	96.9	U	96.9	190	ug/Kg
88-74-4	2-Nitroaniline	120	U	120	190	ug/Kg
131-11-3	Dimethylphthalate	91.7	U	91.7	190	ug/Kg
208-96-8	Acenaphthylene	77.8	U	77.8	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	88.5	U	88.5	190	ug/Kg

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99-09-2	3-Nitroaniline	110	U	110	190	ug/Kg
83-32-9	Acenaphthene	89.4	U	89.4	190	ug/Kg
51-28-5	2,4-Dinitrophenol	150	U	150	370	ug/Kg
100-02-7	4-Nitrophenol	160	U	160	370	ug/Kg
132-64-9	Dibenzofuran	84.1	U	84.1	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	95.9	U	95.9	190	ug/Kg
84-66-2	Diethylphthalate	91.2	U	91.2	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	110	U	110	190	ug/Kg
86-73-7	Fluorene	89.3	U	89.3	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	97.7	U	97.7	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	93.1	U	93.1	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	110	U	110	190	ug/Kg
118-74-1	Hexachlorobenzene	120	U	120	190	ug/Kg
1912-24-9	Atrazine	100	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	130	U	130	370	ug/Kg
85-01-8	Phenanthrene	1000		94.7	190	ug/Kg
120-12-7	Anthracene	210		95.2	190	ug/Kg
86-74-8	Carbazole	95.4	U	95.4	190	ug/Kg
84-74-2	Di-n-butylphthalate	98.6	U	98.6	190	ug/Kg
206-44-0	Fluoranthene	790		90.4	190	ug/Kg
129-00-0	Pyrene	1200		84.1	190	ug/Kg
85-68-7	Butylbenzylphthalate	93.7	U	93.7	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	160	U	160	370	ug/Kg
56-55-3	Benzo(a)anthracene	520		98.3	190	ug/Kg
218-01-9	Chrysene	570		96.9	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	100	U	100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	390		78.2	190	ug/Kg
207-08-9	Benzo(k)fluoranthene	130	J	83.4	190	ug/Kg
50-32-8	Benzo(a)pyrene	400		76.7	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	190		110	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	120	U	120	190	ug/Kg

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191-24-2	Benzo(g,h,i)perylene	250		110	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	100	U	100	190	ug/Kg
123-91-1	1,4-Dioxane	100	U	100	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	92.0	U	92.0	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	115		18 - 112	77%	SPK: 150
13127-88-3	Phenol-d6	105		21 - 104	70%	SPK: 150
4165-60-0	Nitrobenzene-d5	63.9		27 - 109	64%	SPK: 100
321-60-8	2-Fluorobiphenyl	69.1		30 - 103	69%	SPK: 100
118-79-6	2,4,6-Tribromophenol	113		10 - 121	75%	SPK: 150
1718-51-0	Terphenyl-d14	70.2		21 - 107	70%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	36900	8.302			
1146-65-2	Naphthalene-d8	139000	11.134			
15067-26-2	Acenaphthene-d10	115000	14.912			
1517-22-2	Phenanthrene-d10	282000	17.65			
1719-03-5	Chrysene-d12	266000	21.945			
1520-96-3	Perylene-d12	295000	25.382			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	630	AB		5.34	ug/Kg
000119-61-9	Benzophenone	150	J		16.3	ug/Kg
067388-11-8	4-Methylnaphtho[1,2-b]thiophene	160	J		18.2	ug/Kg
002531-84-2	Phenanthrene, 2-methyl-	670	J		18.5	ug/Kg
001961-96-2	1H-Indene, 1-phenyl-	570	J		18.6	ug/Kg
000613-12-7	Anthracene, 2-methyl-	210	J		18.6	ug/Kg
000610-48-0	Anthracene, 1-methyl-	790	J		18.7	ug/Kg
000832-71-3	Phenanthrene, 3-methyl-	330	J		18.7	ug/Kg
000612-94-2	Naphthalene, 2-phenyl-	230	J		19.0	ug/Kg
000084-65-1	9,10-Anthracenedione	210	J		19.1	ug/Kg
003674-69-9	Phenanthrene, 4,5-dimethyl-	230	J		19.2	ug/Kg
003674-66-6	Phenanthrene, 2,5-dimethyl-	540	J		19.4	ug/Kg
002789-88-0	di-p-Tolylacetylene	200	J		19.5	ug/Kg

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022360-62-9	1-Methyl-3-phenyl-1H-indene	360	J		19.6	ug/Kg
002381-21-7	Pyrene, 1-methyl-	180	J		20.4	ug/Kg
000243-17-4	11H-Benzo[b]fluorene	220	J		20.5	ug/Kg
003442-78-2	Pyrene, 2-methyl-	140	J		20.7	ug/Kg
003353-12-6	Pyrene, 4-methyl-	130	J		20.8	ug/Kg
018435-45-5	1-Nonadecene	180	J		21.5	ug/Kg
000192-97-2	Benzo[e]pyrene	380	J		25.1	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