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:	WC-17	SDG No.:	O1232
Lab Sample ID:	O1232-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.4
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
BP013584.D	1	01/20/23 12:30	01/24/23 22:44	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	150	U	150	360	ug/Kg
108-95-2	Phenol	74.0	U	74.0	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	87.8	U	87.8	190	ug/Kg
95-57-8	2-Chlorophenol	74.7	U	74.7	190	ug/Kg
95-48-7	2-Methylphenol	120	U	120	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	100	U	100	190	ug/Kg
98-86-2	Acetophenone	87.5	U	87.5	190	ug/Kg
65794-96-9	3+4-Methylphenols	110	U	110	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	83.2	U	83.2	87.4	ug/Kg
67-72-1	Hexachloroethane	80.6	U	80.6	190	ug/Kg
98-95-3	Nitrobenzene	80.8	U	80.8	190	ug/Kg
78-59-1	Isophorone	72.8	U	72.8	190	ug/Kg
88-75-5	2-Nitrophenol	100	U	100	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	89.3	U	89.3	190	ug/Kg
91-20-3	Naphthalene	80.8	U	80.8	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	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	86.0	U	86.0	190	ug/Kg
91-57-6	2-Methylnaphthalene	82.0	U	82.0	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	190	U	190	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	93.3	U	93.3	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	91.4	U	91.4	190	ug/Kg
92-52-4	1,1-Biphenyl	94.5	U	94.5	190	ug/Kg
91-58-7	2-Chloronaphthalene	93.5	U	93.5	190	ug/Kg
88-74-4	2-Nitroaniline	120	U	120	190	ug/Kg
131-11-3	Dimethylphthalate	88.4	U	88.4	190	ug/Kg
208-96-8	Acenaphthylene	75.1	U	75.1	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	85.4	U	85.4	190	ug/Kg

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99-09-2	3-Nitroaniline	110	U	110	190	ug/Kg
83-32-9	Acenaphthene	86.2	U	86.2	190	ug/Kg
51-28-5	2,4-Dinitrophenol	140	U	140	360	ug/Kg
100-02-7	4-Nitrophenol	150	U	150	360	ug/Kg
132-64-9	Dibenzofuran	81.1	U	81.1	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	92.5	U	92.5	190	ug/Kg
84-66-2	Diethylphthalate	88.0	U	88.0	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	100	U	100	190	ug/Kg
86-73-7	Fluorene	86.1	U	86.1	190	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	94.2	U	94.2	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	89.8	U	89.8	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	110	U	110	190	ug/Kg
118-74-1	Hexachlorobenzene	110	U	110	190	ug/Kg
1912-24-9	Atrazine	98.4	U	98.4	190	ug/Kg
87-86-5	Pentachlorophenol	130	U	130	360	ug/Kg
85-01-8	Phenanthrene	91.4	U	91.4	190	ug/Kg
120-12-7	Anthracene	91.8	U	91.8	190	ug/Kg
86-74-8	Carbazole	92.0	U	92.0	190	ug/Kg
84-74-2	Di-n-butylphthalate	95.1	U	95.1	190	ug/Kg
206-44-0	Fluoranthene	87.2	U	87.2	190	ug/Kg
129-00-0	Pyrene	81.1	U	81.1	190	ug/Kg
85-68-7	Butylbenzylphthalate	90.4	U	90.4	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	150	U	150	360	ug/Kg
56-55-3	Benzo(a)anthracene	95.4	J	94.9	190	ug/Kg
218-01-9	Chrysene	120	J	93.5	190	ug/Kg
117-84-0	Di-n-octyl phthalate	99.5	U	99.5	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	75.4	U	75.4	190	ug/Kg
207-08-9	Benzo(k)fluoranthene	80.4	U	80.4	190	ug/Kg
50-32-8	Benzo(a)pyrene	74.0	U	74.0	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	110	U	110	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	110	U	110	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	110	U	110	190	ug/Kg

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CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
95-94-3	1,2,4,5-Tetrachlorobenzene	99.7	U	99.7	190	ug/Kg
123-91-1	1,4-Dioxane	97.4	U	97.4	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	88.8	U	88.8	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	100		18 - 112	67%	SPK: 150
13127-88-3	Phenol-d6	94.7		21 - 104	63%	SPK: 150
4165-60-0	Nitrobenzene-d5	68.4		27 - 109	68%	SPK: 100
321-60-8	2-Fluorobiphenyl	62.4		30 - 103	62%	SPK: 100
118-79-6	2,4,6-Tribromophenol	104		10 - 121	69%	SPK: 150
1718-51-0	Terphenyl-d14	65.2		21 - 107	65%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	386000	8.158			
1146-65-2	Naphthalene-d8	1520000	10.987			
15067-26-2	Acenaphthene-d10	828000	14.793			
1517-22-2	Phenanthrene-d10	1520000	17.545			
1719-03-5	Chrysene-d12	1000000	21.616			
1520-96-3	Perylene-d12	1340000	24.204			
TENTATIVE IDENTIFIED COMPOUNDS						
117-81-7	Bis(2-ethylhexyl)phthalate					
117-81-7	Bis(2-ethylhexyl)phthalate	110			21.5	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