

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-P19B	SDG No.:	O1232
Lab Sample ID:	O1232-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88
Sample Wt/Vol:	30.05 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
BG056414.D	1	01/20/23 12:30	01/24/23 22:35	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	76.8	U	76.8	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	91.1	U	91.1	190	ug/Kg
95-57-8	2-Chlorophenol	77.5	U	77.5	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	90.9	U	90.9	190	ug/Kg
65794-96-9	3+4-Methylphenols	110	U	110	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	86.3	U	86.3	90.8	ug/Kg
67-72-1	Hexachloroethane	83.6	U	83.6	190	ug/Kg
98-95-3	Nitrobenzene	83.8	U	83.8	190	ug/Kg
78-59-1	Isophorone	75.6	U	75.6	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	92.7	U	92.7	190	ug/Kg
91-20-3	Naphthalene	83.8	U	83.8	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	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	89.3	U	89.3	190	ug/Kg
91-57-6	2-Methylnaphthalene	85.1	U	85.1	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	200	U	200	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	96.9	U	96.9	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	94.8	U	94.8	190	ug/Kg
92-52-4	1,1-Biphenyl	98.1	U	98.1	190	ug/Kg
91-58-7	2-Chloronaphthalene	97.0	U	97.0	190	ug/Kg
88-74-4	2-Nitroaniline	120	U	120	190	ug/Kg
131-11-3	Dimethylphthalate	91.8	U	91.8	190	ug/Kg
208-96-8	Acenaphthylene	77.9	U	77.9	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	88.6	U	88.6	190	ug/Kg

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99-09-2	3-Nitroaniline	110	U	110	190	ug/Kg
83-32-9	Acenaphthene	89.5	U	89.5	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	84.2	U	84.2	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	96.0	U	96.0	190	ug/Kg
84-66-2	Diethylphthalate	91.3	U	91.3	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	110	U	110	190	ug/Kg
86-73-7	Fluorene	89.4	U	89.4	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	97.8	U	97.8	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	93.3	U	93.3	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		94.8	190	ug/Kg
120-12-7	Anthracene	180	J	95.3	190	ug/Kg
86-74-8	Carbazole	95.5	U	95.5	190	ug/Kg
84-74-2	Di-n-butylphthalate	98.7	U	98.7	190	ug/Kg
206-44-0	Fluoranthene	1000		90.5	190	ug/Kg
129-00-0	Pyrene	1000		84.2	190	ug/Kg
85-68-7	Butylbenzylphthalate	93.8	U	93.8	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	160	U	160	370	ug/Kg
56-55-3	Benzo(a)anthracene	500		98.5	190	ug/Kg
218-01-9	Chrysene	480		97.0	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	480		78.3	190	ug/Kg
207-08-9	Benzo(k)fluoranthene	160	J	83.5	190	ug/Kg
50-32-8	Benzo(a)pyrene	360		76.8	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	230		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	92.1	U	92.1	190	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	120		18 - 112	80%	SPK: 150
13127-88-3	Phenol-d6	110		21 - 104	73%	SPK: 150
4165-60-0	Nitrobenzene-d5	63.3		27 - 109	63%	SPK: 100
321-60-8	2-Fluorobiphenyl	67.7		30 - 103	68%	SPK: 100
118-79-6	2,4,6-Tribromophenol	110		10 - 121	74%	SPK: 150
1718-51-0	Terphenyl-d14	65.3		21 - 107	65%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	40800	8.288
1146-65-2	Naphthalene-d8	165000	11.126
15067-26-2	Acenaphthene-d10	127000	14.904
1517-22-2	Phenanthrene-d10	292000	17.642
1719-03-5	Chrysene-d12	275000	21.931
1520-96-3	Perylene-d12	300000	25.363

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	660	AB	5.33	ug/Kg
000119-61-9	Benzophenone	180	J	16.2	ug/Kg
002531-84-2	Phenanthrene, 2-methyl-	370	J	18.5	ug/Kg
000613-12-7	Anthracene, 2-methyl-	310	J	18.6	ug/Kg
000610-48-0	Anthracene, 1-methyl-	100	J	18.6	ug/Kg
	unknown18.706	380	J	18.7	ug/Kg
000832-64-4	Phenanthrene, 4-methyl-	150	J	18.7	ug/Kg
000612-94-2	Naphthalene, 2-phenyl-	160	J	19.0	ug/Kg
000084-65-1	9,10-Anthracenedione	110	J	19.0	ug/Kg
1000452-24-5	3,4-Dimethylphenanthrene	100	J	19.2	ug/Kg
000781-43-1	9,10-Dimethylantracene	280	J	19.4	ug/Kg
005737-13-3	Cyclopenta(def)phenanthrenone	180	J	19.6	ug/Kg
002381-21-7	Pyrene, 1-methyl-	130	J	20.4	ug/Kg

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003442-78-2	Pyrene, 2-methyl-	87.4	J		20.7	ug/Kg
000479-79-8	11H-Benzo[a]fluoren-11-one	96.1	J		21.3	ug/Kg
007206-19-1	3-Octadecene, (E)-	160	J		21.5	ug/Kg
000082-05-3	7H-Benz[de]anthracen-7-one	93.0	J		21.6	ug/Kg
000192-97-2	Benzo[e]pyrene	310	J		25.0	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