



Friday, August 07, 2020

Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Project ID: 8 WESTCHESTER AVE, NEW ROCHELLE NY
SDG ID: GCG47111
Sample ID#s: CG47111 - CG47118

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



SDG Comments

August 07, 2020

SDG I.D.: GCG47111

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.



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Sample Id Cross Reference

August 07, 2020

SDG I.D.: GCG47111

Project ID: 8 WESTCHESTER AVE, NEW ROCHELLE NY

Client Id	Lab Id	Matrix
8WB1 FILL	CG47111	SOIL
8WB2 FILL	CG47112	SOIL
8WB3 FILL	CG47113	SOIL
8WB4 FILL	CG47114	SOIL
8WB5 FILL	CG47115	SOIL
8WB6 FILL	CG47116	SOIL
TRIP BLANK HIGH	CG47117	SOIL
TRIP BLANK LOW	CG47118	SOIL



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Analysis Report

August 07, 2020

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information

Matrix: SOIL
Location Code: EBC
Rush Request: 72 Hour
P.O.#:

Custody Information

Collected by: DM
Received by: CP
Analyzed by: see "By" below

Date

08/03/20
08/04/20

Time

9:55
15:52

Laboratory Data

SDG ID: GCG47111
Phoenix ID: CG47111

Project ID: 8 WESTCHESTER AVE, NEW ROCHELLE NY
Client ID: 8WB1 FILL

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40		mg/Kg	1	08/05/20	CPP	SW6010D
Aluminum	11900	40		mg/Kg	10	08/05/20	CPP	SW6010D
Arsenic	3.01	0.80		mg/Kg	1	08/05/20	CPP	SW6010D
Barium	108	0.8		mg/Kg	1	08/05/20	CPP	SW6010D
Beryllium	0.57	0.32		mg/Kg	1	08/05/20	CPP	SW6010D
Calcium	34000	40		mg/Kg	10	08/05/20	CPP	SW6010D
Cadmium	0.73	0.40		mg/Kg	1	08/05/20	CPP	SW6010D
Cobalt	8.60	0.40		mg/Kg	1	08/05/20	CPP	SW6010D
Chromium	17.6	0.40		mg/Kg	1	08/05/20	CPP	SW6010D
Copper	20.2	0.8		mg/kg	1	08/05/20	CPP	SW6010D
Iron	16600	40		mg/Kg	10	08/05/20	CPP	SW6010D
Mercury	< 0.03	0.03		mg/Kg	2	08/05/20	RS	SW7471B
Potassium	1960	8		mg/Kg	1	08/05/20	CPP	SW6010D
Magnesium	2860	4.0		mg/Kg	1	08/05/20	CPP	SW6010D
Manganese	397	4.0		mg/Kg	10	08/05/20	CPP	SW6010D
Molybdenum	< 0.40	0.40		mg/Kg	1	08/05/20	CPP	SW6010D
Sodium	885	8		mg/Kg	1	08/05/20	CPP	SW6010D
Nickel	16.1	0.40		mg/Kg	1	08/05/20	CPP	SW6010D
Lead	21.5	0.8		mg/Kg	1	08/05/20	CPP	SW6010D
Antimony	< 4.0	4.0		mg/Kg	1	08/05/20	CPP	SW6010D
Selenium	< 1.6	1.6		mg/Kg	1	08/05/20	CPP	SW6010D
Thallium	< 1.6	1.6		mg/Kg	1	08/05/20	CPP	SW6010D
Vanadium	25.1	0.40		mg/Kg	1	08/05/20	CPP	SW6010D
Zinc	31.5	0.8		mg/Kg	1	08/05/20	CPP	SW6010D
Percent Solid	84			%		08/04/20	HB	SW846-%Solid
Chromium, Hex. (SW3060 digestion)	< 0.47	0.47		mg/Kg	1	08/06/20	ARG	SW7196A
pH at 25C - Soil	10.7	1.00		pH Units	1	08/04/20 22:25	MB	SW846 9045
Redox Potential	216			mV	1	08/04/20	MB	SM2580B-09

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
Total Cyanide (SW9010C Distill.)	< 0.60	0.60		mg/Kg	1	08/06/20	EG SW9012B
Soil Extraction for PCB	Completed					08/04/20	L/E SW3545A
Soil Extraction for Pesticides	Completed					08/04/20	L/E SW3545A
Mercury Digestion	Completed					08/05/20	VT/VT SW7471B
Soil Extraction for SVOA	Completed					08/04/20	R/M SW3546
Total Metals Digest	Completed					08/04/20	F/AG/BF SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	78	78	ug/Kg	2	08/05/20	SC SW8082A
PCB-1221	ND	78	78	ug/Kg	2	08/05/20	SC SW8082A
PCB-1232	ND	78	78	ug/Kg	2	08/05/20	SC SW8082A
PCB-1242	ND	78	78	ug/Kg	2	08/05/20	SC SW8082A
PCB-1248	ND	78	78	ug/Kg	2	08/05/20	SC SW8082A
PCB-1254	ND	78	78	ug/Kg	2	08/05/20	SC SW8082A
PCB-1260	ND	78	78	ug/Kg	2	08/05/20	SC SW8082A
PCB-1262	ND	78	78	ug/Kg	2	08/05/20	SC SW8082A
PCB-1268	ND	78	78	ug/Kg	2	08/05/20	SC SW8082A

QA/QC Surrogates

% DCBP	72			%	2	08/05/20	SC 30 - 150 %
% DCBP (Confirmation)	64			%	2	08/05/20	SC 30 - 150 %
% TCMX	58			%	2	08/05/20	SC 30 - 150 %
% TCMX (Confirmation)	61			%	2	08/05/20	SC 30 - 150 %

Pesticides - Soil

4,4' -DDD	ND	2.3		ug/Kg	2	08/05/20	CG SW8081B
4,4' -DDE	ND	2.3		ug/Kg	2	08/05/20	CG SW8081B
4,4' -DDT	ND	2.3		ug/Kg	2	08/05/20	CG SW8081B
a-BHC	ND	7.8		ug/Kg	2	08/05/20	CG SW8081B
a-Chlordane	ND	3.9		ug/Kg	2	08/05/20	CG SW8081B
Aldrin	ND	3.9		ug/Kg	2	08/05/20	CG SW8081B
b-BHC	ND	7.8		ug/Kg	2	08/05/20	CG SW8081B
Chlordane	ND	39		ug/Kg	2	08/05/20	CG SW8081B
d-BHC	ND	7.8		ug/Kg	2	08/05/20	CG SW8081B
Dieldrin	ND	3.9		ug/Kg	2	08/05/20	CG SW8081B
Endosulfan I	ND	7.8		ug/Kg	2	08/05/20	CG SW8081B
Endosulfan II	ND	7.8		ug/Kg	2	08/05/20	CG SW8081B
Endosulfan sulfate	ND	7.8		ug/Kg	2	08/05/20	CG SW8081B
Endrin	ND	7.8		ug/Kg	2	08/05/20	CG SW8081B
Endrin aldehyde	ND	7.8		ug/Kg	2	08/05/20	CG SW8081B
Endrin ketone	ND	7.8		ug/Kg	2	08/05/20	CG SW8081B
g-BHC	ND	1.6		ug/Kg	2	08/05/20	CG SW8081B
g-Chlordane	ND	3.9		ug/Kg	2	08/05/20	CG SW8081B
Heptachlor	ND	7.8		ug/Kg	2	08/05/20	CG SW8081B
Heptachlor epoxide	ND	7.8		ug/Kg	2	08/05/20	CG SW8081B
Methoxychlor	ND	39		ug/Kg	2	08/05/20	CG SW8081B
Toxaphene	ND	160		ug/Kg	2	08/05/20	CG SW8081B

QA/QC Surrogates

% DCBP	57			%	2	08/05/20	CG 30 - 150 %
% DCBP (Confirmation)	82			%	2	08/05/20	CG 30 - 150 %
% TCMX	43			%	2	08/05/20	CG 30 - 150 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	
% TCMX (Confirmation)	48			%	2	08/05/20	CG	30 - 150 %
Volatiles								
1,1,1,2-Tetrachloroethane	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
1,1-Dichloroethane	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
1,1-Dichloroethene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
1,1-Dichloropropene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
1,2,4-Trimethylbenzene	0.86	J 3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dibromoethane	ND	1.2	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dichloroethane	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dichloropropane	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
1,3-Dichloropropane	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
2,2-Dichloropropane	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
2-Chlorotoluene	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
2-Hexanone	ND	18	3.6	ug/Kg	1	08/05/20	JLI	SW8260C
2-Isopropyltoluene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
4-Chlorotoluene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	18	3.6	ug/Kg	1	08/05/20	JLI	SW8260C
Acetone	4.5	JS 18	3.6	ug/Kg	1	08/05/20	JLI	SW8260C
Acrylonitrile	ND	7.1	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
Benzene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
Bromobenzene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
Bromochloromethane	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
Bromodichloromethane	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
Bromoform	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
Bromomethane	ND	3.6	1.4	ug/Kg	1	08/05/20	JLI	SW8260C
Carbon Disulfide	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
Carbon tetrachloride	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
Chlorobenzene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
Chloroethane	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
Chloroform	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
Chloromethane	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
Dibromochloromethane	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
Dibromomethane	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
Dichlorodifluoromethane	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
Ethylbenzene	1.0	J 3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
Hexachlorobutadiene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
Isopropylbenzene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI SW8260C
m&p-Xylene	0.96	J 3.6	0.71	ug/Kg	1	08/05/20	JLI SW8260C
Methyl Ethyl Ketone	ND	21	3.6	ug/Kg	1	08/05/20	JLI SW8260C
Methyl t-butyl ether (MTBE)	ND	7.1	0.71	ug/Kg	1	08/05/20	JLI SW8260C
Methylene chloride	ND	3.6	3.6	ug/Kg	1	08/05/20	JLI SW8260C
Naphthalene	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI SW8260C
n-Butylbenzene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI SW8260C
n-Propylbenzene	0.81	J 3.6	0.71	ug/Kg	1	08/05/20	JLI SW8260C
o-Xylene	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI SW8260C
p-Isopropyltoluene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI SW8260C
sec-Butylbenzene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI SW8260C
Styrene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI SW8260C
tert-Butylbenzene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI SW8260C
Tetrachloroethene	1.7	J 3.6	0.71	ug/Kg	1	08/05/20	JLI SW8260C
Tetrahydrofuran (THF)	ND	7.1	1.8	ug/Kg	1	08/05/20	JLI SW8260C
Toluene	0.44	J 3.6	0.36	ug/Kg	1	08/05/20	JLI SW8260C
trans-1,2-Dichloroethene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI SW8260C
trans-1,3-Dichloropropene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI SW8260C
trans-1,4-dichloro-2-butene	ND	7.1	1.8	ug/Kg	1	08/05/20	JLI SW8260C
Trichloroethene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI SW8260C
Trichlorofluoromethane	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI SW8260C
Trichlorotrifluoroethane	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI SW8260C
Vinyl chloride	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	104			%	1	08/05/20	JLI 70 - 130 %
% Bromofluorobenzene	86			%	1	08/05/20	JLI 70 - 130 %
% Dibromofluoromethane	94			%	1	08/05/20	JLI 70 - 130 %
% Toluene-d8	97			%	1	08/05/20	JLI 70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	54		ug/kg	1	08/05/20	JLI SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	104			%	1	08/05/20	JLI 70 - 130 %
% Bromofluorobenzene	86			%	1	08/05/20	JLI 70 - 130 %
% Dibromofluoromethane	94			%	1	08/05/20	JLI 70 - 130 %
% Toluene-d8	97			%	1	08/05/20	JLI 70 - 130 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	14		ug/Kg	1	08/05/20	JLI SW8260C
Acrolein	ND	1.4		ug/Kg	1	08/05/20	JLI SW8260C
Acrylonitrile	ND	14		ug/Kg	1	08/05/20	JLI SW8260C
Tert-butyl alcohol	ND	71		ug/Kg	1	08/05/20	JLI SW8260C
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	270	140	ug/Kg	1	08/05/20	WB SW8270D
1,2,4-Trichlorobenzene	ND	270	120	ug/Kg	1	08/05/20	WB SW8270D
1,2-Dichlorobenzene	ND	270	110	ug/Kg	1	08/05/20	WB SW8270D
1,2-Diphenylhydrazine	ND	270	130	ug/Kg	1	08/05/20	WB SW8270D
1,3-Dichlorobenzene	ND	270	110	ug/Kg	1	08/05/20	WB SW8270D
1,4-Dichlorobenzene	ND	270	110	ug/Kg	1	08/05/20	WB SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
2,4,5-Trichlorophenol	ND	270	210	ug/Kg	1	08/05/20	WB SW8270D
2,4,6-Trichlorophenol	ND	190	120	ug/Kg	1	08/05/20	WB SW8270D
2,4-Dichlorophenol	ND	190	140	ug/Kg	1	08/05/20	WB SW8270D
2,4-Dimethylphenol	ND	270	96	ug/Kg	1	08/05/20	WB SW8270D
2,4-Dinitrophenol	ND	270	270	ug/Kg	1	08/05/20	WB SW8270D
2,4-Dinitrotoluene	ND	190	150	ug/Kg	1	08/05/20	WB SW8270D
2,6-Dinitrotoluene	ND	190	120	ug/Kg	1	08/05/20	WB SW8270D
2-Chloronaphthalene	ND	270	110	ug/Kg	1	08/05/20	WB SW8270D
2-Chlorophenol	ND	270	110	ug/Kg	1	08/05/20	WB SW8270D
2-Methylnaphthalene	ND	270	110	ug/Kg	1	08/05/20	WB SW8270D
2-Methylphenol (o-cresol)	ND	270	180	ug/Kg	1	08/05/20	WB SW8270D
2-Nitroaniline	ND	100	100	ug/Kg	1	08/05/20	WB SW8270D
2-Nitrophenol	ND	270	240	ug/Kg	1	08/05/20	WB SW8270D
3&4-Methylphenol (m&p-cresol)	ND	270	150	ug/Kg	1	08/05/20	WB SW8270D
3,3'-Dichlorobenzidine	ND	190	180	ug/Kg	1	08/05/20	WB SW8270D
3-Nitroaniline	ND	91	91	ug/Kg	1	08/05/20	WB SW8270D
4,6-Dinitro-2-methylphenol	ND	230	77	ug/Kg	1	08/05/20	WB SW8270D
4-Bromophenyl phenyl ether	ND	270	110	ug/Kg	1	08/05/20	WB SW8270D
4-Chloro-3-methylphenol	ND	270	140	ug/Kg	1	08/05/20	WB SW8270D
4-Chloroaniline	ND	310	180	ug/Kg	1	08/05/20	WB SW8270D
4-Chlorophenyl phenyl ether	ND	270	130	ug/Kg	1	08/05/20	WB SW8270D
4-Nitroaniline	ND	86	86	ug/Kg	1	08/05/20	WB SW8270D
4-Nitrophenol	ND	390	170	ug/Kg	1	08/05/20	WB SW8270D
Acenaphthene	ND	270	120	ug/Kg	1	08/05/20	WB SW8270D
Acenaphthylene	ND	270	110	ug/Kg	1	08/05/20	WB SW8270D
Acetophenone	ND	270	120	ug/Kg	1	08/05/20	WB SW8270D
Aniline	ND	310	310	ug/Kg	1	08/05/20	WB SW8270D
Anthracene	ND	270	130	ug/Kg	1	08/05/20	WB SW8270D
Benz(a)anthracene	ND	270	130	ug/Kg	1	08/05/20	WB SW8270D
Benzidine	ND	340	230	ug/Kg	1	08/05/20	WB SW8270D
Benzo(a)pyrene	ND	190	130	ug/Kg	1	08/05/20	WB SW8270D
Benzo(b)fluoranthene	ND	270	130	ug/Kg	1	08/05/20	WB SW8270D
Benzo(ghi)perylene	ND	270	120	ug/Kg	1	08/05/20	WB SW8270D
Benzo(k)fluoranthene	ND	270	130	ug/Kg	1	08/05/20	WB SW8270D
Benzoic acid	ND	1900	770	ug/Kg	1	08/05/20	WB SW8270D
Benzyl butyl phthalate	ND	270	99	ug/Kg	1	08/05/20	WB SW8270D
Bis(2-chloroethoxy)methane	ND	270	110	ug/Kg	1	08/05/20	WB SW8270D
Bis(2-chloroethyl)ether	ND	77	77	ug/Kg	1	08/05/20	WB SW8270D
Bis(2-chloroisopropyl)ether	ND	270	110	ug/Kg	1	08/05/20	WB SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	110	ug/Kg	1	08/05/20	WB SW8270D
Carbazole	ND	190	150	ug/Kg	1	08/05/20	WB SW8270D
Chrysene	ND	270	130	ug/Kg	1	08/05/20	WB SW8270D
Dibenz(a,h)anthracene	ND	190	120	ug/Kg	1	08/05/20	WB SW8270D
Dibenzofuran	ND	270	110	ug/Kg	1	08/05/20	WB SW8270D
Diethyl phthalate	ND	270	120	ug/Kg	1	08/05/20	WB SW8270D
Dimethylphthalate	ND	270	120	ug/Kg	1	08/05/20	WB SW8270D
Di-n-butylphthalate	ND	270	100	ug/Kg	1	08/05/20	WB SW8270D
Di-n-octylphthalate	ND	270	99	ug/Kg	1	08/05/20	WB SW8270D
Fluoranthene	ND	270	120	ug/Kg	1	08/05/20	WB SW8270D

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
Fluorene	ND	270	130	ug/Kg	1	08/05/20	WB SW8270D
Hexachlorobenzene	ND	190	110	ug/Kg	1	08/05/20	WB SW8270D
Hexachlorobutadiene	ND	270	140	ug/Kg	1	08/05/20	WB SW8270D
Hexachlorocyclopentadiene	ND	270	120	ug/Kg	1	08/05/20	WB SW8270D
Hexachloroethane	ND	190	120	ug/Kg	1	08/05/20	WB SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	130	ug/Kg	1	08/05/20	WB SW8270D
Isophorone	ND	190	110	ug/Kg	1	08/05/20	WB SW8270D
Naphthalene	ND	270	110	ug/Kg	1	08/05/20	WB SW8270D
Nitrobenzene	ND	190	130	ug/Kg	1	08/05/20	WB SW8270D
N-Nitrosodimethylamine	ND	77	77	ug/Kg	1	08/05/20	WB SW8270D
N-Nitrosodi-n-propylamine	ND	77	77	ug/Kg	1	08/05/20	WB SW8270D
N-Nitrosodiphenylamine	ND	270	150	ug/Kg	1	08/05/20	WB SW8270D
Pentachloronitrobenzene	ND	270	140	ug/Kg	1	08/05/20	WB SW8270D
Pentachlorophenol	ND	230	150	ug/Kg	1	08/05/20	WB SW8270D
Phenanthrene	ND	270	110	ug/Kg	1	08/05/20	WB SW8270D
Phenol	ND	270	120	ug/Kg	1	08/05/20	WB SW8270D
Pyrene	ND	270	130	ug/Kg	1	08/05/20	WB SW8270D
Pyridine	ND	220	95	ug/Kg	1	08/05/20	WB SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	80			%	1	08/05/20	WB 30 - 130 %
% 2-Fluorobiphenyl	69			%	1	08/05/20	WB 30 - 130 %
% 2-Fluorophenol	71			%	1	08/05/20	WB 30 - 130 %
% Nitrobenzene-d5	67			%	1	08/05/20	WB 30 - 130 %
% Phenol-d5	75			%	1	08/05/20	WB 30 - 130 %
% Terphenyl-d14	85			%	1	08/05/20	WB 30 - 130 %
<u>Additional Semi-Volatile Compounds</u>							
1,1-Biphenyl	ND	270	120	ug/Kg	1	08/05/20	WB SW8270D
1,2,4,5-Tetrachlorobenzene	ND	270	140	ug/Kg	1	08/05/20	WB SW8270D
Atrazine	ND	130	77	ug/Kg	1	08/05/20	WB SW8270D
Benzaldehyde	ND	270	110	ug/Kg	1	08/05/20	WB SW8270D
Benzo(a)pyrene	ND	270	130	ug/Kg	1	08/05/20	WB SW8270D
Caprolactam	ND	150	150	ug/Kg	1	08/05/20	WB SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	80			%	1	08/05/20	WB 30 - 130 %
% 2-Fluorobiphenyl	69			%	1	08/05/20	WB 30 - 130 %
% 2-Fluorophenol	71			%	1	08/05/20	WB 30 - 130 %
% Nitrobenzene-d5	67			%	1	08/05/20	WB 30 - 130 %
% Phenol-d5	75			%	1	08/05/20	WB 30 - 130 %
% Terphenyl-d14	85			%	1	08/05/20	WB 30 - 130 %
Pyridine	ND	220		ug/Kg	1	08/05/20	WB SW8270D
Field Extraction	Completed					08/03/20	SW5035A

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Semi-Volatile Comment:

Due to low QC recoveries the RL/PQL of some compounds have been evaluated below the lowest calibration standard in order account for possible sample bias and meet criteria: 2,4-dinitrophenol, 4,6-Dinitro-2-methylphenol, and Benzidine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Semi-Volatile Comment:

To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

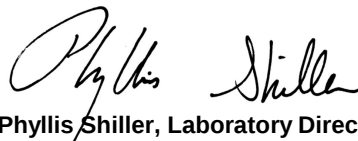
Hexavalent Chromium:

This sample is neither in a reducing or an oxidizing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 07, 2020

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

August 07, 2020

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information

Matrix: SOIL
Location Code: EBC
Rush Request: 72 Hour
P.O.#:

Custody Information

Collected by: DM
Received by: CP
Analyzed by: see "By" below

Date

08/03/20
08/04/20

Time

8:20
15:52

Laboratory Data

SDG ID: GCG47111
Phoenix ID: CG47112

Project ID: 8 WESTCHESTER AVE, NEW ROCHELLE NY
Client ID: 8WB2 FILL

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39		mg/Kg	1	08/05/20	CPP	SW6010D
Aluminum	16100	39		mg/Kg	10	08/05/20	CPP	SW6010D
Arsenic	0.99	0.78		mg/Kg	1	08/05/20	CPP	SW6010D
Barium	126	0.8		mg/Kg	1	08/05/20	CPP	SW6010D
Beryllium	0.38	0.31		mg/Kg	1	08/05/20	CPP	SW6010D
Calcium	1020	3.9		mg/Kg	1	08/05/20	CPP	SW6010D
Cadmium	0.98	0.39		mg/Kg	1	08/05/20	CPP	SW6010D
Cobalt	14.5	0.39		mg/Kg	1	08/05/20	CPP	SW6010D
Chromium	32.6	0.39		mg/Kg	1	08/05/20	CPP	SW6010D
Copper	20.1	0.8		mg/kg	1	08/05/20	CPP	SW6010D
Iron	26300	39		mg/Kg	10	08/05/20	CPP	SW6010D
Mercury	< 0.03	0.03		mg/Kg	2	08/05/20	RS	SW7471B
Potassium	6330	78		mg/Kg	10	08/05/20	CPP	SW6010D
Magnesium	5750	3.9		mg/Kg	1	08/05/20	CPP	SW6010D
Manganese	508	3.9		mg/Kg	10	08/05/20	CPP	SW6010D
Molybdenum	< 0.39	0.39		mg/Kg	1	08/05/20	CPP	SW6010D
Sodium	270	8		mg/Kg	1	08/05/20	CPP	SW6010D
Nickel	25.0	0.39		mg/Kg	1	08/05/20	CPP	SW6010D
Lead	8.9	0.8		mg/Kg	1	08/05/20	CPP	SW6010D
Antimony	< 3.9	3.9		mg/Kg	1	08/05/20	CPP	SW6010D
Selenium	< 1.6	1.6		mg/Kg	1	08/05/20	CPP	SW6010D
Thallium	< 1.6	1.6		mg/Kg	1	08/05/20	CPP	SW6010D
Vanadium	41.3	0.39		mg/Kg	1	08/05/20	CPP	SW6010D
Zinc	52.4	0.8		mg/Kg	1	08/05/20	CPP	SW6010D
Percent Solid	87			%		08/04/20	HB	SW846-%Solid
Chromium, Hex. (SW3060 digestion)	< 0.45	0.45		mg/Kg	1	08/06/20	ARG	SW7196A
pH at 25C - Soil	7.87	1.00		pH Units	1	08/04/20 22:25	MB	SW846 9045
Redox Potential	250			mV	1	08/04/20	MB	SM2580B-09

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
Total Cyanide (SW9010C Distill.)	< 0.57	0.57		mg/Kg	1	08/06/20	EG SW9012B
Soil Extraction for PCB	Completed					08/04/20	L/E SW3545A
Soil Extraction for Pesticides	Completed					08/04/20	L/E SW3545A
Mercury Digestion	Completed					08/05/20	VT/VT SW7471B
Soil Extraction for SVOA	Completed					08/04/20	R/M SW3546
Total Metals Digest	Completed					08/04/20	F/AG/BF SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	75	75	ug/Kg	2	08/06/20	SC SW8082A
PCB-1221	ND	75	75	ug/Kg	2	08/06/20	SC SW8082A
PCB-1232	ND	75	75	ug/Kg	2	08/06/20	SC SW8082A
PCB-1242	ND	75	75	ug/Kg	2	08/06/20	SC SW8082A
PCB-1248	ND	75	75	ug/Kg	2	08/06/20	SC SW8082A
PCB-1254	ND	75	75	ug/Kg	2	08/06/20	SC SW8082A
PCB-1260	ND	75	75	ug/Kg	2	08/06/20	SC SW8082A
PCB-1262	ND	75	75	ug/Kg	2	08/06/20	SC SW8082A
PCB-1268	ND	75	75	ug/Kg	2	08/06/20	SC SW8082A

QA/QC Surrogates

% DCBP	68			%	2	08/06/20	SC 30 - 150 %
% DCBP (Confirmation)	73			%	2	08/06/20	SC 30 - 150 %
% TCMX	63			%	2	08/06/20	SC 30 - 150 %
% TCMX (Confirmation)	66			%	2	08/06/20	SC 30 - 150 %

Pesticides - Soil

4,4' -DDD	ND	2.2		ug/Kg	2	08/05/20	CG SW8081B
4,4' -DDE	ND	2.2		ug/Kg	2	08/05/20	CG SW8081B
4,4' -DDT	ND	2.2		ug/Kg	2	08/05/20	CG SW8081B
a-BHC	ND	7.5		ug/Kg	2	08/05/20	CG SW8081B
a-Chlordane	ND	3.7		ug/Kg	2	08/05/20	CG SW8081B
Aldrin	ND	3.7		ug/Kg	2	08/05/20	CG SW8081B
b-BHC	ND	7.5		ug/Kg	2	08/05/20	CG SW8081B
Chlordane	ND	37		ug/Kg	2	08/05/20	CG SW8081B
d-BHC	ND	7.5		ug/Kg	2	08/05/20	CG SW8081B
Dieldrin	ND	3.7		ug/Kg	2	08/05/20	CG SW8081B
Endosulfan I	ND	7.5		ug/Kg	2	08/05/20	CG SW8081B
Endosulfan II	ND	7.5		ug/Kg	2	08/05/20	CG SW8081B
Endosulfan sulfate	ND	7.5		ug/Kg	2	08/05/20	CG SW8081B
Endrin	ND	7.5		ug/Kg	2	08/05/20	CG SW8081B
Endrin aldehyde	ND	7.5		ug/Kg	2	08/05/20	CG SW8081B
Endrin ketone	ND	7.5		ug/Kg	2	08/05/20	CG SW8081B
g-BHC	ND	1.5		ug/Kg	2	08/05/20	CG SW8081B
g-Chlordane	ND	3.7		ug/Kg	2	08/05/20	CG SW8081B
Heptachlor	ND	7.5		ug/Kg	2	08/05/20	CG SW8081B
Heptachlor epoxide	ND	7.5		ug/Kg	2	08/05/20	CG SW8081B
Methoxychlor	ND	37		ug/Kg	2	08/05/20	CG SW8081B
Toxaphene	ND	150		ug/Kg	2	08/05/20	CG SW8081B

QA/QC Surrogates

% DCBP	71			%	2	08/05/20	CG 30 - 150 %
% DCBP (Confirmation)	74			%	2	08/05/20	CG 30 - 150 %
% TCMX	53			%	2	08/05/20	CG 30 - 150 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	
% TCMX (Confirmation)	55			%	2	08/05/20	CG	30 - 150 %
Volatiles								
1,1,1,2-Tetrachloroethane	ND	4.2	0.84	ug/Kg	1	08/05/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.2	0.84	ug/Kg	1	08/05/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.2	0.84	ug/Kg	1	08/05/20	JLI	SW8260C
1,1-Dichloroethane	ND	4.2	0.84	ug/Kg	1	08/05/20	JLI	SW8260C
1,1-Dichloroethene	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI	SW8260C
1,1-Dichloropropene	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.2	0.84	ug/Kg	1	08/05/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.2	0.84	ug/Kg	1	08/05/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.2	0.84	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dibromoethane	ND	1.2	0.42	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dichloroethane	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dichloropropane	ND	4.2	0.84	ug/Kg	1	08/05/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI	SW8260C
1,3-Dichloropropane	ND	4.2	0.84	ug/Kg	1	08/05/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI	SW8260C
2,2-Dichloropropane	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI	SW8260C
2-Chlorotoluene	ND	4.2	0.84	ug/Kg	1	08/05/20	JLI	SW8260C
2-Hexanone	ND	21	4.2	ug/Kg	1	08/05/20	JLI	SW8260C
2-Isopropyltoluene	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI	SW8260C
4-Chlorotoluene	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	21	4.2	ug/Kg	1	08/05/20	JLI	SW8260C
Acetone	ND	21	4.2	ug/Kg	1	08/05/20	JLI	SW8260C
Acrylonitrile	ND	8.4	0.84	ug/Kg	1	08/05/20	JLI	SW8260C
Benzene	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI	SW8260C
Bromobenzene	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI	SW8260C
Bromochloromethane	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI	SW8260C
Bromodichloromethane	ND	4.2	0.84	ug/Kg	1	08/05/20	JLI	SW8260C
Bromoform	ND	4.2	0.84	ug/Kg	1	08/05/20	JLI	SW8260C
Bromomethane	ND	4.2	1.7	ug/Kg	1	08/05/20	JLI	SW8260C
Carbon Disulfide	ND	4.2	0.84	ug/Kg	1	08/05/20	JLI	SW8260C
Carbon tetrachloride	ND	4.2	0.84	ug/Kg	1	08/05/20	JLI	SW8260C
Chlorobenzene	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI	SW8260C
Chloroethane	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI	SW8260C
Chloroform	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI	SW8260C
Chloromethane	ND	4.2	0.84	ug/Kg	1	08/05/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI	SW8260C
Dibromochloromethane	ND	4.2	0.84	ug/Kg	1	08/05/20	JLI	SW8260C
Dibromomethane	ND	4.2	0.84	ug/Kg	1	08/05/20	JLI	SW8260C
Dichlorodifluoromethane	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI	SW8260C
Ethylbenzene	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI	SW8260C
Hexachlorobutadiene	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
Isopropylbenzene	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI SW8260C
m&p-Xylene	ND	4.2	0.84	ug/Kg	1	08/05/20	JLI SW8260C
Methyl Ethyl Ketone	ND	25	4.2	ug/Kg	1	08/05/20	JLI SW8260C
Methyl t-butyl ether (MTBE)	ND	8.4	0.84	ug/Kg	1	08/05/20	JLI SW8260C
Methylene chloride	ND	4.2	4.2	ug/Kg	1	08/05/20	JLI SW8260C
Naphthalene	ND	4.2	0.84	ug/Kg	1	08/05/20	JLI SW8260C
n-Butylbenzene	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI SW8260C
n-Propylbenzene	ND	4.2	0.84	ug/Kg	1	08/05/20	JLI SW8260C
o-Xylene	ND	4.2	0.84	ug/Kg	1	08/05/20	JLI SW8260C
p-Isopropyltoluene	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI SW8260C
sec-Butylbenzene	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI SW8260C
Styrene	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI SW8260C
tert-Butylbenzene	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI SW8260C
Tetrachloroethene	ND	4.2	0.84	ug/Kg	1	08/05/20	JLI SW8260C
Tetrahydrofuran (THF)	ND	8.4	2.1	ug/Kg	1	08/05/20	JLI SW8260C
Toluene	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI SW8260C
trans-1,2-Dichloroethene	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI SW8260C
trans-1,3-Dichloropropene	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI SW8260C
trans-1,4-dichloro-2-butene	ND	8.4	2.1	ug/Kg	1	08/05/20	JLI SW8260C
Trichloroethene	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI SW8260C
Trichlorofluoromethane	ND	4.2	0.84	ug/Kg	1	08/05/20	JLI SW8260C
Trichlorotrifluoroethane	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI SW8260C
Vinyl chloride	ND	4.2	0.42	ug/Kg	1	08/05/20	JLI SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100			%	1	08/05/20	JLI 70 - 130 %
% Bromofluorobenzene	96			%	1	08/05/20	JLI 70 - 130 %
% Dibromofluoromethane	91			%	1	08/05/20	JLI 70 - 130 %
% Toluene-d8	98			%	1	08/05/20	JLI 70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	63		ug/kg	1	08/05/20	JLI SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100			%	1	08/05/20	JLI 70 - 130 %
% Bromofluorobenzene	96			%	1	08/05/20	JLI 70 - 130 %
% Dibromofluoromethane	91			%	1	08/05/20	JLI 70 - 130 %
% Toluene-d8	98			%	1	08/05/20	JLI 70 - 130 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	17		ug/Kg	1	08/05/20	JLI SW8260C
Acrolein	ND	1.4		ug/Kg	1	08/05/20	JLI SW8260C
Acrylonitrile	ND	17		ug/Kg	1	08/05/20	JLI SW8260C
Tert-butyl alcohol	ND	84		ug/Kg	1	08/05/20	JLI SW8260C
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	260	130	ug/Kg	1	08/05/20	WB SW8270D
1,2,4-Trichlorobenzene	ND	260	110	ug/Kg	1	08/05/20	WB SW8270D
1,2-Dichlorobenzene	ND	260	100	ug/Kg	1	08/05/20	WB SW8270D
1,2-Diphenylhydrazine	ND	260	120	ug/Kg	1	08/05/20	WB SW8270D
1,3-Dichlorobenzene	ND	260	110	ug/Kg	1	08/05/20	WB SW8270D
1,4-Dichlorobenzene	ND	260	110	ug/Kg	1	08/05/20	WB SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
2,4,5-Trichlorophenol	ND	260	200	ug/Kg	1	08/05/20	WB SW8270D
2,4,6-Trichlorophenol	ND	190	120	ug/Kg	1	08/05/20	WB SW8270D
2,4-Dichlorophenol	ND	190	130	ug/Kg	1	08/05/20	WB SW8270D
2,4-Dimethylphenol	ND	260	92	ug/Kg	1	08/05/20	WB SW8270D
2,4-Dinitrophenol	ND	260	260	ug/Kg	1	08/05/20	WB SW8270D
2,4-Dinitrotoluene	ND	190	150	ug/Kg	1	08/05/20	WB SW8270D
2,6-Dinitrotoluene	ND	190	120	ug/Kg	1	08/05/20	WB SW8270D
2-Chloronaphthalene	ND	260	110	ug/Kg	1	08/05/20	WB SW8270D
2-Chlorophenol	ND	260	110	ug/Kg	1	08/05/20	WB SW8270D
2-Methylnaphthalene	ND	260	110	ug/Kg	1	08/05/20	WB SW8270D
2-Methylphenol (o-cresol)	ND	260	170	ug/Kg	1	08/05/20	WB SW8270D
2-Nitroaniline	ND	100	100	ug/Kg	1	08/05/20	WB SW8270D
2-Nitrophenol	ND	260	240	ug/Kg	1	08/05/20	WB SW8270D
3&4-Methylphenol (m&p-cresol)	ND	260	150	ug/Kg	1	08/05/20	WB SW8270D
3,3'-Dichlorobenzidine	ND	190	180	ug/Kg	1	08/05/20	WB SW8270D
3-Nitroaniline	ND	91	91	ug/Kg	1	08/05/20	WB SW8270D
4,6-Dinitro-2-methylphenol	ND	220	74	ug/Kg	1	08/05/20	WB SW8270D
4-Bromophenyl phenyl ether	ND	260	110	ug/Kg	1	08/05/20	WB SW8270D
4-Chloro-3-methylphenol	ND	260	130	ug/Kg	1	08/05/20	WB SW8270D
4-Chloroaniline	ND	300	170	ug/Kg	1	08/05/20	WB SW8270D
4-Chlorophenyl phenyl ether	ND	260	120	ug/Kg	1	08/05/20	WB SW8270D
4-Nitroaniline	ND	86	86	ug/Kg	1	08/05/20	WB SW8270D
4-Nitrophenol	ND	370	170	ug/Kg	1	08/05/20	WB SW8270D
Acenaphthene	ND	260	110	ug/Kg	1	08/05/20	WB SW8270D
Acenaphthylene	ND	260	100	ug/Kg	1	08/05/20	WB SW8270D
Acetophenone	ND	260	120	ug/Kg	1	08/05/20	WB SW8270D
Aniline	ND	300	300	ug/Kg	1	08/05/20	WB SW8270D
Anthracene	ND	260	120	ug/Kg	1	08/05/20	WB SW8270D
Benz(a)anthracene	ND	260	120	ug/Kg	1	08/05/20	WB SW8270D
Benzidine	ND	340	220	ug/Kg	1	08/05/20	WB SW8270D
Benzo(a)pyrene	ND	190	120	ug/Kg	1	08/05/20	WB SW8270D
Benzo(b)fluoranthene	ND	260	130	ug/Kg	1	08/05/20	WB SW8270D
Benzo(ghi)perylene	ND	260	120	ug/Kg	1	08/05/20	WB SW8270D
Benzo(k)fluoranthene	ND	260	120	ug/Kg	1	08/05/20	WB SW8270D
Benzoic acid	ND	1900	740	ug/Kg	1	08/05/20	WB SW8270D
Benzyl butyl phthalate	ND	260	96	ug/Kg	1	08/05/20	WB SW8270D
Bis(2-chloroethoxy)methane	ND	260	100	ug/Kg	1	08/05/20	WB SW8270D
Bis(2-chloroethyl)ether	ND	74	74	ug/Kg	1	08/05/20	WB SW8270D
Bis(2-chloroisopropyl)ether	ND	260	100	ug/Kg	1	08/05/20	WB SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	110	ug/Kg	1	08/05/20	WB SW8270D
Carbazole	ND	190	150	ug/Kg	1	08/05/20	WB SW8270D
Chrysene	ND	260	120	ug/Kg	1	08/05/20	WB SW8270D
Dibenz(a,h)anthracene	ND	190	120	ug/Kg	1	08/05/20	WB SW8270D
Dibenzofuran	ND	260	110	ug/Kg	1	08/05/20	WB SW8270D
Diethyl phthalate	ND	260	120	ug/Kg	1	08/05/20	WB SW8270D
Dimethylphthalate	ND	260	120	ug/Kg	1	08/05/20	WB SW8270D
Di-n-butylphthalate	ND	260	99	ug/Kg	1	08/05/20	WB SW8270D
Di-n-octylphthalate	ND	260	96	ug/Kg	1	08/05/20	WB SW8270D
Fluoranthene	ND	260	120	ug/Kg	1	08/05/20	WB SW8270D

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
Fluorene	ND	260	120	ug/Kg	1	08/05/20	WB SW8270D
Hexachlorobenzene	ND	190	110	ug/Kg	1	08/05/20	WB SW8270D
Hexachlorobutadiene	ND	260	130	ug/Kg	1	08/05/20	WB SW8270D
Hexachlorocyclopentadiene	ND	260	110	ug/Kg	1	08/05/20	WB SW8270D
Hexachloroethane	ND	190	110	ug/Kg	1	08/05/20	WB SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	120	ug/Kg	1	08/05/20	WB SW8270D
Isophorone	ND	190	100	ug/Kg	1	08/05/20	WB SW8270D
Naphthalene	ND	260	110	ug/Kg	1	08/05/20	WB SW8270D
Nitrobenzene	ND	190	130	ug/Kg	1	08/05/20	WB SW8270D
N-Nitrosodimethylamine	ND	74	74	ug/Kg	1	08/05/20	WB SW8270D
N-Nitrosodi-n-propylamine	ND	74	74	ug/Kg	1	08/05/20	WB SW8270D
N-Nitrosodiphenylamine	ND	260	140	ug/Kg	1	08/05/20	WB SW8270D
Pentachloronitrobenzene	ND	260	140	ug/Kg	1	08/05/20	WB SW8270D
Pentachlorophenol	ND	220	140	ug/Kg	1	08/05/20	WB SW8270D
Phenanthrene	ND	260	110	ug/Kg	1	08/05/20	WB SW8270D
Phenol	ND	260	120	ug/Kg	1	08/05/20	WB SW8270D
Pyrene	ND	260	130	ug/Kg	1	08/05/20	WB SW8270D
Pyridine	ND	220	92	ug/Kg	1	08/05/20	WB SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	80			%	1	08/05/20	WB 30 - 130 %
% 2-Fluorobiphenyl	69			%	1	08/05/20	WB 30 - 130 %
% 2-Fluorophenol	72			%	1	08/05/20	WB 30 - 130 %
% Nitrobenzene-d5	66			%	1	08/05/20	WB 30 - 130 %
% Phenol-d5	72			%	1	08/05/20	WB 30 - 130 %
% Terphenyl-d14	79			%	1	08/05/20	WB 30 - 130 %
<u>Additional Semi-Volatile Compounds</u>							
1,1-Biphenyl	ND	260	110	ug/Kg	1	08/05/20	WB SW8270D
1,2,4,5-Tetrachlorobenzene	ND	260	130	ug/Kg	1	08/05/20	WB SW8270D
Atrazine	ND	130	74	ug/Kg	1	08/05/20	WB SW8270D
Benzaldehyde	ND	260	110	ug/Kg	1	08/05/20	WB SW8270D
Benzo(a)pyrene	ND	260	120	ug/Kg	1	08/05/20	WB SW8270D
Caprolactam	ND	150	150	ug/Kg	1	08/05/20	WB SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	80			%	1	08/05/20	WB 30 - 130 %
% 2-Fluorobiphenyl	69			%	1	08/05/20	WB 30 - 130 %
% 2-Fluorophenol	72			%	1	08/05/20	WB 30 - 130 %
% Nitrobenzene-d5	66			%	1	08/05/20	WB 30 - 130 %
% Phenol-d5	72			%	1	08/05/20	WB 30 - 130 %
% Terphenyl-d14	79			%	1	08/05/20	WB 30 - 130 %
Pyridine	ND	220		ug/Kg	1	08/05/20	WB SW8270D
Field Extraction	Completed					08/03/20	SW5035A

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Semi-Volatile Comment:

Due to low QC recoveries the RL/PQL of some compounds have been evaluated below the lowest calibration standard in order account for possible sample bias and meet criteria: 2,4-dinitrophenol, 4,6-Dinitro-2-methylphenol, and Benzidine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Semi-Volatile Comment:

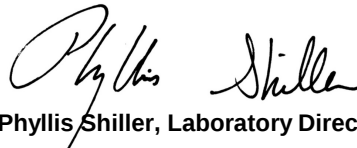
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Hexavalent Chromium:

This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 07, 2020

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

August 07, 2020

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information

Matrix: SOIL
Location Code: EBC
Rush Request: 72 Hour
P.O.#:

Custody Information

Collected by: DM
Received by: CP
Analyzed by: see "By" below

Date

08/03/20
08/04/20

Time

9:38
15:52

Laboratory Data

SDG ID: GCG47111
Phoenix ID: CG47113

Project ID: 8 WESTCHESTER AVE, NEW ROCHELLE NY
Client ID: 8WB3 FILL

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39		mg/Kg	1	08/05/20	CPP	SW6010D
Aluminum	10500	39		mg/Kg	10	08/05/20	CPP	SW6010D
Arsenic	7.27	0.77		mg/Kg	1	08/05/20	CPP	SW6010D
Barium	73.3	0.8		mg/Kg	1	08/05/20	CPP	SW6010D
Beryllium	0.67	0.31		mg/Kg	1	08/05/20	CPP	SW6010D
Calcium	58300	39		mg/Kg	10	08/05/20	CPP	SW6010D
Cadmium	0.72	0.39		mg/Kg	1	08/05/20	CPP	SW6010D
Cobalt	7.07	0.39		mg/Kg	1	08/05/20	CPP	SW6010D
Chromium	14.8	0.39		mg/Kg	1	08/05/20	CPP	SW6010D
Copper	20.4	0.8		mg/kg	1	08/05/20	CPP	SW6010D
Iron	16300	39		mg/Kg	10	08/05/20	CPP	SW6010D
Mercury	< 0.07	0.07		mg/Kg	5	08/05/20	RS	SW7471B
Potassium	2490	8		mg/Kg	1	08/05/20	CPP	SW6010D
Magnesium	3750	3.9		mg/Kg	1	08/05/20	CPP	SW6010D
Manganese	269	3.9		mg/Kg	10	08/05/20	CPP	SW6010D
Molybdenum	0.46	0.39		mg/Kg	1	08/05/20	CPP	SW6010D
Sodium	830	8		mg/Kg	1	08/05/20	CPP	SW6010D
Nickel	16.0	0.39		mg/Kg	1	08/05/20	CPP	SW6010D
Lead	19.7	0.8		mg/Kg	1	08/05/20	CPP	SW6010D
Antimony	< 3.9	3.9		mg/Kg	1	08/05/20	CPP	SW6010D
Selenium	< 1.5	1.5		mg/Kg	1	08/05/20	CPP	SW6010D
Thallium	< 1.5	1.5		mg/Kg	1	08/05/20	CPP	SW6010D
Vanadium	22.7	0.39		mg/Kg	1	08/05/20	CPP	SW6010D
Zinc	24.3	0.8		mg/Kg	1	08/05/20	CPP	SW6010D
Percent Solid	83			%		08/04/20	HB	SW846-%Solid
Chromium, Hex. (SW3060 digestion)	< 0.46	0.46		mg/Kg	1	08/06/20	ARG	SW7196A
pH at 25C - Soil	10.7	1.00		pH Units	1	08/04/20 22:26	MB	SW846 9045
Redox Potential	123			mV	1	08/04/20	MB	SM2580B-09

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
Total Cyanide (SW9010C Distill.)	< 0.60	0.60		mg/Kg	1	08/06/20	EG SW9012B
Soil Extraction for PCB	Completed					08/04/20	L/E SW3545A
Soil Extraction for Pesticides	Completed					08/04/20	L/E SW3545A
Mercury Digestion	Completed					08/05/20	VT/VT SW7471B
Soil Extraction for SVOA	Completed					08/04/20	R/M SW3546
Total Metals Digest	Completed					08/04/20	F/AG/BF SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	79	79	ug/Kg	2	08/05/20	SC SW8082A
PCB-1221	ND	79	79	ug/Kg	2	08/05/20	SC SW8082A
PCB-1232	ND	79	79	ug/Kg	2	08/05/20	SC SW8082A
PCB-1242	ND	79	79	ug/Kg	2	08/05/20	SC SW8082A
PCB-1248	ND	79	79	ug/Kg	2	08/05/20	SC SW8082A
PCB-1254	ND	79	79	ug/Kg	2	08/05/20	SC SW8082A
PCB-1260	ND	79	79	ug/Kg	2	08/05/20	SC SW8082A
PCB-1262	ND	79	79	ug/Kg	2	08/05/20	SC SW8082A
PCB-1268	ND	79	79	ug/Kg	2	08/05/20	SC SW8082A

QA/QC Surrogates

% DCBP	71			%	2	08/05/20	SC 30 - 150 %
% DCBP (Confirmation)	64			%	2	08/05/20	SC 30 - 150 %
% TCMX	64			%	2	08/05/20	SC 30 - 150 %
% TCMX (Confirmation)	66			%	2	08/05/20	SC 30 - 150 %

Pesticides - Soil

4,4' -DDD	ND	2.4		ug/Kg	2	08/05/20	CG SW8081B
4,4' -DDE	ND	2.4		ug/Kg	2	08/05/20	CG SW8081B
4,4' -DDT	ND	2.4		ug/Kg	2	08/05/20	CG SW8081B
a-BHC	ND	7.9		ug/Kg	2	08/05/20	CG SW8081B
a-Chlordane	ND	4.0		ug/Kg	2	08/05/20	CG SW8081B
Aldrin	ND	4.0		ug/Kg	2	08/05/20	CG SW8081B
b-BHC	ND	7.9		ug/Kg	2	08/05/20	CG SW8081B
Chlordane	ND	40		ug/Kg	2	08/05/20	CG SW8081B
d-BHC	ND	7.9		ug/Kg	2	08/05/20	CG SW8081B
Dieldrin	ND	4.0		ug/Kg	2	08/05/20	CG SW8081B
Endosulfan I	ND	7.9		ug/Kg	2	08/05/20	CG SW8081B
Endosulfan II	ND	7.9		ug/Kg	2	08/05/20	CG SW8081B
Endosulfan sulfate	ND	7.9		ug/Kg	2	08/05/20	CG SW8081B
Endrin	ND	7.9		ug/Kg	2	08/05/20	CG SW8081B
Endrin aldehyde	ND	7.9		ug/Kg	2	08/05/20	CG SW8081B
Endrin ketone	ND	7.9		ug/Kg	2	08/05/20	CG SW8081B
g-BHC	ND	1.6		ug/Kg	2	08/05/20	CG SW8081B
g-Chlordane	ND	4.0		ug/Kg	2	08/05/20	CG SW8081B
Heptachlor	ND	7.9		ug/Kg	2	08/05/20	CG SW8081B
Heptachlor epoxide	ND	7.9		ug/Kg	2	08/05/20	CG SW8081B
Methoxychlor	ND	40		ug/Kg	2	08/05/20	CG SW8081B
Toxaphene	ND	160		ug/Kg	2	08/05/20	CG SW8081B

QA/QC Surrogates

% DCBP	64			%	2	08/05/20	CG 30 - 150 %
% DCBP (Confirmation)	64			%	2	08/05/20	CG 30 - 150 %
% TCMX	56			%	2	08/05/20	CG 30 - 150 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	
% TCMX (Confirmation)	57			%	2	08/05/20	CG	30 - 150 %
Volatiles								
1,1,1,2-Tetrachloroethane	ND	3.9	0.78	ug/Kg	1	08/05/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	3.9	0.39	ug/Kg	1	08/05/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.9	0.78	ug/Kg	1	08/05/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	3.9	0.78	ug/Kg	1	08/05/20	JLI	SW8260C
1,1-Dichloroethane	ND	3.9	0.78	ug/Kg	1	08/05/20	JLI	SW8260C
1,1-Dichloroethene	ND	3.9	0.39	ug/Kg	1	08/05/20	JLI	SW8260C
1,1-Dichloropropene	ND	3.9	0.39	ug/Kg	1	08/05/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	3.9	0.78	ug/Kg	1	08/05/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	3.9	0.39	ug/Kg	1	08/05/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	3.9	0.78	ug/Kg	1	08/05/20	JLI	SW8260C
1,2,4-Trimethylbenzene	530	290	29	ug/Kg	50	08/06/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	3.9	0.78	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dibromoethane	ND	1.2	0.39	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	3.9	0.39	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dichloroethane	ND	3.9	0.39	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dichloropropane	ND	3.9	0.78	ug/Kg	1	08/05/20	JLI	SW8260C
1,3,5-Trimethylbenzene	140	J 290	29	ug/Kg	50	08/06/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	3.9	0.39	ug/Kg	1	08/05/20	JLI	SW8260C
1,3-Dichloropropane	ND	3.9	0.78	ug/Kg	1	08/05/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	3.9	0.39	ug/Kg	1	08/05/20	JLI	SW8260C
2,2-Dichloropropane	ND	3.9	0.39	ug/Kg	1	08/05/20	JLI	SW8260C
2-Chlorotoluene	ND	3.9	0.78	ug/Kg	1	08/05/20	JLI	SW8260C
2-Hexanone	ND	20	3.9	ug/Kg	1	08/05/20	JLI	SW8260C
2-Isopropyltoluene	ND	3.9	0.39	ug/Kg	1	08/05/20	JLI	SW8260C
4-Chlorotoluene	ND	3.9	0.39	ug/Kg	1	08/05/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	20	3.9	ug/Kg	1	08/05/20	JLI	SW8260C
Acetone	7.3	JS 20	3.9	ug/Kg	1	08/05/20	JLI	SW8260C
Acrylonitrile	ND	7.8	0.78	ug/Kg	1	08/05/20	JLI	SW8260C
Benzene	98	60	29	ug/Kg	50	08/06/20	JLI	SW8260C
Bromobenzene	ND	3.9	0.39	ug/Kg	1	08/05/20	JLI	SW8260C
Bromochloromethane	ND	3.9	0.39	ug/Kg	1	08/05/20	JLI	SW8260C
Bromodichloromethane	ND	3.9	0.78	ug/Kg	1	08/05/20	JLI	SW8260C
Bromoform	ND	3.9	0.78	ug/Kg	1	08/05/20	JLI	SW8260C
Bromomethane	ND	3.9	1.6	ug/Kg	1	08/05/20	JLI	SW8260C
Carbon Disulfide	ND	3.9	0.78	ug/Kg	1	08/05/20	JLI	SW8260C
Carbon tetrachloride	ND	3.9	0.78	ug/Kg	1	08/05/20	JLI	SW8260C
Chlorobenzene	ND	3.9	0.39	ug/Kg	1	08/05/20	JLI	SW8260C
Chloroethane	ND	3.9	0.39	ug/Kg	1	08/05/20	JLI	SW8260C
Chloroform	ND	3.9	0.39	ug/Kg	1	08/05/20	JLI	SW8260C
Chloromethane	ND	3.9	0.78	ug/Kg	1	08/05/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	3.9	0.39	ug/Kg	1	08/05/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	3.9	0.39	ug/Kg	1	08/05/20	JLI	SW8260C
Dibromochloromethane	ND	3.9	0.78	ug/Kg	1	08/05/20	JLI	SW8260C
Dibromomethane	ND	3.9	0.78	ug/Kg	1	08/05/20	JLI	SW8260C
Dichlorodifluoromethane	ND	3.9	0.39	ug/Kg	1	08/05/20	JLI	SW8260C
Ethylbenzene	520	290	29	ug/Kg	50	08/06/20	JLI	SW8260C
Hexachlorobutadiene	ND	3.9	0.39	ug/Kg	1	08/05/20	JLI	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
Isopropylbenzene	0.79	J 3.9	0.39	ug/Kg	1	08/05/20	JLI SW8260C
m&p-Xylene	2000	290	57	ug/Kg	50	08/06/20	JLI SW8260C
Methyl Ethyl Ketone	ND	23	3.9	ug/Kg	1	08/05/20	JLI SW8260C
Methyl t-butyl ether (MTBE)	ND	7.8	0.78	ug/Kg	1	08/05/20	JLI SW8260C
Methylene chloride	ND	3.9	3.9	ug/Kg	1	08/05/20	JLI SW8260C
Naphthalene	0.88	J 3.9	0.78	ug/Kg	1	08/05/20	JLI SW8260C
n-Butylbenzene	70	J 290	29	ug/Kg	50	08/06/20	JLI SW8260C
n-Propylbenzene	220	J 290	57	ug/Kg	50	08/06/20	JLI SW8260C
o-Xylene	370	290	57	ug/Kg	50	08/06/20	JLI SW8260C
p-Isopropyltoluene	ND	3.9	0.39	ug/Kg	1	08/05/20	JLI SW8260C
sec-Butylbenzene	ND	3.9	0.39	ug/Kg	1	08/05/20	JLI SW8260C
Styrene	ND	3.9	0.39	ug/Kg	1	08/05/20	JLI SW8260C
tert-Butylbenzene	ND	3.9	0.39	ug/Kg	1	08/05/20	JLI SW8260C
Tetrachloroethene	ND	3.9	0.78	ug/Kg	1	08/05/20	JLI SW8260C
Tetrahydrofuran (THF)	ND	7.8	2.0	ug/Kg	1	08/05/20	JLI SW8260C
Toluene	1400	290	29	ug/Kg	50	08/06/20	JLI SW8260C
trans-1,2-Dichloroethene	ND	3.9	0.39	ug/Kg	1	08/05/20	JLI SW8260C
trans-1,3-Dichloropropene	ND	3.9	0.39	ug/Kg	1	08/05/20	JLI SW8260C
trans-1,4-dichloro-2-butene	ND	7.8	2.0	ug/Kg	1	08/05/20	JLI SW8260C
Trichloroethene	ND	3.9	0.39	ug/Kg	1	08/05/20	JLI SW8260C
Trichlorofluoromethane	ND	3.9	0.78	ug/Kg	1	08/05/20	JLI SW8260C
Trichlorotrifluoroethane	ND	3.9	0.39	ug/Kg	1	08/05/20	JLI SW8260C
Vinyl chloride	ND	3.9	0.39	ug/Kg	1	08/05/20	JLI SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	104			%	1	08/05/20	JLI 70 - 130 %
% Bromofluorobenzene	95			%	1	08/05/20	JLI 70 - 130 %
% Dibromofluoromethane	90			%	1	08/05/20	JLI 70 - 130 %
% Toluene-d8	99			%	1	08/05/20	JLI 70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	101			%	50	08/06/20	JLI 70 - 130 %
% Bromofluorobenzene (50x)	98			%	50	08/06/20	JLI 70 - 130 %
% Dibromofluoromethane (50x)	89			%	50	08/06/20	JLI 70 - 130 %
% Toluene-d8 (50x)	98			%	50	08/06/20	JLI 70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	59		ug/kg	1	08/05/20	JLI SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	104			%	1	08/05/20	JLI 70 - 130 %
% Bromofluorobenzene	95			%	1	08/05/20	JLI 70 - 130 %
% Dibromofluoromethane	90			%	1	08/05/20	JLI 70 - 130 %
% Toluene-d8	99			%	1	08/05/20	JLI 70 - 130 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	16		ug/Kg	1	08/05/20	JLI SW8260C
Acrolein	ND	1.4		ug/Kg	1	08/05/20	JLI SW8260C
Acrylonitrile	ND	16		ug/Kg	1	08/05/20	JLI SW8260C
Tert-butyl alcohol	ND	78		ug/Kg	1	08/05/20	JLI SW8260C
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	280	140	ug/Kg	1	08/05/20	PS SW8270D
1,2,4-Trichlorobenzene	ND	280	120	ug/Kg	1	08/05/20	PS SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
1,2-Dichlorobenzene	ND	280	110	ug/Kg	1	08/05/20	PS SW8270D
1,2-Diphenylhydrazine	ND	280	130	ug/Kg	1	08/05/20	PS SW8270D
1,3-Dichlorobenzene	ND	280	120	ug/Kg	1	08/05/20	PS SW8270D
1,4-Dichlorobenzene	ND	280	120	ug/Kg	1	08/05/20	PS SW8270D
2,4,5-Trichlorophenol	ND	280	220	ug/Kg	1	08/05/20	PS SW8270D
2,4,6-Trichlorophenol	ND	200	130	ug/Kg	1	08/05/20	PS SW8270D
2,4-Dichlorophenol	ND	200	140	ug/Kg	1	08/05/20	PS SW8270D
2,4-Dimethylphenol	ND	280	97	ug/Kg	1	08/05/20	PS SW8270D
2,4-Dinitrophenol	ND	280	280	ug/Kg	1	08/05/20	PS SW8270D
2,4-Dinitrotoluene	ND	200	150	ug/Kg	1	08/05/20	PS SW8270D
2,6-Dinitrotoluene	ND	200	120	ug/Kg	1	08/05/20	PS SW8270D
2-Chloronaphthalene	ND	280	110	ug/Kg	1	08/05/20	PS SW8270D
2-Chlorophenol	ND	280	110	ug/Kg	1	08/05/20	PS SW8270D
2-Methylnaphthalene	770	280	120	ug/Kg	1	08/05/20	PS SW8270D
2-Methylphenol (o-cresol)	ND	280	180	ug/Kg	1	08/05/20	PS SW8270D
2-Nitroaniline	ND	100	100	ug/Kg	1	08/05/20	PS SW8270D
2-Nitrophenol	ND	280	250	ug/Kg	1	08/05/20	PS SW8270D
3&4-Methylphenol (m&p-cresol)	ND	280	150	ug/Kg	1	08/05/20	PS SW8270D
3,3'-Dichlorobenzidine	ND	200	190	ug/Kg	1	08/05/20	PS SW8270D
3-Nitroaniline	ND	91	91	ug/Kg	1	08/05/20	PS SW8270D
4,6-Dinitro-2-methylphenol	ND	240	79	ug/Kg	1	08/05/20	PS SW8270D
4-Bromophenyl phenyl ether	ND	280	120	ug/Kg	1	08/05/20	PS SW8270D
4-Chloro-3-methylphenol	ND	280	140	ug/Kg	1	08/05/20	PS SW8270D
4-Chloroaniline	ND	310	180	ug/Kg	1	08/05/20	PS SW8270D
4-Chlorophenyl phenyl ether	ND	280	130	ug/Kg	1	08/05/20	PS SW8270D
4-Nitroaniline	ND	86	86	ug/Kg	1	08/05/20	PS SW8270D
4-Nitrophenol	ND	390	180	ug/Kg	1	08/05/20	PS SW8270D
Acenaphthene	ND	280	120	ug/Kg	1	08/05/20	PS SW8270D
Acenaphthylene	ND	280	110	ug/Kg	1	08/05/20	PS SW8270D
Acetophenone	ND	790	790	ug/Kg	1	08/05/20	PS SW8270D
Aniline	ND	310	310	ug/Kg	1	08/05/20	PS SW8270D
Anthracene	ND	280	130	ug/Kg	1	08/05/20	PS SW8270D
Benz(a)anthracene	170	J 280	130	ug/Kg	1	08/05/20	PS SW8270D
Benzidine	ND	340	230	ug/Kg	1	08/05/20	PS SW8270D
Benzo(a)pyrene	ND	200	130	ug/Kg	1	08/05/20	PS SW8270D
Benzo(b)fluoranthene	ND	280	130	ug/Kg	1	08/05/20	PS SW8270D
Benzo(ghi)perylene	ND	280	130	ug/Kg	1	08/05/20	PS SW8270D
Benzo(k)fluoranthene	ND	280	130	ug/Kg	1	08/05/20	PS SW8270D
Benzoic acid	ND	2000	790	ug/Kg	1	08/05/20	PS SW8270D
Benzyl butyl phthalate	ND	280	100	ug/Kg	1	08/05/20	PS SW8270D
Bis(2-chloroethoxy)methane	ND	280	110	ug/Kg	1	08/05/20	PS SW8270D
Bis(2-chloroethyl)ether	ND	79	79	ug/Kg	1	08/05/20	PS SW8270D
Bis(2-chloroisopropyl)ether	ND	280	110	ug/Kg	1	08/05/20	PS SW8270D
Bis(2-ethylhexyl)phthalate	ND	280	110	ug/Kg	1	08/05/20	PS SW8270D
Carbazole	ND	200	160	ug/Kg	1	08/05/20	PS SW8270D
Chrysene	230	J 280	130	ug/Kg	1	08/05/20	PS SW8270D
Dibenz(a,h)anthracene	ND	200	130	ug/Kg	1	08/05/20	PS SW8270D
Dibenzofuran	ND	280	110	ug/Kg	1	08/05/20	PS SW8270D
Diethyl phthalate	ND	280	120	ug/Kg	1	08/05/20	PS SW8270D

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
Dimethylphthalate	ND	280	120	ug/Kg	1	08/05/20	PS SW8270D
Di-n-butylphthalate	ND	280	100	ug/Kg	1	08/05/20	PS SW8270D
Di-n-octylphthalate	ND	280	100	ug/Kg	1	08/05/20	PS SW8270D
Fluoranthene	330	280	130	ug/Kg	1	08/05/20	PS SW8270D
Fluorene	ND	280	130	ug/Kg	1	08/05/20	PS SW8270D
Hexachlorobenzene	ND	200	110	ug/Kg	1	08/05/20	PS SW8270D
Hexachlorobutadiene	ND	280	140	ug/Kg	1	08/05/20	PS SW8270D
Hexachlorocyclopentadiene	ND	280	120	ug/Kg	1	08/05/20	PS SW8270D
Hexachloroethane	ND	200	120	ug/Kg	1	08/05/20	PS SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	130	ug/Kg	1	08/05/20	PS SW8270D
Isophorone	ND	200	110	ug/Kg	1	08/05/20	PS SW8270D
Naphthalene	820	280	110	ug/Kg	1	08/05/20	PS SW8270D
Nitrobenzene	ND	200	140	ug/Kg	1	08/05/20	PS SW8270D
N-Nitrosodimethylamine	ND	79	79	ug/Kg	1	08/05/20	PS SW8270D
N-Nitrosodi-n-propylamine	ND	79	79	ug/Kg	1	08/05/20	PS SW8270D
N-Nitrosodiphenylamine	ND	280	150	ug/Kg	1	08/05/20	PS SW8270D
Pentachloronitrobenzene	ND	280	150	ug/Kg	1	08/05/20	PS SW8270D
Pentachlorophenol	ND	240	150	ug/Kg	1	08/05/20	PS SW8270D
Phenanthrene	390	280	110	ug/Kg	1	08/05/20	PS SW8270D
Phenol	ND	280	130	ug/Kg	1	08/05/20	PS SW8270D
Pyrene	330	280	140	ug/Kg	1	08/05/20	PS SW8270D
Pyridine	ND	220	97	ug/Kg	1	08/05/20	PS SW8270D

QA/QC Surrogates

% 2,4,6-Tribromophenol	78			%	1	08/05/20	PS 30 - 130 %
% 2-Fluorobiphenyl	72			%	1	08/05/20	PS 30 - 130 %
% 2-Fluorophenol	46			%	1	08/05/20	PS 30 - 130 %
% Nitrobenzene-d5	64			%	1	08/05/20	PS 30 - 130 %
% Phenol-d5	59			%	1	08/05/20	PS 30 - 130 %
% Terphenyl-d14	73			%	1	08/05/20	PS 30 - 130 %

Additional Semi-Volatile Compounds

1,1-Biphenyl	ND	280	120	ug/Kg	1	08/05/20	AW SW8270D
1,2,4,5-Tetrachlorobenzene	ND	280	140	ug/Kg	1	08/05/20	AW SW8270D
Atrazine	ND	130	79	ug/Kg	1	08/05/20	AW SW8270D
Benzaldehyde	ND	280	120	ug/Kg	1	08/05/20	AW SW8270D
Benzo(a)pyrene	ND	280	130	ug/Kg	1	08/05/20	AW SW8270D
Caprolactam	ND	160	160	ug/Kg	1	08/05/20	AW SW8270D

QA/QC Surrogates

% 2,4,6-Tribromophenol	78			%	1	08/05/20	AW 30 - 130 %
% 2-Fluorobiphenyl	72			%	1	08/05/20	AW 30 - 130 %
% 2-Fluorophenol	46			%	1	08/05/20	AW 30 - 130 %
% Nitrobenzene-d5	64			%	1	08/05/20	AW 30 - 130 %
% Phenol-d5	59			%	1	08/05/20	AW 30 - 130 %
% Terphenyl-d14	73			%	1	08/05/20	AW 30 - 130 %

Pyridine	ND	220		ug/Kg	1	08/05/20	AW SW8270D
Field Extraction	Completed					08/03/20	SW5035A

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Semi-Volatile Comment:

Due to low QC recoveries the RL/PQL of some compounds have been evaluated below the lowest calibration standard in order account for possible sample bias and meet criteria: 2,4-dinitrophenol, 4,6-Dinitro-2-methylphenol, and Benzidine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Semi-Volatile Comment:

To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

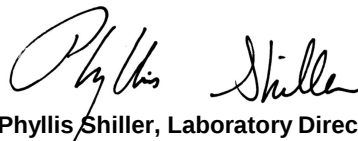
Hexavalent Chromium:

This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 07, 2020

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

August 07, 2020

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information

Matrix: SOIL
Location Code: EBC
Rush Request: 72 Hour
P.O.#:

Custody Information

Collected by: DM
Received by: CP
Analyzed by: see "By" below

Date

08/03/20
08/04/20

Time

8:50
15:52

Laboratory Data

SDG ID: GCG47111
Phoenix ID: CG47114

Project ID: 8 WESTCHESTER AVE, NEW ROCHELLE NY
Client ID: 8WB4 FILL

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38		mg/Kg	1	08/05/20	CPP	SW6010D
Aluminum	17900	38		mg/Kg	10	08/05/20	CPP	SW6010D
Arsenic	3.62	0.76		mg/Kg	1	08/05/20	CPP	SW6010D
Barium	124	0.8		mg/Kg	1	08/05/20	CPP	SW6010D
Beryllium	0.58	0.31		mg/Kg	1	08/05/20	CPP	SW6010D
Calcium	3130	3.8		mg/Kg	1	08/05/20	CPP	SW6010D
Cadmium	1.07	0.38		mg/Kg	1	08/05/20	CPP	SW6010D
Cobalt	11.2	0.38		mg/Kg	1	08/05/20	CPP	SW6010D
Chromium	34.5	0.38		mg/Kg	1	08/05/20	CPP	SW6010D
Copper	34.0	0.8		mg/kg	1	08/05/20	CPP	SW6010D
Iron	26500	38		mg/Kg	10	08/05/20	CPP	SW6010D
Mercury	0.16	0.03		mg/Kg	2	08/05/20	RS	SW7471B
Potassium	2870	8		mg/Kg	1	08/05/20	CPP	SW6010D
Magnesium	4780	3.8		mg/Kg	1	08/05/20	CPP	SW6010D
Manganese	496	3.8		mg/Kg	10	08/05/20	CPP	SW6010D
Molybdenum	0.58	0.38		mg/Kg	1	08/05/20	CPP	SW6010D
Sodium	256	8		mg/Kg	1	08/05/20	CPP	SW6010D
Nickel	26.3	0.38		mg/Kg	1	08/05/20	CPP	SW6010D
Lead	175	0.8		mg/Kg	1	08/05/20	CPP	SW6010D
Antimony	< 3.8	3.8		mg/Kg	1	08/05/20	CPP	SW6010D
Selenium	< 1.5	1.5		mg/Kg	1	08/05/20	CPP	SW6010D
Thallium	< 1.5	1.5		mg/Kg	1	08/05/20	CPP	SW6010D
Vanadium	41.0	0.38		mg/Kg	1	08/05/20	CPP	SW6010D
Zinc	107	0.8		mg/Kg	1	08/05/20	CPP	SW6010D
Percent Solid	84			%		08/04/20	HB	SW846-%Solid
Chromium, Hex. (SW3060 digestion)	< 0.47	0.47		mg/Kg	1	08/06/20	ARG	SW7196A
pH at 25C - Soil	7.80	1.00		pH Units	1	08/04/20 22:26	MB	SW846 9045
Redox Potential	175			mV	1	08/04/20	MB	SM2580B-09

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
Total Cyanide (SW9010C Distill.)	< 0.60	0.60		mg/Kg	1	08/06/20	EG SW9012B
Soil Extraction for PCB	Completed					08/04/20	L/E SW3545A
Soil Extraction for Pesticides	Completed					08/04/20	L/E SW3545A
Mercury Digestion	Completed					08/05/20	VT/VT SW7471B
Soil Extraction for SVOA	Completed					08/04/20	R/M SW3546
Total Metals Digest	Completed					08/04/20	F/AG/BF SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	77	77	ug/Kg	2	08/05/20	SC SW8082A
PCB-1221	ND	77	77	ug/Kg	2	08/05/20	SC SW8082A
PCB-1232	ND	77	77	ug/Kg	2	08/05/20	SC SW8082A
PCB-1242	ND	77	77	ug/Kg	2	08/05/20	SC SW8082A
PCB-1248	ND	77	77	ug/Kg	2	08/05/20	SC SW8082A
PCB-1254	ND	77	77	ug/Kg	2	08/05/20	SC SW8082A
PCB-1260	ND	77	77	ug/Kg	2	08/05/20	SC SW8082A
PCB-1262	ND	77	77	ug/Kg	2	08/05/20	SC SW8082A
PCB-1268	ND	77	77	ug/Kg	2	08/05/20	SC SW8082A

QA/QC Surrogates

% DCBP	73			%	2	08/05/20	SC 30 - 150 %
% DCBP (Confirmation)	67			%	2	08/05/20	SC 30 - 150 %
% TCMX	68			%	2	08/05/20	SC 30 - 150 %
% TCMX (Confirmation)	64			%	2	08/05/20	SC 30 - 150 %

Pesticides - Soil

4,4' -DDD	ND	2.3		ug/Kg	2	08/05/20	CG SW8081B
4,4' -DDE	ND	2.3		ug/Kg	2	08/05/20	CG SW8081B
4,4' -DDT	ND	2.3		ug/Kg	2	08/05/20	CG SW8081B
a-BHC	ND	7.7		ug/Kg	2	08/05/20	CG SW8081B
a-Chlordane	ND	3.9		ug/Kg	2	08/05/20	CG SW8081B
Aldrin	ND	3.9		ug/Kg	2	08/05/20	CG SW8081B
b-BHC	ND	7.7		ug/Kg	2	08/05/20	CG SW8081B
Chlordane	ND	39		ug/Kg	2	08/05/20	CG SW8081B
d-BHC	ND	7.7		ug/Kg	2	08/05/20	CG SW8081B
Dieldrin	ND	3.9		ug/Kg	2	08/05/20	CG SW8081B
Endosulfan I	ND	7.7		ug/Kg	2	08/05/20	CG SW8081B
Endosulfan II	ND	7.7		ug/Kg	2	08/05/20	CG SW8081B
Endosulfan sulfate	ND	7.7		ug/Kg	2	08/05/20	CG SW8081B
Endrin	ND	7.7		ug/Kg	2	08/05/20	CG SW8081B
Endrin aldehyde	ND	7.7		ug/Kg	2	08/05/20	CG SW8081B
Endrin ketone	ND	7.7		ug/Kg	2	08/05/20	CG SW8081B
g-BHC	ND	1.5		ug/Kg	2	08/05/20	CG SW8081B
g-Chlordane	ND	3.9		ug/Kg	2	08/05/20	CG SW8081B
Heptachlor	ND	7.7		ug/Kg	2	08/05/20	CG SW8081B
Heptachlor epoxide	ND	7.7		ug/Kg	2	08/05/20	CG SW8081B
Methoxychlor	ND	39		ug/Kg	2	08/05/20	CG SW8081B
Toxaphene	ND	150		ug/Kg	2	08/05/20	CG SW8081B

QA/QC Surrogates

% DCBP	57			%	2	08/05/20	CG 30 - 150 %
% DCBP (Confirmation)	64			%	2	08/05/20	CG 30 - 150 %
% TCMX	68			%	2	08/05/20	CG 30 - 150 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	
% TCMX (Confirmation)	58			%	2	08/05/20	CG	30 - 150 %
Volatiles								
1,1,1,2-Tetrachloroethane	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
1,1-Dichloroethane	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
1,1-Dichloroethene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
1,1-Dichloropropene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dibromoethane	ND	1.2	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dichloroethane	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dichloropropane	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
1,3-Dichloropropane	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
2,2-Dichloropropane	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
2-Chlorotoluene	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
2-Hexanone	ND	18	3.6	ug/Kg	1	08/05/20	JLI	SW8260C
2-Isopropyltoluene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
4-Chlorotoluene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	18	3.6	ug/Kg	1	08/05/20	JLI	SW8260C
Acetone	ND	18	3.6	ug/Kg	1	08/05/20	JLI	SW8260C
Acrylonitrile	ND	7.1	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
Benzene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
Bromobenzene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
Bromochloromethane	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
Bromodichloromethane	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
Bromoform	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
Bromomethane	ND	3.6	1.4	ug/Kg	1	08/05/20	JLI	SW8260C
Carbon Disulfide	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
Carbon tetrachloride	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
Chlorobenzene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
Chloroethane	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
Chloroform	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
Chloromethane	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
Dibromochloromethane	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
Dibromomethane	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI	SW8260C
Dichlorodifluoromethane	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
Ethylbenzene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C
Hexachlorobutadiene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
Isopropylbenzene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI SW8260C
m&p-Xylene	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI SW8260C
Methyl Ethyl Ketone	ND	21	3.6	ug/Kg	1	08/05/20	JLI SW8260C
Methyl t-butyl ether (MTBE)	ND	7.1	0.71	ug/Kg	1	08/05/20	JLI SW8260C
Methylene chloride	ND	3.6	3.6	ug/Kg	1	08/05/20	JLI SW8260C
Naphthalene	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI SW8260C
n-Butylbenzene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI SW8260C
n-Propylbenzene	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI SW8260C
o-Xylene	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI SW8260C
p-Isopropyltoluene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI SW8260C
sec-Butylbenzene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI SW8260C
Styrene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI SW8260C
tert-Butylbenzene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI SW8260C
Tetrachloroethene	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI SW8260C
Tetrahydrofuran (THF)	ND	7.1	1.8	ug/Kg	1	08/05/20	JLI SW8260C
Toluene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI SW8260C
trans-1,2-Dichloroethene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI SW8260C
trans-1,3-Dichloropropene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI SW8260C
trans-1,4-dichloro-2-butene	ND	7.1	1.8	ug/Kg	1	08/05/20	JLI SW8260C
Trichloroethene	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI SW8260C
Trichlorofluoromethane	ND	3.6	0.71	ug/Kg	1	08/05/20	JLI SW8260C
Trichlorotrifluoroethane	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI SW8260C
Vinyl chloride	ND	3.6	0.36	ug/Kg	1	08/05/20	JLI SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101			%	1	08/05/20	JLI 70 - 130 %
% Bromofluorobenzene	98			%	1	08/05/20	JLI 70 - 130 %
% Dibromofluoromethane	94			%	1	08/05/20	JLI 70 - 130 %
% Toluene-d8	98			%	1	08/05/20	JLI 70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	54		ug/kg	1	08/05/20	JLI SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101			%	1	08/05/20	JLI 70 - 130 %
% Bromofluorobenzene	98			%	1	08/05/20	JLI 70 - 130 %
% Dibromofluoromethane	94			%	1	08/05/20	JLI 70 - 130 %
% Toluene-d8	98			%	1	08/05/20	JLI 70 - 130 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	14		ug/Kg	1	08/05/20	JLI SW8260C
Acrolein	ND	1.4		ug/Kg	1	08/05/20	JLI SW8260C
Acrylonitrile	ND	14		ug/Kg	1	08/05/20	JLI SW8260C
Tert-butyl alcohol	ND	71		ug/Kg	1	08/05/20	JLI SW8260C
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	270	140	ug/Kg	1	08/05/20	AW SW8270D
1,2,4-Trichlorobenzene	ND	270	120	ug/Kg	1	08/05/20	AW SW8270D
1,2-Dichlorobenzene	ND	270	110	ug/Kg	1	08/05/20	AW SW8270D
1,2-Diphenylhydrazine	ND	270	130	ug/Kg	1	08/05/20	AW SW8270D
1,3-Dichlorobenzene	ND	270	120	ug/Kg	1	08/05/20	AW SW8270D
1,4-Dichlorobenzene	ND	270	120	ug/Kg	1	08/05/20	AW SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
2,4,5-Trichlorophenol	ND	270	210	ug/Kg	1	08/05/20	AW SW8270D
2,4,6-Trichlorophenol	ND	190	120	ug/Kg	1	08/05/20	AW SW8270D
2,4-Dichlorophenol	ND	190	140	ug/Kg	1	08/05/20	AW SW8270D
2,4-Dimethylphenol	ND	270	97	ug/Kg	1	08/05/20	AW SW8270D
2,4-Dinitrophenol	ND	270	270	ug/Kg	1	08/05/20	AW SW8270D
2,4-Dinitrotoluene	ND	190	150	ug/Kg	1	08/05/20	AW SW8270D
2,6-Dinitrotoluene	ND	190	120	ug/Kg	1	08/05/20	AW SW8270D
2-Chloronaphthalene	ND	270	110	ug/Kg	1	08/05/20	AW SW8270D
2-Chlorophenol	ND	270	110	ug/Kg	1	08/05/20	AW SW8270D
2-Methylnaphthalene	ND	270	120	ug/Kg	1	08/05/20	AW SW8270D
2-Methylphenol (o-cresol)	ND	270	180	ug/Kg	1	08/05/20	AW SW8270D
2-Nitroaniline	ND	100	100	ug/Kg	1	08/05/20	AW SW8270D
2-Nitrophenol	ND	270	250	ug/Kg	1	08/05/20	AW SW8270D
3&4-Methylphenol (m&p-cresol)	ND	270	150	ug/Kg	1	08/05/20	AW SW8270D
3,3'-Dichlorobenzidine	ND	190	180	ug/Kg	1	08/05/20	AW SW8270D
3-Nitroaniline	ND	91	91	ug/Kg	1	08/05/20	AW SW8270D
4,6-Dinitro-2-methylphenol	ND	230	78	ug/Kg	1	08/05/20	AW SW8270D
4-Bromophenyl phenyl ether	ND	270	110	ug/Kg	1	08/05/20	AW SW8270D
4-Chloro-3-methylphenol	ND	270	140	ug/Kg	1	08/05/20	AW SW8270D
4-Chloroaniline	ND	310	180	ug/Kg	1	08/05/20	AW SW8270D
4-Chlorophenyl phenyl ether	ND	270	130	ug/Kg	1	08/05/20	AW SW8270D
4-Nitroaniline	ND	86	86	ug/Kg	1	08/05/20	AW SW8270D
4-Nitrophenol	ND	390	180	ug/Kg	1	08/05/20	AW SW8270D
Acenaphthene	ND	270	120	ug/Kg	1	08/05/20	AW SW8270D
Acenaphthylene	ND	270	110	ug/Kg	1	08/05/20	AW SW8270D
Acetophenone	ND	270	120	ug/Kg	1	08/05/20	AW SW8270D
Aniline	ND	310	310	ug/Kg	1	08/05/20	AW SW8270D
Anthracene	ND	270	130	ug/Kg	1	08/05/20	AW SW8270D
Benz(a)anthracene	510	270	130	ug/Kg	1	08/05/20	AW SW8270D
Benzidine	ND	340	230	ug/Kg	1	08/05/20	AW SW8270D
Benzo(a)pyrene	480	190	130	ug/Kg	1	08/05/20	AW SW8270D
Benzo(b)fluoranthene	430	270	130	ug/Kg	1	08/05/20	AW SW8270D
Benzo(ghi)perylene	220	J 270	130	ug/Kg	1	08/05/20	AW SW8270D
Benzo(k)fluoranthene	430	270	130	ug/Kg	1	08/05/20	AW SW8270D
Benzoic acid	ND	1900	780	ug/Kg	1	08/05/20	AW SW8270D
Benzyl butyl phthalate	ND	270	100	ug/Kg	1	08/05/20	AW SW8270D
Bis(2-chloroethoxy)methane	ND	270	110	ug/Kg	1	08/05/20	AW SW8270D
Bis(2-chloroethyl)ether	ND	78	78	ug/Kg	1	08/05/20	AW SW8270D
Bis(2-chloroisopropyl)ether	ND	270	110	ug/Kg	1	08/05/20	AW SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	110	ug/Kg	1	08/05/20	AW SW8270D
Carbazole	ND	190	160	ug/Kg	1	08/05/20	AW SW8270D
Chrysene	490	270	130	ug/Kg	1	08/05/20	AW SW8270D
Dibenz(a,h)anthracene	ND	190	130	ug/Kg	1	08/05/20	AW SW8270D
Dibenzofuran	ND	270	110	ug/Kg	1	08/05/20	AW SW8270D
Diethyl phthalate	ND	270	120	ug/Kg	1	08/05/20	AW SW8270D
Dimethylphthalate	ND	270	120	ug/Kg	1	08/05/20	AW SW8270D
Di-n-butylphthalate	ND	270	100	ug/Kg	1	08/05/20	AW SW8270D
Di-n-octylphthalate	ND	270	100	ug/Kg	1	08/05/20	AW SW8270D
Fluoranthene	1000	270	130	ug/Kg	1	08/05/20	AW SW8270D

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
Fluorene	ND	270	130	ug/Kg	1	08/05/20	AW SW8270D
Hexachlorobenzene	ND	190	110	ug/Kg	1	08/05/20	AW SW8270D
Hexachlorobutadiene	ND	270	140	ug/Kg	1	08/05/20	AW SW8270D
Hexachlorocyclopentadiene	ND	270	120	ug/Kg	1	08/05/20	AW SW8270D
Hexachloroethane	ND	190	120	ug/Kg	1	08/05/20	AW SW8270D
Indeno(1,2,3-cd)pyrene	250	J 270	130	ug/Kg	1	08/05/20	AW SW8270D
Isophorone	ND	190	110	ug/Kg	1	08/05/20	AW SW8270D
Naphthalene	ND	270	110	ug/Kg	1	08/05/20	AW SW8270D
Nitrobenzene	ND	190	140	ug/Kg	1	08/05/20	AW SW8270D
N-Nitrosodimethylamine	ND	78	78	ug/Kg	1	08/05/20	AW SW8270D
N-Nitrosodi-n-propylamine	ND	78	78	ug/Kg	1	08/05/20	AW SW8270D
N-Nitrosodiphenylamine	ND	270	150	ug/Kg	1	08/05/20	AW SW8270D
Pentachloronitrobenzene	ND	270	140	ug/Kg	1	08/05/20	AW SW8270D
Pentachlorophenol	ND	230	150	ug/Kg	1	08/05/20	AW SW8270D
Phenanthrene	580	270	110	ug/Kg	1	08/05/20	AW SW8270D
Phenol	ND	270	120	ug/Kg	1	08/05/20	AW SW8270D
Pyrene	840	270	130	ug/Kg	1	08/05/20	AW SW8270D
Pyridine	ND	220	96	ug/Kg	1	08/05/20	AW SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	109			%	1	08/05/20	AW 30 - 130 %
% 2-Fluorobiphenyl	71			%	1	08/05/20	AW 30 - 130 %
% 2-Fluorophenol	53			%	1	08/05/20	AW 30 - 130 %
% Nitrobenzene-d5	64			%	1	08/05/20	AW 30 - 130 %
% Phenol-d5	60			%	1	08/05/20	AW 30 - 130 %
% Terphenyl-d14	77			%	1	08/05/20	AW 30 - 130 %
<u>Additional Semi-Volatile Compounds</u>							
1,1-Biphenyl	ND	270	120	ug/Kg	1	08/05/20	AW SW8270D
1,2,4,5-Tetrachlorobenzene	ND	270	140	ug/Kg	1	08/05/20	AW SW8270D
Atrazine	ND	130	78	ug/Kg	1	08/05/20	AW SW8270D
Benzaldehyde	ND	270	120	ug/Kg	1	08/05/20	AW SW8270D
Benzo(a)pyrene	480	270	130	ug/Kg	1	08/05/20	AW SW8270D
Caprolactam	ND	160	160	ug/Kg	1	08/05/20	AW SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	109			%	1	08/05/20	AW 30 - 130 %
% 2-Fluorobiphenyl	71			%	1	08/05/20	AW 30 - 130 %
% 2-Fluorophenol	53			%	1	08/05/20	AW 30 - 130 %
% Nitrobenzene-d5	64			%	1	08/05/20	AW 30 - 130 %
% Phenol-d5	60			%	1	08/05/20	AW 30 - 130 %
% Terphenyl-d14	77			%	1	08/05/20	AW 30 - 130 %
Pyridine	ND	220		ug/Kg	1	08/05/20	AW SW8270D
Field Extraction	Completed					08/03/20	SW5035A

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Semi-Volatile Comment:

Due to low QC recoveries the RL/PQL of some compounds have been evaluated below the lowest calibration standard in order account for possible sample bias and meet criteria: 2,4-dinitrophenol, 4,6-Dinitro-2-methylphenol, and Benzidine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Semi-Volatile Comment:

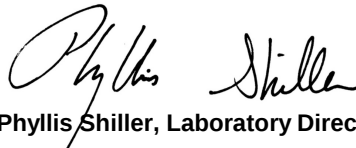
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Hexavalent Chromium:

This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 07, 2020

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

August 07, 2020

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information

Matrix: SOIL
Location Code: EBC
Rush Request: 72 Hour
P.O.#:

Custody Information

Collected by: DM
Received by: CP
Analyzed by: see "By" below

Date

08/03/20
08/04/20

Time

9:06
15:52

Laboratory Data

SDG ID: GCG47111
Phoenix ID: CG47115

Project ID: 8 WESTCHESTER AVE, NEW ROCHELLE NY
Client ID: 8WB5 FILL

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36		mg/Kg	1	08/05/20	CPP	SW6010D
Aluminum	10400	36		mg/Kg	10	08/05/20	CPP	SW6010D
Arsenic	5.23	0.73		mg/Kg	1	08/05/20	CPP	SW6010D
Barium	85.8	0.7		mg/Kg	1	08/05/20	CPP	SW6010D
Beryllium	0.45	0.29		mg/Kg	1	08/05/20	CPP	SW6010D
Calcium	23200	36		mg/Kg	10	08/05/20	CPP	SW6010D
Cadmium	0.90	0.36		mg/Kg	1	08/05/20	CPP	SW6010D
Cobalt	7.12	0.36		mg/Kg	1	08/05/20	CPP	SW6010D
Chromium	16.2	0.36		mg/Kg	1	08/05/20	CPP	SW6010D
Copper	24.5	0.7		mg/kg	1	08/05/20	CPP	SW6010D
Iron	16700	36		mg/Kg	10	08/05/20	CPP	SW6010D
Mercury	0.18	0.07		mg/Kg	5	08/05/20	RS	SW7471B
Potassium	1970	7		mg/Kg	1	08/05/20	CPP	SW6010D
Magnesium	2720	3.6		mg/Kg	1	08/05/20	CPP	SW6010D
Manganese	389	3.6		mg/Kg	10	08/05/20	CPP	SW6010D
Molybdenum	0.37	0.36		mg/Kg	1	08/05/20	CPP	SW6010D
Sodium	257	7		mg/Kg	1	08/05/20	CPP	SW6010D
Nickel	15.6	0.36		mg/Kg	1	08/05/20	CPP	SW6010D
Lead	150	0.7		mg/Kg	1	08/05/20	CPP	SW6010D
Antimony	< 3.6	3.6		mg/Kg	1	08/05/20	CPP	SW6010D
Selenium	< 1.5	1.5		mg/Kg	1	08/05/20	CPP	SW6010D
Thallium	< 1.5	1.5		mg/Kg	1	08/05/20	CPP	SW6010D
Vanadium	22.2	0.36		mg/Kg	1	08/05/20	CPP	SW6010D
Zinc	85.4	0.7		mg/Kg	1	08/05/20	CPP	SW6010D
Percent Solid	88			%		08/04/20	HB	SW846-%Solid
Chromium, Hex. (SW3060 digestion)	< 0.45	0.45		mg/Kg	1	08/06/20	ARG	SW7196A
pH at 25C - Soil	9.72	1.00		pH Units	1	08/04/20 22:27	MB	SW846 9045
Redox Potential	176			mV	1	08/04/20	MB	SM2580B-09

Client ID: 8WB5 FILL

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
Total Cyanide (SW9010C Distill.)	< 0.57	0.57		mg/Kg	1	08/06/20	EG SW9012B
Soil Extraction for PCB	Completed					08/04/20	L/E SW3545A
Soil Extraction for Pesticides	Completed					08/04/20	L/E SW3545A
Mercury Digestion	Completed					08/05/20	VT/VT SW7471B
Soil Extraction for SVOA	Completed					08/04/20	R/M SW3546
Total Metals Digest	Completed					08/04/20	F/AG/BF SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	75	75	ug/Kg	2	08/06/20	SC SW8082A
PCB-1221	ND	75	75	ug/Kg	2	08/06/20	SC SW8082A
PCB-1232	ND	75	75	ug/Kg	2	08/06/20	SC SW8082A
PCB-1242	ND	75	75	ug/Kg	2	08/06/20	SC SW8082A
PCB-1248	ND	75	75	ug/Kg	2	08/06/20	SC SW8082A
PCB-1254	ND	75	75	ug/Kg	2	08/06/20	SC SW8082A
PCB-1260	ND	75	75	ug/Kg	2	08/06/20	SC SW8082A
PCB-1262	ND	75	75	ug/Kg	2	08/06/20	SC SW8082A
PCB-1268	ND	75	75	ug/Kg	2	08/06/20	SC SW8082A

QA/QC Surrogates

% DCBP	65			%	2	08/06/20	SC 30 - 150 %
% DCBP (Confirmation)	70			%	2	08/06/20	SC 30 - 150 %
% TCMX	66			%	2	08/06/20	SC 30 - 150 %
% TCMX (Confirmation)	66			%	2	08/06/20	SC 30 - 150 %

Pesticides - Soil

4,4' -DDD	ND	2.3		ug/Kg	2	08/06/20	CG SW8081B
4,4' -DDE	ND	2.3		ug/Kg	2	08/06/20	CG SW8081B
4,4' -DDT	ND	2.3		ug/Kg	2	08/06/20	CG SW8081B
a-BHC	ND	7.5		ug/Kg	2	08/06/20	CG SW8081B
a-Chlordane	ND	3.8		ug/Kg	2	08/06/20	CG SW8081B
Aldrin	ND	3.8		ug/Kg	2	08/06/20	CG SW8081B
b-BHC	ND	7.5		ug/Kg	2	08/06/20	CG SW8081B
Chlordane	ND	38		ug/Kg	2	08/06/20	CG SW8081B
d-BHC	ND	7.5		ug/Kg	2	08/06/20	CG SW8081B
Dieldrin	ND	3.8		ug/Kg	2	08/06/20	CG SW8081B
Endosulfan I	ND	7.5		ug/Kg	2	08/06/20	CG SW8081B
Endosulfan II	ND	7.5		ug/Kg	2	08/06/20	CG SW8081B
Endosulfan sulfate	ND	7.5		ug/Kg	2	08/06/20	CG SW8081B
Endrin	ND	7.5		ug/Kg	2	08/06/20	CG SW8081B
Endrin aldehyde	ND	7.5		ug/Kg	2	08/06/20	CG SW8081B
Endrin ketone	ND	7.5		ug/Kg	2	08/06/20	CG SW8081B
g-BHC	ND	1.5		ug/Kg	2	08/06/20	CG SW8081B
g-Chlordane	ND	3.8		ug/Kg	2	08/06/20	CG SW8081B
Heptachlor	ND	7.5		ug/Kg	2	08/06/20	CG SW8081B
Heptachlor epoxide	ND	7.5		ug/Kg	2	08/06/20	CG SW8081B
Methoxychlor	ND	38		ug/Kg	2	08/06/20	CG SW8081B
Toxaphene	ND	150		ug/Kg	2	08/06/20	CG SW8081B

QA/QC Surrogates

% DCBP	42			%	2	08/06/20	CG 30 - 150 %
% DCBP (Confirmation)	50			%	2	08/06/20	CG 30 - 150 %
% TCMX	37			%	2	08/06/20	CG 30 - 150 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	
% TCMX (Confirmation)	38			%	2	08/06/20	CG	30 - 150 %
Volatiles								
1,1,1,2-Tetrachloroethane	ND	3.2	0.64	ug/Kg	1	08/05/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.2	0.64	ug/Kg	1	08/05/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	3.2	0.64	ug/Kg	1	08/05/20	JLI	SW8260C
1,1-Dichloroethane	ND	3.2	0.64	ug/Kg	1	08/05/20	JLI	SW8260C
1,1-Dichloroethene	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI	SW8260C
1,1-Dichloropropene	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	3.2	0.64	ug/Kg	1	08/05/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	3.2	0.64	ug/Kg	1	08/05/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	3.2	0.64	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dibromoethane	ND	1.2	0.32	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dichloroethane	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dichloropropane	ND	3.2	0.64	ug/Kg	1	08/05/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI	SW8260C
1,3-Dichloropropane	ND	3.2	0.64	ug/Kg	1	08/05/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI	SW8260C
2,2-Dichloropropane	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI	SW8260C
2-Chlorotoluene	ND	3.2	0.64	ug/Kg	1	08/05/20	JLI	SW8260C
2-Hexanone	ND	16	3.2	ug/Kg	1	08/05/20	JLI	SW8260C
2-Isopropyltoluene	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI	SW8260C
4-Chlorotoluene	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	16	3.2	ug/Kg	1	08/05/20	JLI	SW8260C
Acetone	ND	16	3.2	ug/Kg	1	08/05/20	JLI	SW8260C
Acrylonitrile	ND	6.4	0.64	ug/Kg	1	08/05/20	JLI	SW8260C
Benzene	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI	SW8260C
Bromobenzene	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI	SW8260C
Bromochloromethane	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI	SW8260C
Bromodichloromethane	ND	3.2	0.64	ug/Kg	1	08/05/20	JLI	SW8260C
Bromoform	ND	3.2	0.64	ug/Kg	1	08/05/20	JLI	SW8260C
Bromomethane	ND	3.2	1.3	ug/Kg	1	08/05/20	JLI	SW8260C
Carbon Disulfide	ND	3.2	0.64	ug/Kg	1	08/05/20	JLI	SW8260C
Carbon tetrachloride	ND	3.2	0.64	ug/Kg	1	08/05/20	JLI	SW8260C
Chlorobenzene	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI	SW8260C
Chloroethane	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI	SW8260C
Chloroform	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI	SW8260C
Chloromethane	ND	3.2	0.64	ug/Kg	1	08/05/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI	SW8260C
Dibromochloromethane	ND	3.2	0.64	ug/Kg	1	08/05/20	JLI	SW8260C
Dibromomethane	ND	3.2	0.64	ug/Kg	1	08/05/20	JLI	SW8260C
Dichlorodifluoromethane	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI	SW8260C
Ethylbenzene	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI	SW8260C
Hexachlorobutadiene	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI	SW8260C

Client ID: 8WB5 FILL

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
Isopropylbenzene	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI SW8260C
m&p-Xylene	ND	3.2	0.64	ug/Kg	1	08/05/20	JLI SW8260C
Methyl Ethyl Ketone	ND	19	3.2	ug/Kg	1	08/05/20	JLI SW8260C
Methyl t-butyl ether (MTBE)	ND	6.4	0.64	ug/Kg	1	08/05/20	JLI SW8260C
Methylene chloride	ND	3.2	3.2	ug/Kg	1	08/05/20	JLI SW8260C
Naphthalene	ND	3.2	0.64	ug/Kg	1	08/05/20	JLI SW8260C
n-Butylbenzene	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI SW8260C
n-Propylbenzene	ND	3.2	0.64	ug/Kg	1	08/05/20	JLI SW8260C
o-Xylene	ND	3.2	0.64	ug/Kg	1	08/05/20	JLI SW8260C
p-Isopropyltoluene	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI SW8260C
sec-Butylbenzene	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI SW8260C
Styrene	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI SW8260C
tert-Butylbenzene	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI SW8260C
Tetrachloroethene	ND	3.2	0.64	ug/Kg	1	08/05/20	JLI SW8260C
Tetrahydrofuran (THF)	ND	6.4	1.6	ug/Kg	1	08/05/20	JLI SW8260C
Toluene	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI SW8260C
trans-1,2-Dichloroethene	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI SW8260C
trans-1,3-Dichloropropene	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI SW8260C
trans-1,4-dichloro-2-butene	ND	6.4	1.6	ug/Kg	1	08/05/20	JLI SW8260C
Trichloroethene	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI SW8260C
Trichlorofluoromethane	ND	3.2	0.64	ug/Kg	1	08/05/20	JLI SW8260C
Trichlorotrifluoroethane	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI SW8260C
Vinyl chloride	ND	3.2	0.32	ug/Kg	1	08/05/20	JLI SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	103			%	1	08/05/20	JLI 70 - 130 %
% Bromofluorobenzene	92			%	1	08/05/20	JLI 70 - 130 %
% Dibromofluoromethane	91			%	1	08/05/20	JLI 70 - 130 %
% Toluene-d8	99			%	1	08/05/20	JLI 70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	48		ug/kg	1	08/05/20	JLI SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	103			%	1	08/05/20	JLI 70 - 130 %
% Bromofluorobenzene	92			%	1	08/05/20	JLI 70 - 130 %
% Dibromofluoromethane	91			%	1	08/05/20	JLI 70 - 130 %
% Toluene-d8	99			%	1	08/05/20	JLI 70 - 130 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	13		ug/Kg	1	08/05/20	JLI SW8260C
Acrolein	ND	1.4		ug/Kg	1	08/05/20	JLI SW8260C
Acrylonitrile	ND	13		ug/Kg	1	08/05/20	JLI SW8260C
Tert-butyl alcohol	ND	64		ug/Kg	1	08/05/20	JLI SW8260C
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	260	130	ug/Kg	1	08/05/20	AW SW8270D
1,2,4-Trichlorobenzene	ND	260	110	ug/Kg	1	08/05/20	AW SW8270D
1,2-Dichlorobenzene	ND	260	110	ug/Kg	1	08/05/20	AW SW8270D
1,2-Diphenylhydrazine	ND	260	120	ug/Kg	1	08/05/20	AW SW8270D
1,3-Dichlorobenzene	ND	260	110	ug/Kg	1	08/05/20	AW SW8270D
1,4-Dichlorobenzene	ND	260	110	ug/Kg	1	08/05/20	AW SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
2,4,5-Trichlorophenol	ND	260	210	ug/Kg	1	08/05/20	AW SW8270D
2,4,6-Trichlorophenol	ND	190	120	ug/Kg	1	08/05/20	AW SW8270D
2,4-Dichlorophenol	ND	190	130	ug/Kg	1	08/05/20	AW SW8270D
2,4-Dimethylphenol	ND	260	93	ug/Kg	1	08/05/20	AW SW8270D
2,4-Dinitrophenol	ND	260	260	ug/Kg	1	08/05/20	AW SW8270D
2,4-Dinitrotoluene	ND	190	150	ug/Kg	1	08/05/20	AW SW8270D
2,6-Dinitrotoluene	ND	190	120	ug/Kg	1	08/05/20	AW SW8270D
2-Chloronaphthalene	ND	260	110	ug/Kg	1	08/05/20	AW SW8270D
2-Chlorophenol	ND	260	110	ug/Kg	1	08/05/20	AW SW8270D
2-Methylnaphthalene	ND	260	110	ug/Kg	1	08/05/20	AW SW8270D
2-Methylphenol (o-cresol)	ND	260	180	ug/Kg	1	08/05/20	AW SW8270D
2-Nitroaniline	ND	100	100	ug/Kg	1	08/05/20	AW SW8270D
2-Nitrophenol	ND	260	240	ug/Kg	1	08/05/20	AW SW8270D
3&4-Methylphenol (m&p-cresol)	ND	260	150	ug/Kg	1	08/05/20	AW SW8270D
3,3'-Dichlorobenzidine	ND	190	180	ug/Kg	1	08/05/20	AW SW8270D
3-Nitroaniline	ND	91	91	ug/Kg	1	08/05/20	AW SW8270D
4,6-Dinitro-2-methylphenol	ND	220	75	ug/Kg	1	08/05/20	AW SW8270D
4-Bromophenyl phenyl ether	ND	260	110	ug/Kg	1	08/05/20	AW SW8270D
4-Chloro-3-methylphenol	ND	260	130	ug/Kg	1	08/05/20	AW SW8270D
4-Chloroaniline	ND	300	170	ug/Kg	1	08/05/20	AW SW8270D
4-Chlorophenyl phenyl ether	ND	260	130	ug/Kg	1	08/05/20	AW SW8270D
4-Nitroaniline	ND	86	86	ug/Kg	1	08/05/20	AW SW8270D
4-Nitrophenol	ND	370	170	ug/Kg	1	08/05/20	AW SW8270D
Acenaphthene	ND	260	110	ug/Kg	1	08/05/20	AW SW8270D
Acenaphthylene	ND	260	100	ug/Kg	1	08/05/20	AW SW8270D
Acetophenone	ND	260	120	ug/Kg	1	08/05/20	AW SW8270D
Aniline	ND	300	300	ug/Kg	1	08/05/20	AW SW8270D
Anthracene	ND	260	120	ug/Kg	1	08/05/20	AW SW8270D
Benz(a)anthracene	740	260	130	ug/Kg	1	08/05/20	AW SW8270D
Benzidine	ND	340	220	ug/Kg	1	08/05/20	AW SW8270D
Benzo(a)pyrene	790	190	120	ug/Kg	1	08/05/20	AW SW8270D
Benzo(b)fluoranthene	680	260	130	ug/Kg	1	08/05/20	AW SW8270D
Benzo(ghi)perylene	470	260	120	ug/Kg	1	08/05/20	AW SW8270D
Benzo(k)fluoranthene	680	260	120	ug/Kg	1	08/05/20	AW SW8270D
Benzoic acid	ND	1900	750	ug/Kg	1	08/05/20	AW SW8270D
Benzyl butyl phthalate	ND	260	97	ug/Kg	1	08/05/20	AW SW8270D
Bis(2-chloroethoxy)methane	ND	260	100	ug/Kg	1	08/05/20	AW SW8270D
Bis(2-chloroethyl)ether	ND	75	75	ug/Kg	1	08/05/20	AW SW8270D
Bis(2-chloroisopropyl)ether	ND	260	100	ug/Kg	1	08/05/20	AW SW8270D
Bis(2-ethylhexyl)phthalate	140	J 260	110	ug/Kg	1	08/05/20	AW SW8270D
Carbazole	ND	190	150	ug/Kg	1	08/05/20	AW SW8270D
Chrysene	870	260	130	ug/Kg	1	08/05/20	AW SW8270D
Dibenz(a,h)anthracene	130	J 190	120	ug/Kg	1	08/05/20	AW SW8270D
Dibenzofuran	ND	260	110	ug/Kg	1	08/05/20	AW SW8270D
Diethyl phthalate	ND	260	120	ug/Kg	1	08/05/20	AW SW8270D
Dimethylphthalate	ND	260	120	ug/Kg	1	08/05/20	AW SW8270D
Di-n-butylphthalate	ND	260	100	ug/Kg	1	08/05/20	AW SW8270D
Di-n-octylphthalate	ND	260	97	ug/Kg	1	08/05/20	AW SW8270D
Fluoranthene	1500	260	120	ug/Kg	1	08/05/20	AW SW8270D

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
Fluorene	ND	260	120	ug/Kg	1	08/05/20	AW SW8270D
Hexachlorobenzene	ND	190	110	ug/Kg	1	08/05/20	AW SW8270D
Hexachlorobutadiene	ND	260	140	ug/Kg	1	08/05/20	AW SW8270D
Hexachlorocyclopentadiene	ND	260	110	ug/Kg	1	08/05/20	AW SW8270D
Hexachloroethane	ND	190	110	ug/Kg	1	08/05/20	AW SW8270D
Indeno(1,2,3-cd)pyrene	490	260	120	ug/Kg	1	08/05/20	AW SW8270D
Isophorone	ND	190	100	ug/Kg	1	08/05/20	AW SW8270D
Naphthalene	ND	260	110	ug/Kg	1	08/05/20	AW SW8270D
Nitrobenzene	ND	190	130	ug/Kg	1	08/05/20	AW SW8270D
N-Nitrosodimethylamine	ND	75	75	ug/Kg	1	08/05/20	AW SW8270D
N-Nitrosodi-n-propylamine	ND	75	75	ug/Kg	1	08/05/20	AW SW8270D
N-Nitrosodiphenylamine	ND	260	140	ug/Kg	1	08/05/20	AW SW8270D
Pentachloronitrobenzene	ND	260	140	ug/Kg	1	08/05/20	AW SW8270D
Pentachlorophenol	ND	220	140	ug/Kg	1	08/05/20	AW SW8270D
Phenanthrene	500	260	110	ug/Kg	1	08/05/20	AW SW8270D
Phenol	ND	260	120	ug/Kg	1	08/05/20	AW SW8270D
Pyrene	1300	260	130	ug/Kg	1	08/05/20	AW SW8270D
Pyridine	ND	220	92	ug/Kg	1	08/05/20	AW SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	97			%	1	08/05/20	AW 30 - 130 %
% 2-Fluorobiphenyl	74			%	1	08/05/20	AW 30 - 130 %
% 2-Fluorophenol	47			%	1	08/05/20	AW 30 - 130 %
% Nitrobenzene-d5	62			%	1	08/05/20	AW 30 - 130 %
% Phenol-d5	58			%	1	08/05/20	AW 30 - 130 %
% Terphenyl-d14	73			%	1	08/05/20	AW 30 - 130 %
<u>Additional Semi-Volatile Compounds</u>							
1,1-Biphenyl	ND	260	110	ug/Kg	1	08/05/20	AW SW8270D
1,2,4,5-Tetrachlorobenzene	ND	260	130	ug/Kg	1	08/05/20	AW SW8270D
Atrazine	ND	130	75	ug/Kg	1	08/05/20	AW SW8270D
Benzaldehyde	ND	260	110	ug/Kg	1	08/05/20	AW SW8270D
Benzo(a)pyrene	790	260	120	ug/Kg	1	08/05/20	AW SW8270D
Caprolactam	ND	150	150	ug/Kg	1	08/05/20	AW SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	97			%	1	08/05/20	AW 30 - 130 %
% 2-Fluorobiphenyl	74			%	1	08/05/20	AW 30 - 130 %
% 2-Fluorophenol	47			%	1	08/05/20	AW 30 - 130 %
% Nitrobenzene-d5	62			%	1	08/05/20	AW 30 - 130 %
% Phenol-d5	58			%	1	08/05/20	AW 30 - 130 %
% Terphenyl-d14	73			%	1	08/05/20	AW 30 - 130 %
Pyridine	ND	220		ug/Kg	1	08/05/20	AW SW8270D
Field Extraction	Completed					08/03/20	SW5035A

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Semi-Volatile Comment:

Due to low QC recoveries the RL/PQL of some compounds have been evaluated below the lowest calibration standard in order account for possible sample bias and meet criteria: 2,4-dinitrophenol, 4,6-Dinitro-2-methylphenol, and Benzidine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Semi-Volatile Comment:

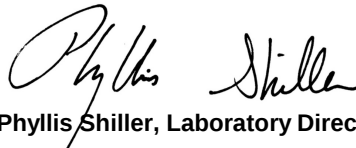
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Hexavalent Chromium:

This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 07, 2020

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

August 07, 2020

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information

Matrix: SOIL
Location Code: EBC
Rush Request: 72 Hour
P.O.#:

Custody Information

Collected by: DM
Received by: CP
Analyzed by: see "By" below

Date

08/03/20
08/04/20

Time

9:22
15:52

Laboratory Data

SDG ID: GCG47111
Phoenix ID: CG47116

Project ID: 8 WESTCHESTER AVE, NEW ROCHELLE NY
Client ID: 8WB6 FILL

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37		mg/Kg	1	08/05/20	CPP	SW6010D
Aluminum	11800	37		mg/Kg	10	08/05/20	CPP	SW6010D
Arsenic	4.87	0.75		mg/Kg	1	08/05/20	CPP	SW6010D
Barium	112	0.7		mg/Kg	1	08/05/20	CPP	SW6010D
Beryllium	0.52	0.30		mg/Kg	1	08/05/20	CPP	SW6010D
Calcium	37300	37		mg/Kg	10	08/05/20	CPP	SW6010D
Cadmium	0.79	0.37		mg/Kg	1	08/05/20	CPP	SW6010D
Cobalt	7.02	0.37		mg/Kg	1	08/05/20	CPP	SW6010D
Chromium	19.3	0.37		mg/Kg	1	08/05/20	CPP	SW6010D
Copper	32.3	0.7		mg/kg	1	08/05/20	CPP	SW6010D
Iron	16900	37		mg/Kg	10	08/05/20	CPP	SW6010D
Mercury	0.84	0.07		mg/Kg	5	08/05/20	RS	SW7471B
Potassium	2240	7		mg/Kg	1	08/05/20	CPP	SW6010D
Magnesium	4570	3.7		mg/Kg	1	08/05/20	CPP	SW6010D
Manganese	296	3.7		mg/Kg	10	08/05/20	CPP	SW6010D
Molybdenum	< 0.37	0.37		mg/Kg	1	08/05/20	CPP	SW6010D
Sodium	403	7		mg/Kg	1	08/05/20	CPP	SW6010D
Nickel	17.9	0.37		mg/Kg	1	08/05/20	CPP	SW6010D
Lead	92.7	0.7		mg/Kg	1	08/05/20	CPP	SW6010D
Antimony	< 3.7	3.7		mg/Kg	1	08/05/20	CPP	SW6010D
Selenium	< 1.5	1.5		mg/Kg	1	08/05/20	CPP	SW6010D
Thallium	< 1.5	1.5		mg/Kg	1	08/05/20	CPP	SW6010D
Vanadium	24.6	0.37		mg/Kg	1	08/05/20	CPP	SW6010D
Zinc	91.2	0.7		mg/Kg	1	08/05/20	CPP	SW6010D
Percent Solid	86			%		08/04/20	HB	SW846-%Solid
Chromium, Hex. (SW3060 digestion)	< 0.47	0.47		mg/Kg	1	08/06/20	ARG	SW7196A
pH at 25C - Soil	11.0	1.00		pH Units	1	08/04/20 22:27	MB	SW846 9045
Redox Potential	91.6			mV	1	08/04/20	MB	SM2580B-09

Client ID: 8WB6 FILL

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
Total Cyanide (SW9010C Distill.)	< 0.58	0.58		mg/Kg	1	08/06/20	EG SW9012B
Soil Extraction for PCB	Completed					08/04/20	L/E SW3545A
Soil Extraction for Pesticides	Completed					08/04/20	L/E SW3545A
Mercury Digestion	Completed					08/05/20	VT/VT SW7471B
Soil Extraction for SVOA	Completed					08/04/20	R/M SW3546
Total Metals Digest	Completed					08/04/20	F/AG/BF SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	76	76	ug/Kg	2	08/05/20	SC SW8082A
PCB-1221	ND	76	76	ug/Kg	2	08/05/20	SC SW8082A
PCB-1232	ND	76	76	ug/Kg	2	08/05/20	SC SW8082A
PCB-1242	ND	76	76	ug/Kg	2	08/05/20	SC SW8082A
PCB-1248	ND	76	76	ug/Kg	2	08/05/20	SC SW8082A
PCB-1254	ND	76	76	ug/Kg	2	08/05/20	SC SW8082A
PCB-1260	ND	76	76	ug/Kg	2	08/05/20	SC SW8082A
PCB-1262	ND	76	76	ug/Kg	2	08/05/20	SC SW8082A
PCB-1268	ND	76	76	ug/Kg	2	08/05/20	SC SW8082A

QA/QC Surrogates

% DCBP	73			%	2	08/05/20	SC 30 - 150 %
% DCBP (Confirmation)	65			%	2	08/05/20	SC 30 - 150 %
% TCMX	64			%	2	08/05/20	SC 30 - 150 %
% TCMX (Confirmation)	65			%	2	08/05/20	SC 30 - 150 %

Pesticides - Soil

4,4' -DDD	ND	2.3		ug/Kg	2	08/05/20	CG SW8081B
4,4' -DDE	ND	2.3		ug/Kg	2	08/05/20	CG SW8081B
4,4' -DDT	ND	2.3		ug/Kg	2	08/05/20	CG SW8081B
a-BHC	ND	7.6		ug/Kg	2	08/05/20	CG SW8081B
a-Chlordane	ND	3.8		ug/Kg	2	08/05/20	CG SW8081B
Aldrin	ND	3.8		ug/Kg	2	08/05/20	CG SW8081B
b-BHC	ND	7.6		ug/Kg	2	08/05/20	CG SW8081B
Chlordane	ND	38		ug/Kg	2	08/05/20	CG SW8081B
d-BHC	ND	7.6		ug/Kg	2	08/05/20	CG SW8081B
Dieldrin	ND	3.8		ug/Kg	2	08/05/20	CG SW8081B
Endosulfan I	ND	7.6		ug/Kg	2	08/05/20	CG SW8081B
Endosulfan II	ND	7.6		ug/Kg	2	08/05/20	CG SW8081B
Endosulfan sulfate	ND	7.6		ug/Kg	2	08/05/20	CG SW8081B
Endrin	ND	7.6		ug/Kg	2	08/05/20	CG SW8081B
Endrin aldehyde	ND	7.6		ug/Kg	2	08/05/20	CG SW8081B
Endrin ketone	ND	7.6		ug/Kg	2	08/05/20	CG SW8081B
g-BHC	ND	1.5		ug/Kg	2	08/05/20	CG SW8081B
g-Chlordane	ND	3.8		ug/Kg	2	08/05/20	CG SW8081B
Heptachlor	ND	7.6		ug/Kg	2	08/05/20	CG SW8081B
Heptachlor epoxide	ND	7.6		ug/Kg	2	08/05/20	CG SW8081B
Methoxychlor	ND	38		ug/Kg	2	08/05/20	CG SW8081B
Toxaphene	ND	150		ug/Kg	2	08/05/20	CG SW8081B

QA/QC Surrogates

% DCBP	62			%	2	08/05/20	CG 30 - 150 %
% DCBP (Confirmation)	74			%	2	08/05/20	CG 30 - 150 %
% TCMX	53			%	2	08/05/20	CG 30 - 150 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	
% TCMX (Confirmation)	56			%	2	08/05/20	CG	30 - 150 %
Volatiles								
1,1,1,2-Tetrachloroethane	ND	4.7	0.94	ug/Kg	1	08/05/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.7	0.94	ug/Kg	1	08/05/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.7	0.94	ug/Kg	1	08/05/20	JLI	SW8260C
1,1-Dichloroethane	ND	4.7	0.94	ug/Kg	1	08/05/20	JLI	SW8260C
1,1-Dichloroethene	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI	SW8260C
1,1-Dichloropropene	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.7	0.94	ug/Kg	1	08/05/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.7	0.94	ug/Kg	1	08/05/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.7	0.94	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dibromoethane	ND	1.2	0.47	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dichloroethane	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dichloropropane	ND	4.7	0.94	ug/Kg	1	08/05/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI	SW8260C
1,3-Dichloropropane	ND	4.7	0.94	ug/Kg	1	08/05/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI	SW8260C
2,2-Dichloropropane	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI	SW8260C
2-Chlorotoluene	ND	4.7	0.94	ug/Kg	1	08/05/20	JLI	SW8260C
2-Hexanone	ND	24	4.7	ug/Kg	1	08/05/20	JLI	SW8260C
2-Isopropyltoluene	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI	SW8260C
4-Chlorotoluene	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	24	4.7	ug/Kg	1	08/05/20	JLI	SW8260C
Acetone	13	JS 24	4.7	ug/Kg	1	08/05/20	JLI	SW8260C
Acrylonitrile	ND	9.4	0.94	ug/Kg	1	08/05/20	JLI	SW8260C
Benzene	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI	SW8260C
Bromobenzene	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI	SW8260C
Bromochloromethane	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI	SW8260C
Bromodichloromethane	ND	4.7	0.94	ug/Kg	1	08/05/20	JLI	SW8260C
Bromoform	ND	4.7	0.94	ug/Kg	1	08/05/20	JLI	SW8260C
Bromomethane	ND	4.7	1.9	ug/Kg	1	08/05/20	JLI	SW8260C
Carbon Disulfide	ND	4.7	0.94	ug/Kg	1	08/05/20	JLI	SW8260C
Carbon tetrachloride	ND	4.7	0.94	ug/Kg	1	08/05/20	JLI	SW8260C
Chlorobenzene	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI	SW8260C
Chloroethane	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI	SW8260C
Chloroform	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI	SW8260C
Chloromethane	ND	4.7	0.94	ug/Kg	1	08/05/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI	SW8260C
Dibromochloromethane	ND	4.7	0.94	ug/Kg	1	08/05/20	JLI	SW8260C
Dibromomethane	ND	4.7	0.94	ug/Kg	1	08/05/20	JLI	SW8260C
Dichlorodifluoromethane	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI	SW8260C
Ethylbenzene	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI	SW8260C
Hexachlorobutadiene	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI	SW8260C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
Isopropylbenzene	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI SW8260C
m&p-Xylene	ND	4.7	0.94	ug/Kg	1	08/05/20	JLI SW8260C
Methyl Ethyl Ketone	ND	28	4.7	ug/Kg	1	08/05/20	JLI SW8260C
Methyl t-butyl ether (MTBE)	ND	9.4	0.94	ug/Kg	1	08/05/20	JLI SW8260C
Methylene chloride	ND	4.7	4.7	ug/Kg	1	08/05/20	JLI SW8260C
Naphthalene	ND	4.7	0.94	ug/Kg	1	08/05/20	JLI SW8260C
n-Butylbenzene	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI SW8260C
n-Propylbenzene	ND	4.7	0.94	ug/Kg	1	08/05/20	JLI SW8260C
o-Xylene	ND	4.7	0.94	ug/Kg	1	08/05/20	JLI SW8260C
p-Isopropyltoluene	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI SW8260C
sec-Butylbenzene	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI SW8260C
Styrene	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI SW8260C
tert-Butylbenzene	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI SW8260C
Tetrachloroethene	ND	4.7	0.94	ug/Kg	1	08/05/20	JLI SW8260C
Tetrahydrofuran (THF)	ND	9.4	2.4	ug/Kg	1	08/05/20	JLI SW8260C
Toluene	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI SW8260C
trans-1,2-Dichloroethene	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI SW8260C
trans-1,3-Dichloropropene	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI SW8260C
trans-1,4-dichloro-2-butene	ND	9.4	2.4	ug/Kg	1	08/05/20	JLI SW8260C
Trichloroethene	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI SW8260C
Trichlorofluoromethane	ND	4.7	0.94	ug/Kg	1	08/05/20	JLI SW8260C
Trichlorotrifluoroethane	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI SW8260C
Vinyl chloride	ND	4.7	0.47	ug/Kg	1	08/05/20	JLI SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	111			%	1	08/05/20	JLI 70 - 130 %
% Bromofluorobenzene	88			%	1	08/05/20	JLI 70 - 130 %
% Dibromofluoromethane	80			%	1	08/05/20	JLI 70 - 130 %
% Toluene-d8	98			%	1	08/05/20	JLI 70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	71		ug/kg	1	08/05/20	JLI SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	111			%	1	08/05/20	JLI 70 - 130 %
% Bromofluorobenzene	88			%	1	08/05/20	JLI 70 - 130 %
% Dibromofluoromethane	80			%	1	08/05/20	JLI 70 - 130 %
% Toluene-d8	98			%	1	08/05/20	JLI 70 - 130 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	19		ug/Kg	1	08/05/20	JLI SW8260C
Acrolein	ND	1.4		ug/Kg	1	08/05/20	JLI SW8260C
Acrylonitrile	ND	19		ug/Kg	1	08/05/20	JLI SW8260C
Tert-butyl alcohol	ND	94		ug/Kg	1	08/05/20	JLI SW8260C
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	270	140	ug/Kg	1	08/05/20	WB SW8270D
1,2,4-Trichlorobenzene	ND	270	120	ug/Kg	1	08/05/20	WB SW8270D
1,2-Dichlorobenzene	ND	270	110	ug/Kg	1	08/05/20	WB SW8270D
1,2-Diphenylhydrazine	ND	270	130	ug/Kg	1	08/05/20	WB SW8270D
1,3-Dichlorobenzene	ND	270	110	ug/Kg	1	08/05/20	WB SW8270D
1,4-Dichlorobenzene	ND	270	110	ug/Kg	1	08/05/20	WB SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
2,4,5-Trichlorophenol	ND	270	210	ug/Kg	1	08/05/20	WB SW8270D
2,4,6-Trichlorophenol	ND	190	120	ug/Kg	1	08/05/20	WB SW8270D
2,4-Dichlorophenol	ND	190	140	ug/Kg	1	08/05/20	WB SW8270D
2,4-Dimethylphenol	ND	270	96	ug/Kg	1	08/05/20	WB SW8270D
2,4-Dinitrophenol	ND	270	270	ug/Kg	1	08/05/20	WB SW8270D
2,4-Dinitrotoluene	ND	190	150	ug/Kg	1	08/05/20	WB SW8270D
2,6-Dinitrotoluene	ND	190	120	ug/Kg	1	08/05/20	WB SW8270D
2-Chloronaphthalene	ND	270	110	ug/Kg	1	08/05/20	WB SW8270D
2-Chlorophenol	ND	270	110	ug/Kg	1	08/05/20	WB SW8270D
2-Methylnaphthalene	ND	270	120	ug/Kg	1	08/05/20	WB SW8270D
2-Methylphenol (o-cresol)	ND	270	180	ug/Kg	1	08/05/20	WB SW8270D
2-Nitroaniline	ND	100	100	ug/Kg	1	08/05/20	WB SW8270D
2-Nitrophenol	ND	270	250	ug/Kg	1	08/05/20	WB SW8270D
3&4-Methylphenol (m&p-cresol)	ND	270	150	ug/Kg	1	08/05/20	WB SW8270D
3,3'-Dichlorobenzidine	ND	190	180	ug/Kg	1	08/05/20	WB SW8270D
3-Nitroaniline	ND	91	91	ug/Kg	1	08/05/20	WB SW8270D
4,6-Dinitro-2-methylphenol	ND	230	77	ug/Kg	1	08/05/20	WB SW8270D
4-Bromophenyl phenyl ether	ND	270	110	ug/Kg	1	08/05/20	WB SW8270D
4-Chloro-3-methylphenol	ND	270	140	ug/Kg	1	08/05/20	WB SW8270D
4-Chloroaniline	ND	310	180	ug/Kg	1	08/05/20	WB SW8270D
4-Chlorophenyl phenyl ether	ND	270	130	ug/Kg	1	08/05/20	WB SW8270D
4-Nitroaniline	ND	86	86	ug/Kg	1	08/05/20	WB SW8270D
4-Nitrophenol	ND	390	180	ug/Kg	1	08/05/20	WB SW8270D
Acenaphthene	ND	270	120	ug/Kg	1	08/05/20	WB SW8270D
Acenaphthylene	ND	270	110	ug/Kg	1	08/05/20	WB SW8270D
Acetophenone	ND	270	120	ug/Kg	1	08/05/20	WB SW8270D
Aniline	ND	310	310	ug/Kg	1	08/05/20	WB SW8270D
Anthracene	ND	270	130	ug/Kg	1	08/05/20	WB SW8270D
Benz(a)anthracene	ND	270	130	ug/Kg	1	08/05/20	WB SW8270D
Benzidine	ND	340	230	ug/Kg	1	08/05/20	WB SW8270D
Benzo(a)pyrene	ND	190	130	ug/Kg	1	08/05/20	WB SW8270D
Benzo(b)fluoranthene	ND	270	130	ug/Kg	1	08/05/20	WB SW8270D
Benzo(ghi)perylene	ND	270	130	ug/Kg	1	08/05/20	WB SW8270D
Benzo(k)fluoranthene	ND	270	130	ug/Kg	1	08/05/20	WB SW8270D
Benzoic acid	ND	1900	770	ug/Kg	1	08/05/20	WB SW8270D
Benzyl butyl phthalate	ND	270	100	ug/Kg	1	08/05/20	WB SW8270D
Bis(2-chloroethoxy)methane	ND	270	110	ug/Kg	1	08/05/20	WB SW8270D
Bis(2-chloroethyl)ether	ND	77	77	ug/Kg	1	08/05/20	WB SW8270D
Bis(2-chloroisopropyl)ether	ND	270	110	ug/Kg	1	08/05/20	WB SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	110	ug/Kg	1	08/05/20	WB SW8270D
Carbazole	ND	190	150	ug/Kg	1	08/05/20	WB SW8270D
Chrysene	130	J 270	130	ug/Kg	1	08/05/20	WB SW8270D
Dibenz(a,h)anthracene	ND	190	130	ug/Kg	1	08/05/20	WB SW8270D
Dibenzofuran	ND	270	110	ug/Kg	1	08/05/20	WB SW8270D
Diethyl phthalate	ND	270	120	ug/Kg	1	08/05/20	WB SW8270D
Dimethylphthalate	ND	270	120	ug/Kg	1	08/05/20	WB SW8270D
Di-n-butylphthalate	ND	270	100	ug/Kg	1	08/05/20	WB SW8270D
Di-n-octylphthalate	ND	270	100	ug/Kg	1	08/05/20	WB SW8270D
Fluoranthene	220	J 270	130	ug/Kg	1	08/05/20	WB SW8270D

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
Fluorene	ND	270	130	ug/Kg	1	08/05/20	WB SW8270D
Hexachlorobenzene	ND	190	110	ug/Kg	1	08/05/20	WB SW8270D
Hexachlorobutadiene	ND	270	140	ug/Kg	1	08/05/20	WB SW8270D
Hexachlorocyclopentadiene	ND	270	120	ug/Kg	1	08/05/20	WB SW8270D
Hexachloroethane	ND	190	120	ug/Kg	1	08/05/20	WB SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	130	ug/Kg	1	08/05/20	WB SW8270D
Isophorone	ND	190	110	ug/Kg	1	08/05/20	WB SW8270D
Naphthalene	ND	270	110	ug/Kg	1	08/05/20	WB SW8270D
Nitrobenzene	ND	190	140	ug/Kg	1	08/05/20	WB SW8270D
N-Nitrosodimethylamine	ND	77	77	ug/Kg	1	08/05/20	WB SW8270D
N-Nitrosodi-n-propylamine	ND	77	77	ug/Kg	1	08/05/20	WB SW8270D
N-Nitrosodiphenylamine	ND	270	150	ug/Kg	1	08/05/20	WB SW8270D
Pentachloronitrobenzene	ND	270	140	ug/Kg	1	08/05/20	WB SW8270D
Pentachlorophenol	ND	230	150	ug/Kg	1	08/05/20	WB SW8270D
Phenanthrene	200	J 270	110	ug/Kg	1	08/05/20	WB SW8270D
Phenol	ND	270	120	ug/Kg	1	08/05/20	WB SW8270D
Pyrene	180	J 270	130	ug/Kg	1	08/05/20	WB SW8270D
Pyridine	ND	220	95	ug/Kg	1	08/05/20	WB SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	87			%	1	08/05/20	WB 30 - 130 %
% 2-Fluorobiphenyl	74			%	1	08/05/20	WB 30 - 130 %
% 2-Fluorophenol	58			%	1	08/05/20	WB 30 - 130 %
% Nitrobenzene-d5	78			%	1	08/05/20	WB 30 - 130 %
% Phenol-d5	70			%	1	08/05/20	WB 30 - 130 %
% Terphenyl-d14	67			%	1	08/05/20	WB 30 - 130 %
<u>Additional Semi-Volatile Compounds</u>							
1,1-Biphenyl	ND	270	120	ug/Kg	1	08/05/20	WB SW8270D
1,2,4,5-Tetrachlorobenzene	ND	270	140	ug/Kg	1	08/05/20	WB SW8270D
Atrazine	ND	130	77	ug/Kg	1	08/05/20	WB SW8270D
Benzaldehyde	ND	270	110	ug/Kg	1	08/05/20	WB SW8270D
Benzo(a)pyrene	ND	270	130	ug/Kg	1	08/05/20	WB SW8270D
Caprolactam	ND	150	150	ug/Kg	1	08/05/20	WB SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	87			%	1	08/05/20	WB 30 - 130 %
% 2-Fluorobiphenyl	74			%	1	08/05/20	WB 30 - 130 %
% 2-Fluorophenol	58			%	1	08/05/20	WB 30 - 130 %
% Nitrobenzene-d5	78			%	1	08/05/20	WB 30 - 130 %
% Phenol-d5	70			%	1	08/05/20	WB 30 - 130 %
% Terphenyl-d14	67			%	1	08/05/20	WB 30 - 130 %
Pyridine	ND	220		ug/Kg	1	08/05/20	WB SW8270D
Field Extraction	Completed					08/03/20	SW5035A

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Semi-Volatile Comment:

Due to low QC recoveries the RL/PQL of some compounds have been evaluated below the lowest calibration standard in order account for possible sample bias and meet criteria: 2,4-dinitrophenol, 4,6-Dinitro-2-methylphenol, and Benzidine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Semi-Volatile Comment:

To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

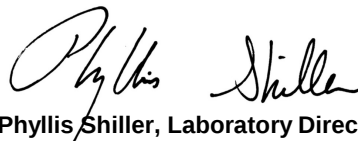
Hexavalent Chromium:

This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 07, 2020

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

August 07, 2020

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information

Matrix: SOIL
Location Code: EBC
Rush Request: 72 Hour
P.O.#:

Custody Information

Collected by: DM
Received by: CP
Analyzed by: see "By" below

Date

08/03/20
08/04/20

Time

15:52

Laboratory Data

SDG ID: GCG47111
Phoenix ID: CG47117

Project ID: 8 WESTCHESTER AVE, NEW ROCHELLE NY
Client ID: TRIP BLANK HIGH

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	250	50	ug/Kg	50	08/05/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	250	25	ug/Kg	50	08/05/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	250	50	ug/Kg	50	08/05/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	250	50	ug/Kg	50	08/05/20	JLI	SW8260C
1,1-Dichloroethane	ND	250	50	ug/Kg	50	08/05/20	JLI	SW8260C
1,1-Dichloroethene	ND	250	25	ug/Kg	50	08/05/20	JLI	SW8260C
1,1-Dichloropropene	ND	250	25	ug/Kg	50	08/05/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	250	50	ug/Kg	50	08/05/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	250	25	ug/Kg	50	08/05/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	250	50	ug/Kg	50	08/05/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	250	25	ug/Kg	50	08/05/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	250	50	ug/Kg	50	08/05/20	JLI	SW8260C
1,2-Dibromoethane	ND	250	25	ug/Kg	50	08/05/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	250	25	ug/Kg	50	08/05/20	JLI	SW8260C
1,2-Dichloroethane	ND	250	25	ug/Kg	50	08/05/20	JLI	SW8260C
1,2-Dichloropropane	ND	250	50	ug/Kg	50	08/05/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	250	25	ug/Kg	50	08/05/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	250	25	ug/Kg	50	08/05/20	JLI	SW8260C
1,3-Dichloropropane	ND	250	50	ug/Kg	50	08/05/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	250	25	ug/Kg	50	08/05/20	JLI	SW8260C
2,2-Dichloropropane	ND	250	25	ug/Kg	50	08/05/20	JLI	SW8260C
2-Chlorotoluene	ND	250	50	ug/Kg	50	08/05/20	JLI	SW8260C
2-Hexanone	ND	1300	250	ug/Kg	50	08/05/20	JLI	SW8260C
2-Isopropyltoluene	ND	250	25	ug/Kg	50	08/05/20	JLI	SW8260C
4-Chlorotoluene	ND	250	25	ug/Kg	50	08/05/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	1300	250	ug/Kg	50	08/05/20	JLI	SW8260C

Client ID: TRIP BLANK HIGH

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
Acetone	ND	1300	250	ug/Kg	50	08/05/20	JLI SW8260C
Acrylonitrile	ND	500	50	ug/Kg	50	08/05/20	JLI SW8260C
Benzene	ND	250	25	ug/Kg	50	08/05/20	JLI SW8260C
Bromobenzene	ND	250	25	ug/Kg	50	08/05/20	JLI SW8260C
Bromochloromethane	ND	250	25	ug/Kg	50	08/05/20	JLI SW8260C
Bromodichloromethane	ND	250	50	ug/Kg	50	08/05/20	JLI SW8260C
Bromoform	ND	250	50	ug/Kg	50	08/05/20	JLI SW8260C
Bromomethane	ND	250	100	ug/Kg	50	08/05/20	JLI SW8260C
Carbon Disulfide	ND	250	50	ug/Kg	50	08/05/20	JLI SW8260C
Carbon tetrachloride	ND	250	50	ug/Kg	50	08/05/20	JLI SW8260C
Chlorobenzene	ND	250	25	ug/Kg	50	08/05/20	JLI SW8260C
Chloroethane	ND	250	25	ug/Kg	50	08/05/20	JLI SW8260C
Chloroform	ND	250	25	ug/Kg	50	08/05/20	JLI SW8260C
Chloromethane	ND	250	50	ug/Kg	50	08/05/20	JLI SW8260C
cis-1,2-Dichloroethene	ND	250	25	ug/Kg	50	08/05/20	JLI SW8260C
cis-1,3-Dichloropropene	ND	250	25	ug/Kg	50	08/05/20	JLI SW8260C
Dibromochloromethane	ND	250	50	ug/Kg	50	08/05/20	JLI SW8260C
Dibromomethane	ND	250	50	ug/Kg	50	08/05/20	JLI SW8260C
Dichlorodifluoromethane	ND	250	25	ug/Kg	50	08/05/20	JLI SW8260C
Ethylbenzene	ND	250	25	ug/Kg	50	08/05/20	JLI SW8260C
Hexachlorobutadiene	ND	250	25	ug/Kg	50	08/05/20	JLI SW8260C
Isopropylbenzene	ND	250	25	ug/Kg	50	08/05/20	JLI SW8260C
m&p-Xylene	ND	250	50	ug/Kg	50	08/05/20	JLI SW8260C
Methyl Ethyl Ketone	ND	1500	250	ug/Kg	50	08/05/20	JLI SW8260C
Methyl t-butyl ether (MTBE)	ND	500	50	ug/Kg	50	08/05/20	JLI SW8260C
Methylene chloride	ND	250	250	ug/Kg	50	08/05/20	JLI SW8260C
Naphthalene	ND	250	50	ug/Kg	50	08/05/20	JLI SW8260C
n-Butylbenzene	ND	250	25	ug/Kg	50	08/05/20	JLI SW8260C
n-Propylbenzene	ND	250	50	ug/Kg	50	08/05/20	JLI SW8260C
o-Xylene	ND	250	50	ug/Kg	50	08/05/20	JLI SW8260C
p-Isopropyltoluene	ND	250	25	ug/Kg	50	08/05/20	JLI SW8260C
sec-Butylbenzene	ND	250	25	ug/Kg	50	08/05/20	JLI SW8260C
Styrene	ND	250	25	ug/Kg	50	08/05/20	JLI SW8260C
tert-Butylbenzene	ND	250	25	ug/Kg	50	08/05/20	JLI SW8260C
Tetrachloroethene	ND	250	50	ug/Kg	50	08/05/20	JLI SW8260C
Tetrahydrofuran (THF)	ND	500	130	ug/Kg	50	08/05/20	JLI SW8260C
Toluene	ND	250	25	ug/Kg	50	08/05/20	JLI SW8260C
trans-1,2-Dichloroethene	ND	250	25	ug/Kg	50	08/05/20	JLI SW8260C
trans-1,3-Dichloropropene	ND	250	25	ug/Kg	50	08/05/20	JLI SW8260C
trans-1,4-dichloro-2-butene	ND	500	130	ug/Kg	50	08/05/20	JLI SW8260C
Trichloroethene	ND	250	25	ug/Kg	50	08/05/20	JLI SW8260C
Trichlorofluoromethane	ND	250	50	ug/Kg	50	08/05/20	JLI SW8260C
Trichlorotrifluoroethane	ND	250	25	ug/Kg	50	08/05/20	JLI SW8260C
Vinyl chloride	ND	250	25	ug/Kg	50	08/05/20	JLI SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (50x)	100			%	50	08/05/20	JLI 70 - 130 %
% Bromofluorobenzene (50x)	96			%	50	08/05/20	JLI 70 - 130 %
% Dibromofluoromethane (50x)	95			%	50	08/05/20	JLI 70 - 130 %
% Toluene-d8 (50x)	99			%	50	08/05/20	JLI 70 - 130 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
<u>1,4-dioxane</u>							
1,4-dioxane	ND	3800		ug/kg	50	08/05/20	JLI SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (50x)	100			%	50	08/05/20	JLI 70 - 130 %
% Bromofluorobenzene (50x)	96			%	50	08/05/20	JLI 70 - 130 %
% Dibromofluoromethane (50x)	95			%	50	08/05/20	JLI 70 - 130 %
% Toluene-d8 (50x)	99			%	50	08/05/20	JLI 70 - 130 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1000		ug/Kg	50	08/05/20	JLI SW8260C
Acrolein	ND	250		ug/Kg	50	08/05/20	JLI SW8260C
Acrylonitrile	ND	1000		ug/Kg	50	08/05/20	JLI SW8260C
Tert-butyl alcohol	ND	5000		ug/Kg	50	08/05/20	JLI SW8260C
Field Extraction	Completed					08/03/20	SW5035A

1

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 07, 2020

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

August 07, 2020

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information

Matrix: SOIL
Location Code: EBC
Rush Request: 72 Hour
P.O.#:

Custody Information

Collected by: DM
Received by: CP
Analyzed by: see "By" below

Date

08/03/20
08/04/20

Time

15:52

Laboratory Data

SDG ID: GCG47111
Phoenix ID: CG47118

Project ID: 8 WESTCHESTER AVE, NEW ROCHELLE NY
Client ID: TRIP BLANK LOW

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	5.0	1.0	ug/Kg	1	08/05/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/Kg	1	08/05/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.0	1.0	ug/Kg	1	08/05/20	JLI	SW8260C
1,1-Dichloroethane	ND	5.0	1.0	ug/Kg	1	08/05/20	JLI	SW8260C
1,1-Dichloroethene	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI	SW8260C
1,1-Dichloropropene	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/Kg	1	08/05/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/Kg	1	08/05/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	1.0	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dibromoethane	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dichloroethane	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI	SW8260C
1,2-Dichloropropane	ND	5.0	1.0	ug/Kg	1	08/05/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI	SW8260C
1,3-Dichloropropane	ND	5.0	1.0	ug/Kg	1	08/05/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI	SW8260C
2,2-Dichloropropane	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI	SW8260C
2-Chlorotoluene	ND	5.0	1.0	ug/Kg	1	08/05/20	JLI	SW8260C
2-Hexanone	ND	25	5.0	ug/Kg	1	08/05/20	JLI	SW8260C
2-Isopropyltoluene	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI	SW8260C
4-Chlorotoluene	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	25	5.0	ug/Kg	1	08/05/20	JLI	SW8260C

Client ID: TRIP BLANK LOW

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
Acetone	ND	25	5.0	ug/Kg	1	08/05/20	JLI SW8260C
Acrylonitrile	ND	10	1.0	ug/Kg	1	08/05/20	JLI SW8260C
Benzene	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI SW8260C
Bromobenzene	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI SW8260C
Bromochloromethane	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI SW8260C
Bromodichloromethane	ND	5.0	1.0	ug/Kg	1	08/05/20	JLI SW8260C
Bromoform	ND	5.0	1.0	ug/Kg	1	08/05/20	JLI SW8260C
Bromomethane	ND	5.0	2.0	ug/Kg	1	08/05/20	JLI SW8260C
Carbon Disulfide	ND	5.0	1.0	ug/Kg	1	08/05/20	JLI SW8260C
Carbon tetrachloride	ND	5.0	1.0	ug/Kg	1	08/05/20	JLI SW8260C
Chlorobenzene	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI SW8260C
Chloroethane	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI SW8260C
Chloroform	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI SW8260C
Chloromethane	ND	5.0	1.0	ug/Kg	1	08/05/20	JLI SW8260C
cis-1,2-Dichloroethene	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI SW8260C
cis-1,3-Dichloropropene	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI SW8260C
Dibromochloromethane	ND	5.0	1.0	ug/Kg	1	08/05/20	JLI SW8260C
Dibromomethane	ND	5.0	1.0	ug/Kg	1	08/05/20	JLI SW8260C
Dichlorodifluoromethane	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI SW8260C
Ethylbenzene	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI SW8260C
Hexachlorobutadiene	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI SW8260C
Isopropylbenzene	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI SW8260C
m&p-Xylene	ND	5.0	1.0	ug/Kg	1	08/05/20	JLI SW8260C
Methyl Ethyl Ketone	ND	30	5.0	ug/Kg	1	08/05/20	JLI SW8260C
Methyl t-butyl ether (MTBE)	ND	10	1.0	ug/Kg	1	08/05/20	JLI SW8260C
Methylene chloride	ND	5.0	5.0	ug/Kg	1	08/05/20	JLI SW8260C
Naphthalene	ND	5.0	1.0	ug/Kg	1	08/05/20	JLI SW8260C
n-Butylbenzene	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI SW8260C
n-Propylbenzene	ND	5.0	1.0	ug/Kg	1	08/05/20	JLI SW8260C
o-Xylene	ND	5.0	1.0	ug/Kg	1	08/05/20	JLI SW8260C
p-Isopropyltoluene	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI SW8260C
sec-Butylbenzene	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI SW8260C
Styrene	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI SW8260C
tert-Butylbenzene	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI SW8260C
Tetrachloroethene	ND	5.0	1.0	ug/Kg	1	08/05/20	JLI SW8260C
Tetrahydrofuran (THF)	ND	10	2.5	ug/Kg	1	08/05/20	JLI SW8260C
Toluene	0.69	J 5.0	0.50	ug/Kg	1	08/05/20	JLI SW8260C
trans-1,2-Dichloroethene	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI SW8260C
trans-1,3-Dichloropropene	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI SW8260C
trans-1,4-dichloro-2-butene	ND	10	2.5	ug/Kg	1	08/05/20	JLI SW8260C
Trichloroethene	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI SW8260C
Trichlorofluoromethane	ND	5.0	1.0	ug/Kg	1	08/05/20	JLI SW8260C
Trichlorotrifluoroethane	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI SW8260C
Vinyl chloride	ND	5.0	0.50	ug/Kg	1	08/05/20	JLI SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98			%	1	08/05/20	JLI 70 - 130 %
% Bromofluorobenzene	96			%	1	08/05/20	JLI 70 - 130 %
% Dibromofluoromethane	95			%	1	08/05/20	JLI 70 - 130 %
% Toluene-d8	98			%	1	08/05/20	JLI 70 - 130 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By
<u>1,4-dioxane</u>							
1,4-dioxane	ND	75		ug/kg	1	08/05/20	JLI SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98			%	1	08/05/20	JLI 70 - 130 %
% Bromofluorobenzene	96			%	1	08/05/20	JLI 70 - 130 %
% Dibromofluoromethane	95			%	1	08/05/20	JLI 70 - 130 %
% Toluene-d8	98			%	1	08/05/20	JLI 70 - 130 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	20		ug/Kg	1	08/05/20	JLI SW8260C
Acrolein	ND	5.0		ug/Kg	1	08/05/20	JLI SW8260C
Acrylonitrile	ND	20		ug/Kg	1	08/05/20	JLI SW8260C
Tert-butyl alcohol	ND	100		ug/Kg	1	08/05/20	JLI SW8260C
Field Extraction	Completed					08/03/20	SW5035A

1

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 07, 2020

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



QA/QC Report

August 07, 2020

QA/QC Data

SDG I.D.: GCG47111

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 540280 (mg/kg), QC Sample No: CG47114 40X (CG47111, CG47112, CG47113, CG47114, CG47115, CG47116)													
<u>Chromium, Hexavalent - Soil</u>													
Chromium, Hexavalent	BRL	0.40	<0.47	<0.47	NC	105						85 - 115	30
Chromium, Hexavalent (Ins)						95.4						85 - 115	30
Chromium, Hexavalent (Sol)						97.6			103			85 - 115	30

QA/QC Batch 540109 (mg/kg), QC Sample No: CG46552 2X (CG47111, CG47112, CG47113, CG47114, CG47115, CG47116)

Mercury - Soil	BRL	0.02	<0.03	<0.03	NC	92.2	91.5	0.8	78.9	73.6	7.0	70 - 130	30 m
Comment:													

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 539996 (mg/kg), QC Sample No: CG46770 (CG47111, CG47112, CG47113)

ICP Metals - Soil

Aluminum	BRL	5.0	9610	9340	2.80	109	122	11.3	NC			75 - 125	35
Antimony	BRL	3.3	<3.8	<3.8	NC	114	109	4.5	92.5			75 - 125	35
Arsenic	BRL	0.67	2.87	2.24	NC	110	121	9.5	92.3			75 - 125	35
Barium	BRL	0.33	31.8	27.6	14.1	107	121	12.3	104			75 - 125	35
Beryllium	BRL	0.27	<0.30	<0.31	NC	104	117	11.8	94.4			75 - 125	35
Cadmium	BRL	0.33	0.80	0.70	NC	105	118	11.7	94.1			75 - 125	35
Calcium	BRL	5.0	4090	4020	1.70	103	118	13.6	NC			75 - 125	35
Chromium	BRL	0.33	12.8	11.3	12.4	106	118	10.7	96.2			75 - 125	35
Cobalt	BRL	0.33	9.80	8.42	15.1	102	115	12.0	94.6			75 - 125	35
Copper	BRL	0.67	42.0	36.2	14.8	104	117	11.8	84.9			75 - 125	35
Iron	BRL	6.7	18300	15400	17.2	86.5	99.7	14.2	NC			75 - 125	35
Lead	BRL	0.33	83.9	70.7	17.1	106	118	10.7	99.3			75 - 125	35
Magnesium	BRL	5.0	4640	3700	22.5	112	125	11.0	NC			75 - 125	35
Manganese	BRL	0.33	291	210	32.3	99.9	115	14.1	>130			75 - 125	35 m
Molybdenum	BRL	0.33	<0.38	<0.38	NC	109	123	12.1	89.1			75 - 125	35
Nickel	BRL	0.33	15.0	12.6	17.4	106	118	10.7	95.7			75 - 125	35
Potassium	BRL	5.0	778	760	2.30	117	106	9.9	>130			75 - 125	35 m
Selenium	BRL	1.3	<1.5	<1.5	NC	108	120	10.5	92.1			75 - 125	35
Silver	BRL	0.33	<0.38	<0.38	NC	104	116	10.9	90.9			75 - 125	35
Sodium	BRL	5.0	734	680	7.60	94.7	110	14.9	NC			75 - 125	35
Thallium	BRL	3.0	<3.4	<3.5	NC	109	124	12.9	89.4			75 - 125	35
Vanadium	BRL	0.33	35.0	32.0	9.00	108	122	12.2	97.2			75 - 125	35
Zinc	BRL	0.67	64.6	53.9	18.1	108	120	10.5	96.4			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 540027 (mg/kg), QC Sample No: CG47114 (CG47114, CG47115, CG47116)

ICP Metals - Soil

Aluminum	BRL	5.0	17900	17400	2.80	110	104	5.6	NC			75 - 125	35
Antimony	BRL	3.3	<3.8	<4.1	NC	110	107	2.8	88.0			75 - 125	35
Arsenic	BRL	0.67	3.62	2.85	NC	110	103	6.6	94.1			75 - 125	35

QA/QC Data

SDG I.D.: GCG47111

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Barium	BRL	0.33	124	90.9	30.8	111	106	4.6	102			75 - 125	35
Beryllium	BRL	0.27	0.58	0.52	NC	103	98.0	5.0	99.9			75 - 125	35
Cadmium	BRL	0.33	1.07	0.98	NC	102	98.2	3.8	99.4			75 - 125	35
Calcium	BRL	5.0	3130	2870	8.70	106	99.5	6.3	NC			75 - 125	35
Chromium	BRL	0.33	34.5	31.0	10.7	105	99.1	5.8	96.9			75 - 125	35
Cobalt	BRL	0.33	11.2	10.4	7.40	103	99.3	3.7	98.0			75 - 125	35
Copper	BRL	0.67	34.0	22.0	42.9	103	98.1	4.9	93.4			75 - 125	35
Iron	BRL	5.0	26500	23200	13.3	88.1	81.1	8.3	NC			75 - 125	35
Lead	BRL	0.33	175	58.8	99.4	107	101	5.8	66.2			75 - 125	35
Magnesium	BRL	5.0	4780	4260	11.5	113	107	5.5	NC			75 - 125	35
Manganese	BRL	0.33	496	379	26.7	100	100	0.0	111			75 - 125	35
Molybdenum	BRL	0.33	0.58	<0.41	NC	108	105	2.8	93.5			75 - 125	35
Nickel	BRL	0.33	26.3	24.3	7.90	103	99.1	3.9	100			75 - 125	35
Potassium	BRL	5.0	2870	2270	23.3	119	113	5.2	>130			75 - 125	35
Selenium	BRL	1.3	<1.5	<1.6	NC	106	103	2.9	97.3			75 - 125	35
Silver	BRL	0.33	<0.38	<0.41	NC	103	97.8	5.2	96.5			75 - 125	35
Sodium	BRL	5.0	256	235	8.60	102	125	20.3	99.9			75 - 125	35
Thallium	BRL	3.0	<1.5	<3.7	NC	106	103	2.9	95.1			75 - 125	35
Vanadium	BRL	0.33	41.0	37.3	9.50	109	104	4.7	96.7			75 - 125	35
Zinc	BRL	0.67	107	61.3	54.3	107	102	4.8	79.6			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

m = This parameter is outside laboratory MS/MSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



QA/QC Report

August 07, 2020

QA/QC Data

SDG I.D.: GCG47111

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 540075 (mg/Kg), QC Sample No: CG47111 50X (CG47111, CG47112, CG47113, CG47114, CG47115, CG47116)													
Total Cyanide (SW9010C Distill.)	BRL	0.50	<0.60	<0.60	NC	90.3			108			80 - 120	30
Comment:													
Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils													
QA/QC Batch 540092 (PH), QC Sample No: CG46770 (CG47111, CG47112, CG47113, CG47114, CG47115, CG47116)													
pH at 25C - Soil			7.86	7.83	0.40	101						85 - 115	20



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QA/QC Report

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SDG I.D.: GCG47111

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 540024 (ug/Kg), QC Sample No: CG47141 2X (CG47111, CG47112, CG47113, CG47114, CG47115, CG47116)										
Polychlorinated Biphenyls - Soil										
PCB-1016	ND	33	87	70	21.7	65			40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	90	72	22.2	72			40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	99	%	103	80	25.1	84			30 - 150	30
% DCBP (Surrogate Rec) (Confirm)	91	%	94	86	8.9	93			30 - 150	30
% TCMX (Surrogate Rec)	92	%	93	80	15.0	71			30 - 150	30
% TCMX (Surrogate Rec) (Confirm)	94	%	97	86	12.0	79			30 - 150	30

Comment:

This batch consists of a Blank, LCS, LCSD and MS,

QA/QC Batch 540026 (ug/Kg), QC Sample No: CG47141 2X (CG47111, CG47112, CG47113, CG47114, CG47115, CG47116)

Pesticides - Soil

4,4' -DDD	ND	1.7	55	63	13.6	41	37	10.3	40 - 140	30
4,4' -DDE	ND	1.7	50	59	16.5	40	36	10.5	40 - 140	30
4,4' -DDT	ND	1.7	47	53	12.0	35	31	12.1	40 - 140	30
a-BHC	ND	1.0	51	56	9.3	32	31	3.2	40 - 140	30
a-Chlordane	ND	3.3	53	59	10.7	38	35	8.2	40 - 140	30
Aldrin	ND	1.0	53	57	7.3	34	31	9.2	40 - 140	30
b-BHC	ND	1.0	58	64	9.8	43	43	0.0	40 - 140	30
Chlordane	ND	3.3	50	57	13.1	37	34	8.5	40 - 140	30
d-BHC	ND	3.3	50	57	13.1	36	32	11.8	40 - 140	30
Dieldrin	ND	1.0	52	59	12.6	38	34	11.1	40 - 140	30
Endosulfan I	ND	3.3	57	62	8.4	37	34	8.5	40 - 140	30
Endosulfan II	ND	3.3	54	62	13.8	40	36	10.5	40 - 140	30
Endosulfan sulfate	ND	3.3	57	63	10.0	37	34	8.5	40 - 140	30
Endrin	ND	3.3	52	59	12.6	38	35	8.2	40 - 140	30
Endrin aldehyde	ND	3.3	52	58	10.9	38	34	11.1	40 - 140	30
Endrin ketone	ND	3.3	60	69	14.0	46	41	11.5	40 - 140	30
g-BHC	ND	1.0	54	57	5.4	34	32	6.1	40 - 140	30
g-Chlordane	ND	3.3	50	57	13.1	37	34	8.5	40 - 140	30
Heptachlor	ND	3.3	51	56	9.3	34	30	12.5	40 - 140	30
Heptachlor epoxide	ND	3.3	53	60	12.4	39	35	10.8	40 - 140	30
Methoxychlor	ND	3.3	53	59	10.7	39	35	10.8	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	56	%	62	66	6.3	46	43	6.7	30 - 150	30

QA/QC Data

SDG I.D.: GCG47111

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% DCBP (Confirmation)	67	%	74	80	7.8	57	51	11.1	30 - 150	30
% TCMX	47	%	55	55	0.0	32	31	3.2	30 - 150	30
% TCMX (Confirmation)	51	%	60	59	1.7	36	35	2.8	30 - 150	30

QA/QC Batch 540003 (ug/kg), QC Sample No: CG47112 (CG47111, CG47112)

Semivolatiles - Soil

1,1-Biphenyl	ND	230	80	77	3.8	77	74	4.0	40 - 140	30
1,2,4,5-Tetrachlorobenzene	ND	230	75	73	2.7	73	70	4.2	40 - 140	30
1,2,4-Trichlorobenzene	ND	230	80	79	1.3	77	74	4.0	40 - 140	30
1,2-Dichlorobenzene	ND	180	74	72	2.7	70	68	2.9	40 - 140	30
1,2-Diphenylhydrazine	ND	230	81	78	3.8	77	74	4.0	40 - 140	30
1,3-Dichlorobenzene	ND	230	74	72	2.7	69	68	1.5	40 - 140	30
1,4-Dichlorobenzene	ND	230	74	71	4.1	69	67	2.9	40 - 140	30
2,4,5-Trichlorophenol	ND	230	95	92	3.2	90	89	1.1	40 - 140	30
2,4,6-Trichlorophenol	ND	130	98	96	2.1	92	89	3.3	30 - 130	30
2,4-Dichlorophenol	ND	130	92	89	3.3	88	84	4.7	30 - 130	30
2,4-Dimethylphenol	ND	230	95	93	2.1	78	76	2.6	30 - 130	30
2,4-Dinitrophenol	ND	230	52	57	9.2	87	85	2.3	30 - 130	30
2,4-Dinitrotoluene	ND	130	93	91	2.2	90	87	3.4	30 - 130	30
2,6-Dinitrotoluene	ND	130	94	90	4.3	92	86	6.7	40 - 140	30
2-Chloronaphthalene	ND	230	85	83	2.4	81	79	2.5	40 - 140	30
2-Chlorophenol	ND	230	92	89	3.3	82	82	0.0	30 - 130	30
2-Methylnaphthalene	ND	230	80	77	3.8	77	74	4.0	40 - 140	30
2-Methylphenol (o-cresol)	ND	230	95	90	5.4	83	80	3.7	40 - 140	30
2-Nitroaniline	ND	330	125	121	3.3	118	110	7.0	40 - 140	30
2-Nitrophenol	ND	230	88	86	2.3	82	82	0.0	40 - 140	30
3&4-Methylphenol (m&p-cresol)	ND	230	96	93	3.2	86	83	3.6	30 - 130	30
3,3'-Dichlorobenzidine	ND	130	82	76	7.6	87	81	7.1	40 - 140	30
3-Nitroaniline	ND	330	102	97	5.0	105	97	7.9	40 - 140	30
4,6-Dinitro-2-methylphenol	ND	230	72	71	1.4	85	81	4.8	30 - 130	30
4-Bromophenyl phenyl ether	ND	230	87	83	4.7	86	82	4.8	40 - 140	30
4-Chloro-3-methylphenol	ND	230	94	91	3.2	90	86	4.5	30 - 130	30
4-Chloroaniline	ND	230	76	68	11.1	81	75	7.7	40 - 140	30
4-Chlorophenyl phenyl ether	ND	230	83	78	6.2	82	76	7.6	40 - 140	30
4-Nitroaniline	ND	230	96	95	1.0	94	88	6.6	40 - 140	30
4-Nitrophenol	ND	230	88	86	2.3	86	84	2.4	30 - 130	30
Acenaphthene	ND	230	84	80	4.9	81	77	5.1	30 - 130	30
Acenaphthylene	ND	130	85	82	3.6	82	79	3.7	40 - 140	30
Acetophenone	ND	230	80	76	5.1	74	71	4.1	40 - 140	30
Aniline	ND	330	71	64	10.4	62	61	1.6	40 - 140	30
Anthracene	ND	230	85	81	4.8	83	79	4.9	40 - 140	30
Atrazine	ND	130	75	70	6.9	73	69	5.6	40 - 140	30
Benz(a)anthracene	ND	230	90	87	3.4	87	86	1.2	40 - 140	30
Benzaldehyde	ND	230	39	37	5.3	70	61	13.7	40 - 140	30
Benzidine	ND	330	58	53	9.0	15	14	6.9	40 - 140	30
Benzo(a)pyrene	ND	130	98	95	3.1	94	91	3.2	40 - 140	30
Benzo(b)fluoranthene	ND	160	110	106	3.7	107	103	3.8	40 - 140	30
Benzo(ghi)perylene	ND	230	97	92	5.3	94	88	6.6	40 - 140	30
Benzo(k)fluoranthene	ND	230	70	69	1.4	66	63	4.7	40 - 140	30
Benzoic Acid	ND	670	47	42	11.2	67	59	12.7	30 - 130	30
Benzyl butyl phthalate	ND	230	102	97	5.0	100	94	6.2	40 - 140	30
Bis(2-chloroethoxy)methane	ND	230	84	81	3.6	80	77	3.8	40 - 140	30
Bis(2-chloroethyl)ether	ND	130	77	73	5.3	71	69	2.9	40 - 140	30

QA/QC Data

SDG I.D.: GCG47111

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Bis(2-ethylhexyl)phthalate	ND	230	103	97	6.0	99	94	5.2	40 - 140	30
Caprolactam	ND	230	85	84	1.2	82	77	6.3	40 - 140	30
Carbazole	ND	230	86	83	3.6	84	79	6.1	40 - 140	30
Chrysene	ND	230	86	83	3.6	82	80	2.5	40 - 140	30
Dibenz(a,h)anthracene	ND	130	97	92	5.3	93	88	5.5	40 - 140	30
Dibenzofuran	ND	230	83	80	3.7	80	76	5.1	40 - 140	30
Diethyl phthalate	ND	230	85	82	3.6	82	78	5.0	40 - 140	30
Dimethylphthalate	ND	230	88	84	4.7	84	80	4.9	40 - 140	30
Di-n-butylphthalate	ND	670	93	88	5.5	92	87	5.6	40 - 140	30
Di-n-octylphthalate	ND	230	94	89	5.5	91	87	4.5	40 - 140	30
Fluoranthene	ND	230	83	81	2.4	84	82	2.4	40 - 140	30
Fluorene	ND	230	83	81	2.4	81	78	3.8	40 - 140	30
Hexachlorobenzene	ND	130	82	78	5.0	81	77	5.1	40 - 140	30
Hexachlorobutadiene	ND	230	80	77	3.8	77	73	5.3	40 - 140	30
Hexachlorocyclopentadiene	ND	230	69	69	0.0	69	66	4.4	40 - 140	30
Hexachloroethane	ND	130	76	73	4.0	71	68	4.3	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	99	94	5.2	96	91	5.3	40 - 140	30
Isophorone	ND	130	78	74	5.3	74	71	4.1	40 - 140	30
Naphthalene	ND	230	78	75	3.9	75	71	5.5	40 - 140	30
Nitrobenzene	ND	130	85	82	3.6	78	77	1.3	40 - 140	30
N-Nitrosodimethylamine	ND	230	69	67	2.9	66	63	4.7	40 - 140	30
N-Nitrosodi-n-propylamine	ND	130	81	79	2.5	77	74	4.0	40 - 140	30
N-Nitrosodiphenylamine	ND	130	86	83	3.6	81	76	6.4	40 - 140	30
Pentachloronitrobenzene	ND	230	87	83	4.7	87	79	9.6	40 - 140	30
Pentachlorophenol	ND	230	92	87	5.6	88	84	4.7	30 - 130	30
Phenanthrene	ND	130	81	78	3.8	80	78	2.5	40 - 140	30
Phenol	ND	230	88	85	3.5	81	79	2.5	30 - 130	30
Pyrene	ND	230	85	82	3.6	85	83	2.4	30 - 130	30
Pyridine	ND	230	55	54	1.8	55	53	3.7	40 - 140	30
% 2,4,6-Tribromophenol	86	%	87	84	3.5	83	77	7.5	30 - 130	30
% 2-Fluorobiphenyl	73	%	77	75	2.6	74	71	4.1	30 - 130	30
% 2-Fluorophenol	80	%	87	84	3.5	77	75	2.6	30 - 130	30
% Nitrobenzene-d5	69	%	79	76	3.9	72	69	4.3	30 - 130	30
% Phenol-d5	77	%	84	83	1.2	77	75	2.6	30 - 130	30
% Terphenyl-d14	89	%	85	82	3.6	84	78	7.4	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 540034 (ug/kg), QC Sample No: CG47115 (CG47113, CG47114, CG47115)

Semivolatiles - Soil

1,1-Biphenyl	ND	230	69	71	2.9	72			40 - 140	30
1,2,4,5-Tetrachlorobenzene	ND	230	71	69	2.9	67			40 - 140	30
1,2,4-Trichlorobenzene	ND	230	71	67	5.8	65			40 - 140	30
1,2-Dichlorobenzene	ND	180	68	59	14.2	51			40 - 140	30
1,2-Diphenylhydrazine	ND	230	80	84	4.9	82			40 - 140	30
1,3-Dichlorobenzene	ND	230	68	57	17.6	50			40 - 140	30
1,4-Dichlorobenzene	ND	230	69	61	12.3	50			40 - 140	30
2,4,5-Trichlorophenol	ND	230	80	83	3.7	82			40 - 140	30
2,4,6-Trichlorophenol	ND	130	83	86	3.6	82			30 - 130	30
2,4-Dichlorophenol	ND	130	75	75	0.0	72			30 - 130	30
2,4-Dimethylphenol	ND	230	81	81	0.0	63			30 - 130	30
2,4-Dinitrophenol	ND	230	69	58	17.3	66			30 - 130	30

QA/QC Data

SDG I.D.: GCG47111

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
2,4-Dinitrotoluene	ND	130	82	87	5.9	87			30 - 130	30
2,6-Dinitrotoluene	ND	130	81	82	1.2	84			40 - 140	30
2-Chloronaphthalene	ND	230	72	74	2.7	75			40 - 140	30
2-Chlorophenol	ND	230	78	73	6.6	65			30 - 130	30
2-Methylnaphthalene	ND	230	70	68	2.9	67			40 - 140	30
2-Methylphenol (o-cresol)	ND	230	78	77	1.3	66			40 - 140	30
2-Nitroaniline	ND	330	162	167	3.0	154			40 - 140	30
2-Nitrophenol	ND	230	104	103	1.0	94			40 - 140	30
3&4-Methylphenol (m&p-cresol)	ND	230	75	73	2.7	65			30 - 130	30
3,3'-Dichlorobenzidine	ND	130	82	87	5.9	73			40 - 140	30
3-Nitroaniline	ND	330	80	88	9.5	84			40 - 140	30
4,6-Dinitro-2-methylphenol	ND	230	79	76	3.9	73			30 - 130	30
4-Bromophenyl phenyl ether	ND	230	76	78	2.6	82			40 - 140	30
4-Chloro-3-methylphenol	ND	230	81	82	1.2	80			30 - 130	30
4-Chloroaniline	ND	230	77	80	3.8	72			40 - 140	30
4-Chlorophenyl phenyl ether	ND	230	73	78	6.6	77			40 - 140	30
4-Nitroaniline	ND	230	90	94	4.3	95			40 - 140	30
4-Nitrophenol	ND	230	107	112	4.6	106			30 - 130	30
Acenaphthene	ND	230	75	79	5.2	77			30 - 130	30
Acenaphthylene	ND	130	70	71	1.4	74			40 - 140	30
Acetophenone	ND	230	69	64	7.5	59			40 - 140	30
Aniline	ND	330	59	57	3.4	42			40 - 140	30
Anthracene	ND	230	71	73	2.8	77			40 - 140	30
Atrazine	ND	130	63	65	3.1	67			40 - 140	30
Benz(a)anthracene	ND	230	79	82	3.7	98			40 - 140	30
Benzaldehyde	ND	230	34	28	19.4	50			40 - 140	30
Benzidine	ND	330	49	54	9.7	<10			40 - 140	30
Benzo(a)pyrene	ND	130	81	85	4.8	97			40 - 140	30
Benzo(b)fluoranthene	ND	160	93	98	5.2	111			40 - 140	30
Benzo(ghi)perylene	ND	230	76	80	5.1	79			40 - 140	30
Benzo(k)fluoranthene	ND	230	62	60	3.3	78			40 - 140	30
Benzoic Acid	ND	670	65	59	9.7	32			30 - 130	30
Benzyl butyl phthalate	ND	230	86	89	3.4	86			40 - 140	30
Bis(2-chloroethoxy)methane	ND	230	70	69	1.4	66			40 - 140	30
Bis(2-chloroethyl)ether	ND	130	63	63	0.0	49			40 - 140	30
Bis(2-chloroisopropyl)ether	ND	230	71	65	8.8	57			40 - 140	30
Bis(2-ethylhexyl)phthalate	ND	230	85	87	2.3	99			40 - 140	30
Caprolactam	ND	230	65	67	3.0	66			40 - 140	30
Carbazole	ND	230	71	74	4.1	75			40 - 140	30
Chrysene	ND	230	78	79	1.3	107			40 - 140	30
Dibenz(a,h)anthracene	ND	130	79	80	1.3	80			40 - 140	30
Dibenzofuran	ND	230	70	73	4.2	73			40 - 140	30
Diethyl phthalate	ND	230	80	84	4.9	84			40 - 140	30
Dimethylphthalate	ND	230	76	81	6.4	81			40 - 140	30
Di-n-butylphthalate	ND	670	78	81	3.8	80			40 - 140	30
Di-n-octylphthalate	ND	230	86	91	5.6	93			40 - 140	30
Fluoranthene	ND	230	74	75	1.3	106			40 - 140	30
Fluorene	ND	230	73	76	4.0	75			40 - 140	30
Hexachlorobenzene	ND	130	86	90	4.5	88			40 - 140	30
Hexachlorobutadiene	ND	230	79	74	6.5	71			40 - 140	30
Hexachlorocyclopentadiene	ND	230	68	64	6.1	44			40 - 140	30
Hexachloroethane	ND	130	73	62	16.3	55			40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	79	83	4.9	80			40 - 140	30

QA/QC Data

SDG I.D.: GCG47111

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Isophorone	ND	130	69	67	2.9	64			40 - 140	30
Naphthalene	ND	230	69	65	6.0	64			40 - 140	30
Nitrobenzene	ND	130	80	75	6.5	68			40 - 140	30
N-Nitrosodimethylamine	ND	230	49	42	15.4	29			40 - 140	30
N-Nitrosodi-n-propylamine	ND	130	70	67	4.4	60			40 - 140	30
N-Nitrosodiphenylamine	ND	130	73	79	7.9	78			40 - 140	30
Pentachloronitrobenzene	ND	230	86	90	4.5	91			40 - 140	30
Pentachlorophenol	ND	230	88	94	6.6	81			30 - 130	30
Phenanthrene	ND	130	72	75	4.1	96			40 - 140	30
Phenol	ND	230	84	82	2.4	72			30 - 130	30
Pyrene	ND	230	71	75	5.5	105			30 - 130	30
Pyridine	ND	230	43	35	20.5	26			40 - 140	30
% 2,4,6-Tribromophenol	108	%	95	101	6.1	102			30 - 130	30
% 2-Fluorobiphenyl	76	%	68	70	2.9	70			30 - 130	30
% 2-Fluorophenol	64	%	67	62	7.8	50			30 - 130	30
% Nitrobenzene-d5	74	%	73	69	5.6	62			30 - 130	30
% Phenol-d5	70	%	71	69	2.9	61			30 - 130	30
% Terphenyl-d14	84	%	74	79	6.5	75			30 - 130	30

Comment:

This batch consists of a Blank, LCS, LCSD and MS.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 540037 (ug/kg), QC Sample No: CG47128 (CG47116)

Semivolatiles - Soil

1,1-Biphenyl	ND	230	80	86	7.2	76	78	2.6	40 - 140	30
1,2,4,5-Tetrachlorobenzene	ND	230	71	75	5.5	68	74	8.5	40 - 140	30
1,2,4-Trichlorobenzene	ND	230	75	73	2.7	67	72	7.2	40 - 140	30
1,2-Dichlorobenzene	ND	180	70	69	1.4	60	63	4.9	40 - 140	30
1,2-Diphenylhydrazine	ND	230	90	90	0.0	77	81	5.1	40 - 140	30
1,3-Dichlorobenzene	ND	230	66	66	0.0	58	61	5.0	40 - 140	30
1,4-Dichlorobenzene	ND	230	67	69	2.9	60	62	3.3	40 - 140	30
2,4,5-Trichlorophenol	ND	230	92	97	5.3	83	87	4.7	40 - 140	30
2,4,6-Trichlorophenol	ND	130	93	99	6.3	87	88	1.1	30 - 130	30
2,4-Dichlorophenol	ND	130	82	83	1.2	77	81	5.1	30 - 130	30
2,4-Dimethylphenol	ND	230	87	93	6.7	70	79	12.1	30 - 130	30
2,4-Dinitrophenol	ND	230	58	71	20.2	76	81	6.4	30 - 130	30
2,4-Dinitrotoluene	ND	130	96	96	0.0	79	85	7.3	30 - 130	30
2,6-Dinitrotoluene	ND	130	95	97	2.1	78	86	9.8	40 - 140	30
2-Chloronaphthalene	ND	230	87	91	4.5	81	81	0.0	40 - 140	30
2-Chlorophenol	ND	230	79	80	1.3	73	77	5.3	30 - 130	30
2-Methylnaphthalene	ND	230	77	78	1.3	71	77	8.1	40 - 140	30
2-Methylphenol (o-cresol)	ND	230	85	89	4.6	76	80	5.1	40 - 140	30
2-Nitroaniline	ND	330	156	150	3.9	124	130	4.7	40 - 140	30
2-Nitrophenol	ND	230	98	96	2.1	84	92	9.1	40 - 140	30
3&4-Methylphenol (m&p-cresol)	ND	230	87	95	8.8	82	89	8.2	30 - 130	30
3,3'-Dichlorobenzidine	ND	130	111	113	1.8	89	90	1.1	40 - 140	30
3-Nitroaniline	ND	330	107	107	0.0	93	92	1.1	40 - 140	30
4,6-Dinitro-2-methylphenol	ND	230	77	87	12.2	79	84	6.1	30 - 130	30
4-Bromophenyl phenyl ether	ND	230	88	93	5.5	81	88	8.3	40 - 140	30
4-Chloro-3-methylphenol	ND	230	93	94	1.1	84	89	5.8	30 - 130	30
4-Chloroaniline	ND	230	90	88	2.2	79	81	2.5	40 - 140	30
4-Chlorophenyl phenyl ether	ND	230	95	99	4.1	84	88	4.7	40 - 140	30

QA/QC Data

SDG I.D.: GCG47111

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
4-Nitroaniline	ND	230	99	99	0.0	83	90	8.1	40 - 140	30
4-Nitrophenol	ND	230	114	111	2.7	96	101	5.1	30 - 130	30
Acenaphthene	ND	230	87	92	5.6	78	82	5.0	30 - 130	30
Acenaphthylene	ND	130	87	90	3.4	77	80	3.8	40 - 140	30
Acetophenone	ND	230	74	77	4.0	69	75	8.3	40 - 140	30
Aniline	ND	330	69	70	1.4	54	55	1.8	40 - 140	30
Anthracene	ND	230	92	98	6.3	85	89	4.6	40 - 140	30
Atrazine	ND	130	73	78	6.6	65	70	7.4	40 - 140	30
Benz(a)anthracene	ND	230	94	98	4.2	83	86	3.6	40 - 140	30
Benzaldehyde	ND	230	30	33	9.5	71	61	15.2	40 - 140	30
Benzidine	ND	330	78	82	5.0	<10	<10	NC	40 - 140	30
Benzo(a)pyrene	ND	130	95	96	1.0	83	88	5.8	40 - 140	30
Benzo(b)fluoranthene	ND	160	111	111	0.0	95	94	1.1	40 - 140	30
Benzo(ghi)perylene	ND	230	92	96	4.3	79	85	7.3	40 - 140	30
Benzo(k)fluoranthene	ND	230	71	69	2.9	61	59	3.3	40 - 140	30
Benzoic Acid	ND	670	72	77	6.7	81	83	2.4	30 - 130	30
Benzyl butyl phthalate	ND	230	99	101	2.0	81	82	1.2	40 - 140	30
Bis(2-chloroethoxy)methane	ND	230	77	78	1.3	70	76	8.2	40 - 140	30
Bis(2-chloroethyl)ether	ND	130	73	69	5.6	62	66	6.3	40 - 140	30
Bis(2-ethylhexyl)phthalate	ND	230	96	95	1.0	85	84	1.2	40 - 140	30
Caprolactam	ND	230	82	82	0.0	72	79	9.3	40 - 140	30
Carbazole	ND	230	93	98	5.2	81	88	8.3	40 - 140	30
Chrysene	ND	230	90	94	4.3	79	84	6.1	40 - 140	30
Dibenz(a,h)anthracene	ND	130	95	99	4.1	81	87	7.1	40 - 140	30
Dibenzofuran	ND	230	87	90	3.4	78	79	1.3	40 - 140	30
Diethyl phthalate	ND	230	96	96	0.0	81	87	7.1	40 - 140	30
Dimethylphthalate	ND	230	92	94	2.2	81	87	7.1	40 - 140	30
Di-n-butylphthalate	ND	670	109	111	1.8	90	84	6.9	40 - 140	30
Di-n-octylphthalate	ND	230	104	108	3.8	102	95	7.1	40 - 140	30
Fluoranthene	ND	230	94	97	3.1	78	80	2.5	40 - 140	30
Fluorene	ND	230	96	97	1.0	84	89	5.8	40 - 140	30
Hexachlorobenzene	ND	130	98	104	5.9	85	92	7.9	40 - 140	30
Hexachlorobutadiene	ND	230	78	76	2.6	69	74	7.0	40 - 140	30
Hexachlorocyclopentadiene	ND	230	71	76	6.8	66	73	10.1	40 - 140	30
Hexachloroethane	ND	130	72	73	1.4	64	67	4.6	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	95	97	2.1	79	85	7.3	40 - 140	30
Isophorone	ND	130	75	74	1.3	66	72	8.7	40 - 140	30
Naphthalene	ND	230	79	77	2.6	71	75	5.5	40 - 140	30
Nitrobenzene	ND	130	79	80	1.3	73	80	9.2	40 - 140	30
N-Nitrosodimethylamine	ND	230	46	50	8.3	40	41	2.5	40 - 140	30
N-Nitrosodi-n-propylamine	ND	130	77	80	3.8	71	78	9.4	40 - 140	30
N-Nitrosodiphenylamine	ND	130	93	92	1.1	77	80	3.8	40 - 140	30
Pentachloronitrobenzene	ND	230	94	102	8.2	83	91	9.2	40 - 140	30
Pentachlorophenol	ND	230	86	89	3.4	80	80	0.0	30 - 130	30
Phenanthrene	ND	130	89	96	7.6	82	87	5.9	40 - 140	30
Phenol	ND	230	81	84	3.6	75	80	6.5	30 - 130	30
Pyrene	ND	230	97	99	2.0	73	74	1.4	30 - 130	30
Pyridine	ND	230	40	42	4.9	36	34	5.7	40 - 140	30
% 2,4,6-Tribromophenol	102	%	111	113	1.8	96	100	4.1	30 - 130	30
% 2-Fluorobiphenyl	69	%	78	81	3.8	69	73	5.6	30 - 130	30
% 2-Fluorophenol	66	%	75	75	0.0	66	69	4.4	30 - 130	30
% Nitrobenzene-d5	72	%	73	74	1.4	66	72	8.7	30 - 130	30
% Phenol-d5	71	%	78	79	1.3	71	77	8.1	30 - 130	30

QA/QC Data

SDG I.D.: GCG47111

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% Terphenyl-d14	85	%	100	102	2.0	73	72	1.4	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 540346 (ug/kg), QC Sample No: CG47112 (CG47111, CG47112, CG47113, CG47114, CG47115, CG47116, CG47118)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	102	105	2.9	83			70 - 130	30
1,1,1-Trichloroethane	ND	5.0	102	105	2.9	78			70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	106	110	3.7	83			70 - 130	30
1,1,2-Trichloroethane	ND	5.0	101	102	1.0	82			70 - 130	30
1,1-Dichloroethane	ND	5.0	102	106	3.8	79			70 - 130	30
1,1-Dichloroethene	ND	5.0	112	118	5.2	85			70 - 130	30
1,1-Dichloropropene	ND	5.0	107	108	0.9	86			70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	114	110	3.6	70			70 - 130	30
1,2,3-Trichloropropane	ND	5.0	100	106	5.8	83			70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	117	112	4.4	69			70 - 130	30 m
1,2,4-Trimethylbenzene	ND	1.0	104	104	0.0	79			70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	106	110	3.7	77			70 - 130	30
1,2-Dibromoethane	ND	5.0	99	104	4.9	80			70 - 130	30
1,2-Dichlorobenzene	ND	5.0	104	105	1.0	77			70 - 130	30
1,2-Dichloroethane	ND	5.0	100	103	3.0	82			70 - 130	30
1,2-Dichloropropane	ND	5.0	99	103	4.0	85			70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	104	104	0.0	80			70 - 130	30
1,3-Dichlorobenzene	ND	5.0	107	106	0.9	76			70 - 130	30
1,3-Dichloropropane	ND	5.0	101	105	3.9	84			70 - 130	30
1,4-Dichlorobenzene	ND	5.0	104	104	0.0	74			70 - 130	30
1,4-dioxane	ND	100	109	110	0.9	87			70 - 130	30
2,2-Dichloropropane	ND	5.0	108	111	2.7	77			70 - 130	30
2-Chlorotoluene	ND	5.0	106	106	0.0	81			70 - 130	30
2-Hexanone	ND	25	104	108	3.8	85			70 - 130	30
2-Isopropyltoluene	ND	5.0	106	107	0.9	83			70 - 130	30
4-Chlorotoluene	ND	5.0	106	105	0.9	78			70 - 130	30
4-Methyl-2-pentanone	ND	25	101	107	5.8	85			70 - 130	30
Acetone	ND	10	126	127	0.8	111			70 - 130	30
Acrolein	ND	25	88	93	5.5	52			70 - 130	30 m
Acrylonitrile	ND	5.0	98	109	10.6	76			70 - 130	30
Benzene	ND	1.0	103	106	2.9	86			70 - 130	30
Bromobenzene	ND	5.0	103	105	1.9	79			70 - 130	30
Bromochloromethane	ND	5.0	101	103	2.0	79			70 - 130	30
Bromodichloromethane	ND	5.0	102	104	1.9	80			70 - 130	30
Bromoform	ND	5.0	104	107	2.8	74			70 - 130	30
Bromomethane	ND	5.0	111	118	6.1	81			70 - 130	30
Carbon Disulfide	ND	5.0	117	120	2.5	81			70 - 130	30
Carbon tetrachloride	ND	5.0	108	110	1.8	76			70 - 130	30
Chlorobenzene	ND	5.0	102	105	2.9	82			70 - 130	30
Chloroethane	ND	5.0	108	115	6.3	84			70 - 130	30
Chloroform	ND	5.0	100	103	3.0	77			70 - 130	30
Chloromethane	ND	5.0	107	111	3.7	80			70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	100	91	9.4	82			70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	102	105	2.9	79			70 - 130	30
Dibromochloromethane	ND	3.0	108	110	1.8	84			70 - 130	30
Dibromomethane	ND	5.0	99	101	2.0	80			70 - 130	30

QA/QC Data

SDG I.D.: GCG47111

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Dichlorodifluoromethane	ND	5.0	131	134	2.3	94			70 - 130	30
Ethylbenzene	ND	1.0	105	105	0.0	84			70 - 130	30
Hexachlorobutadiene	ND	5.0	119	112	6.1	73			70 - 130	30
Isopropylbenzene	ND	1.0	105	108	2.8	84			70 - 130	30
m&p-Xylene	ND	2.0	103	105	1.9	84			70 - 130	30
Methyl ethyl ketone	ND	5.0	112	114	1.8	86			70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	95	99	4.1	74			70 - 130	30
Methylene chloride	ND	5.0	93	95	2.1	73			70 - 130	30
Naphthalene	ND	5.0	113	116	2.6	73			70 - 130	30
n-Butylbenzene	ND	1.0	113	107	5.5	79			70 - 130	30
n-Propylbenzene	ND	1.0	108	107	0.9	82			70 - 130	30
o-Xylene	ND	2.0	104	105	1.0	84			70 - 130	30
p-Isopropyltoluene	ND	1.0	110	107	2.8	82			70 - 130	30
sec-Butylbenzene	ND	1.0	114	113	0.9	87			70 - 130	30
Styrene	ND	5.0	102	104	1.9	80			70 - 130	30
tert-butyl alcohol	ND	100	106	102	3.8	77			70 - 130	30
tert-Butylbenzene	ND	1.0	105	106	0.9	83			70 - 130	30
Tetrachloroethene	ND	5.0	108	106	1.9	86			70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	100	107	6.8	81			70 - 130	30
Toluene	ND	1.0	105	107	1.9	85			70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	116	119	2.6	86			70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	103	104	1.0	77			70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	119	126	5.7	81			70 - 130	30
Trichloroethene	ND	5.0	105	107	1.9	86			70 - 130	30
Trichlorofluoromethane	ND	5.0	121	121	0.0	87			70 - 130	30
Trichlorotrifluoroethane	ND	5.0	114	110	3.6	82			70 - 130	30
Vinyl chloride	ND	5.0	124	126	1.6	92			70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	100	101	1.0	99			70 - 130	30
% Bromofluorobenzene	98	%	99	99	0.0	99			70 - 130	30
% Dibromofluoromethane	98	%	100	101	1.0	90			70 - 130	30
% Toluene-d8	99	%	100	100	0.0	100			70 - 130	30

Comment:

The MSD is not reported for this LL soil batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 540346H (ug/kg), QC Sample No: CG47112 50X (CG47117 (50X))

Volatiles - Soil (High Level)

1,1,1,2-Tetrachloroethane	ND	250	107	103	3.8	95	88	7.7	70 - 130	30
1,1,1-Trichloroethane	ND	250	106	101	4.8	90	84	6.9	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	250	111	106	4.6	98	91	7.4	70 - 130	30
1,1,2-Trichloroethane	ND	250	103	98	5.0	93	85	9.0	70 - 130	30
1,1-Dichloroethane	ND	250	106	101	4.8	91	85	6.8	70 - 130	30
1,1-Dichloroethene	ND	250	110	105	4.7	101	91	10.4	70 - 130	30
1,1-Dichloropropene	ND	250	112	109	2.7	104	96	8.0	70 - 130	30
1,2,3-Trichlorobenzene	ND	250	120	114	5.1	97	91	6.4	70 - 130	30
1,2,3-Trichloropropane	ND	250	102	99	3.0	97	91	6.4	70 - 130	30
1,2,4-Trichlorobenzene	ND	250	126	120	4.9	100	93	7.3	70 - 130	30
1,2,4-Trimethylbenzene	ND	250	108	103	4.7	98	90	8.5	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	250	112	108	3.6	90	84	6.9	70 - 130	30
1,2-Dibromoethane	ND	250	104	100	3.9	94	88	6.6	70 - 130	30
1,2-Dichlorobenzene	ND	250	110	105	4.7	95	88	7.7	70 - 130	30
1,2-Dichloroethane	ND	250	102	98	4.0	95	87	8.8	70 - 130	30

QA/QC Data

SDG I.D.: GCG47111

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,2-Dichloropropane	ND	250	104	101	2.9	96	88	8.7	70 - 130	30
1,3,5-Trimethylbenzene	ND	250	109	104	4.7	99	91	8.4	70 - 130	30
1,3-Dichlorobenzene	ND	250	111	107	3.7	99	90	9.5	70 - 130	30
1,3-Dichloropropane	ND	250	106	103	2.9	98	91	7.4	70 - 130	30
1,4-Dichlorobenzene	ND	250	110	106	3.7	97	90	7.5	70 - 130	30
1,4-dioxane	ND	5000	121	108	11.4	103	98	5.0	70 - 130	30
2,2-Dichloropropane	ND	250	102	92	10.3	92	85	7.9	70 - 130	30
2-Chlorotoluene	ND	250	109	104	4.7	100	92	8.3	70 - 130	30
2-Hexanone	ND	1300	99	97	2.0	94	89	5.5	70 - 130	30
2-Isopropyltoluene	ND	250	111	107	3.7	101	94	7.2	70 - 130	30
4-Chlorotoluene	ND	250	109	105	3.7	97	90	7.5	70 - 130	30
4-Methyl-2-pentanone	ND	1300	103	99	4.0	98	92	6.3	70 - 130	30
Acetone	ND	500	102	88	14.7	85	80	6.1	70 - 130	30
Acrolein	ND	1300	84	81	3.6	77	74	4.0	70 - 130	30
Acrylonitrile	ND	250	104	100	3.9	92	87	5.6	70 - 130	30
Benzene	ND	250	108	104	3.8	100	92	8.3	70 - 130	30
Bromobenzene	ND	250	106	101	4.8	96	88	8.7	70 - 130	30
Bromochloromethane	ND	250	103	97	6.0	89	85	4.6	70 - 130	30
Bromodichloromethane	ND	250	103	98	5.0	91	84	8.0	70 - 130	30
Bromoform	ND	250	103	99	4.0	85	82	3.6	70 - 130	30
Bromomethane	ND	250	83	87	4.7	92	88	4.4	70 - 130	30
Carbon Disulfide	ND	250	111	110	0.9	100	93	7.3	70 - 130	30
Carbon tetrachloride	ND	250	110	103	6.6	88	83	5.8	70 - 130	30
Chlorobenzene	ND	250	109	105	3.7	99	93	6.3	70 - 130	30
Chloroethane	ND	250	49	46	6.3	94	91	3.2	70 - 130	30
Chloroform	ND	250	103	96	7.0	88	81	8.3	70 - 130	30
Chloromethane	ND	250	119	108	9.7	93	85	9.0	70 - 130	30
cis-1,2-Dichloroethene	ND	250	89	85	4.6	91	87	4.5	70 - 130	30
cis-1,3-Dichloropropene	ND	250	106	101	4.8	91	85	6.8	70 - 130	30
Dibromochloromethane	ND	150	110	104	5.6	96	90	6.5	70 - 130	30
Dibromomethane	ND	250	99	95	4.1	91	85	6.8	70 - 130	30
Dichlorodifluoromethane	ND	250	136	129	5.3	117	106	9.9	70 - 130	30
Ethylbenzene	ND	250	112	108	3.6	102	96	6.1	70 - 130	30
Hexachlorobutadiene	ND	250	132	124	6.3	112	102	9.3	70 - 130	30
Isopropylbenzene	ND	250	110	107	2.8	102	95	7.1	70 - 130	30
m&p-Xylene	ND	250	112	107	4.6	101	95	6.1	70 - 130	30
Methyl ethyl ketone	ND	250	107	95	11.9	86	83	3.6	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	250	97	92	5.3	82	77	6.3	70 - 130	30
Methylene chloride	ND	250	95	90	5.4	81	75	7.7	70 - 130	30
Naphthalene	ND	250	118	112	5.2	97	92	5.3	70 - 130	30
n-Butylbenzene	ND	250	121	116	4.2	108	99	8.7	70 - 130	30
n-Propylbenzene	ND	250	113	110	2.7	104	95	9.0	70 - 130	30
o-Xylene	ND	250	110	107	2.8	100	93	7.3	70 - 130	30
p-Isopropyltoluene	ND	250	116	111	4.4	105	97	7.9	70 - 130	30
sec-Butylbenzene	ND	250	120	116	3.4	111	102	8.5	70 - 130	30
Styrene	ND	250	108	105	2.8	96	91	5.3	70 - 130	30
tert-butyl alcohol	ND	5000	101	97	4.0	93	87	6.7	70 - 130	30
tert-Butylbenzene	ND	250	109	105	3.7	102	93	9.2	70 - 130	30
Tetrachloroethene	ND	250	114	111	2.7	106	97	8.9	70 - 130	30
Tetrahydrofuran (THF)	ND	250	106	100	5.8	97	92	5.3	70 - 130	30
Toluene	ND	250	109	105	3.7	100	93	7.3	70 - 130	30
trans-1,2-Dichloroethene	ND	250	121	116	4.2	104	96	8.0	70 - 130	30
trans-1,3-Dichloropropene	ND	250	103	99	4.0	89	83	7.0	70 - 130	30

QA/QC Data

SDG I.D.: GCG47111

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
trans-1,4-dichloro-2-butene	ND	250	123	118	4.1	99	93	6.3	70 - 130	30
Trichloroethene	ND	250	109	106	2.8	102	94	8.2	70 - 130	30
Trichlorofluoromethane	ND	250	33	32	3.1	106	97	8.9	70 - 130	30
Trichlorotrifluoroethane	ND	250	110	109	0.9	102	93	9.2	70 - 130	30
Vinyl chloride	ND	250	140	134	4.4	109	101	7.6	70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	102	100	2.0	98	99	1.0	70 - 130	30
% Bromofluorobenzene	97	%	99	100	1.0	99	99	0.0	70 - 130	30
% Dibromofluoromethane	93	%	98	97	1.0	90	91	1.1	70 - 130	30
% Toluene-d8	100	%	100	99	1.0	100	99	1.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 540513H (ug/kg), QC Sample No: CG47561 50X (CG47113 (50X))

Volatiles - Soil (High Level)

1,2,4-Trimethylbenzene	ND	250	98	98	0.0	98	101	3.0	70 - 130	30
1,3,5-Trimethylbenzene	ND	250	98	98	0.0	100	102	2.0	70 - 130	30
Benzene	ND	250	102	102	0.0	103	106	2.9	70 - 130	30
Ethylbenzene	ND	250	105	105	0.0	108	110	1.8	70 - 130	30
m&p-Xylene	ND	250	105	105	0.0	107	109	1.9	70 - 130	30
n-Butylbenzene	ND	250	109	109	0.0	108	112	3.6	70 - 130	30
n-Propylbenzene	ND	250	104	104	0.0	105	108	2.8	70 - 130	30
o-Xylene	ND	250	103	102	1.0	104	107	2.8	70 - 130	30
Toluene	ND	250	103	102	1.0	104	106	1.9	70 - 130	30
% 1,2-dichlorobenzene-d4	101	%	100	100	0.0	102	101	1.0	70 - 130	30
% Bromofluorobenzene	98	%	101	100	1.0	100	100	0.0	70 - 130	30
% Dibromofluoromethane	89	%	92	90	2.2	90	91	1.1	70 - 130	30
% Toluene-d8	99	%	100	101	1.0	101	100	1.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.

m = This parameter is outside laboratory MS/MSD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director

August 07, 2020

Friday, August 07, 2020

Criteria: NJ: RC; NY: 375, 375GWP, 375RRS; PA: REG

State: NY

Sample Criteria Exceedances Report

GCG47111 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CG47111	\$8270SMRDP	N-Nitrosodimethylamine	PA / Reg Fill Limits GP-1a / Organics	ND	77	0.17	0.17	ug/Kg
CG47111	\$8270SMRDP	N-Nitrosodi-n-propylamine	PA / Reg Fill Limits GP-1a / Organics	ND	77	5.1	5.1	ug/Kg
CG47111	\$8270SMRDP	Bis(2-chloroethyl)ether	PA / Reg Fill Limits GP-1a / Organics	ND	77	17	17	ug/Kg
CG47112	\$8270SMRDP	Bis(2-chloroethyl)ether	PA / Reg Fill Limits GP-1a / Organics	ND	74	17	17	ug/Kg
CG47112	\$8270SMRDP	N-Nitrosodimethylamine	PA / Reg Fill Limits GP-1a / Organics	ND	74	0.17	0.17	ug/Kg
CG47112	\$8270SMRDP	N-Nitrosodi-n-propylamine	PA / Reg Fill Limits GP-1a / Organics	ND	74	5.1	5.1	ug/Kg
CG47112	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	32.6	0.39	30		mg/Kg
CG47113	\$8260MADPR	Benzene	NY / 375-6.8 Volatiles / Ground Water Protection	98	60	60	60	ug/Kg
CG47113	\$8260MADPR	Toluene	NY / 375-6.8 Volatiles / Ground Water Protection	1400	290	700	700	ug/Kg
CG47113	\$8260MADPR	Toluene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	1400	290	700	700	ug/Kg
CG47113	\$8260MADPR	Benzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	98	60	60	60	ug/Kg
CG47113	\$8270SMRDP	Bis(2-chloroethyl)ether	PA / Reg Fill Limits GP-1a / Organics	ND	79	17	17	ug/Kg
CG47113	\$8270SMRDP	N-Nitrosodimethylamine	PA / Reg Fill Limits GP-1a / Organics	ND	79	0.17	0.17	ug/Kg
CG47113	\$8270SMRDP	N-Nitrosodi-n-propylamine	PA / Reg Fill Limits GP-1a / Organics	ND	79	5.1	5.1	ug/Kg
CG47114	\$8270SMRDP	N-Nitrosodimethylamine	PA / Reg Fill Limits GP-1a / Organics	ND	78	0.17	0.17	ug/Kg
CG47114	\$8270SMRDP	N-Nitrosodi-n-propylamine	PA / Reg Fill Limits GP-1a / Organics	ND	78	5.1	5.1	ug/Kg
CG47114	\$8270SMRDP	Bis(2-chloroethyl)ether	PA / Reg Fill Limits GP-1a / Organics	ND	78	17	17	ug/Kg
CG47114	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	34.5	0.38	30		mg/Kg
CG47114	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	175	0.8	63	63	mg/Kg
CG47115	\$8270SMRDP	Benzo(a)pyrene	NJ / Soil Remediation Standard / Res. Direct Contact	790	190	500	200	ug/Kg
CG47115	\$8270SMRDP	Bis(2-chloroethyl)ether	PA / Reg Fill Limits GP-1a / Organics	ND	75	17	17	ug/Kg
CG47115	\$8270SMRDP	N-Nitrosodimethylamine	PA / Reg Fill Limits GP-1a / Organics	ND	75	0.17	0.17	ug/Kg
CG47115	\$8270SMRDP	N-Nitrosodi-n-propylamine	PA / Reg Fill Limits GP-1a / Organics	ND	75	5.1	5.1	ug/Kg
CG47115	\$DPSVAADDT	Benzo(a)pyrene	NJ / Soil Remediation Standard / Res. Direct Contact	790	260	500	200	ug/Kg
CG47115	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	150	0.7	63	63	mg/Kg
CG47116	\$8270SMRDP	N-Nitrosodimethylamine	PA / Reg Fill Limits GP-1a / Organics	ND	77	0.17	0.17	ug/Kg
CG47116	\$8270SMRDP	N-Nitrosodi-n-propylamine	PA / Reg Fill Limits GP-1a / Organics	ND	77	5.1	5.1	ug/Kg
CG47116	\$8270SMRDP	Bis(2-chloroethyl)ether	PA / Reg Fill Limits GP-1a / Organics	ND	77	17	17	ug/Kg
CG47116	HG-SM	Mercury	NY / 375-6.8 Metals / Ground Water Protection	0.84	0.07	0.73	0.73	mg/Kg
CG47116	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	0.84	0.07	0.81	0.81	mg/Kg
CG47116	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.84	0.07	0.18	0.18	mg/Kg
CG47116	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	92.7	0.7	63	63	mg/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Comments

August 07, 2020

SDG I.D.: GCG47111

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

PEST Narration

AU-ECD35 08/05/20-1: CG47112, CG47113

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CG47112, CG47113

Preceding CC 805A041 - b-BHC 28%L (20%)

Succeeding CC 805A051 - b-BHC 26%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

AU-ECD4 08/05/20-1: CG47114

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CG47114

Preceding CC 805A032 - g-BHC 25%H (20%)

Succeeding CC 805A045 - g-BHC 23%H (20%)

SVOA Narration

CHEM36 08/04/20-1: CG47111, CG47112

The following Initial Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.060 (0.1), Hexachlorobenzene 0.084 (0.1)

The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.062 (0.1), Hexachlorobenzene 0.082 (0.1)

The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

CHEM69 08/04/20-1: CG47116

The following Initial Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.065 (0.1), Hexachlorobenzene 0.097 (0.1)

The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.079 (0.1)

The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

VOA Narration

CHEM31 08/05/20-2: CG47111, CG47112, CG47113, CG47114, CG47115, CG47116, CG47117, CG47118



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Comments

August 07, 2020

SDG I.D.: GCG47111

The following Initial Calibration compounds did not meet RSD% criteria: Methylene chloride 25% (20%)

The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

The following Initial Calibration compounds did not meet recommended response factors: Acetone 0.075 (0.1), Tetrachloroethene 0.172 (0.2)

The following Initial Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.



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NY Temperature Narration

August 07, 2020

SDG I.D.: GCG47111

The samples in this delivery group were received at 1.0°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

