



Sent via email to jess.laclair@dec.ny.gov

May 17, 2019
iPARK0118.25

Jessica LaClair
Environmental Engineer
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7013

Re: iPark 84
Former IBM East Fishkill Facility
Sign Installation Project
Soil Sampling Summary

Dear Ms. LaClair:

Walden Environmental Engineering, PLLC (Walden) has prepared this letter to summarize the results of the soil sampling performed during sign installation at the above referenced facility completed in March – April 2019. National Resources, the owner of iPark 84, installed new pylon signs with footings approximately 2 ft diameter x 6 ft deep at Gates 1 and 5. In addition, 17 new sign posts with footings approximately 6-inch diameter x 2 ft deep were installed at various locations around the Site.

Excess soil from installation of the sign footings was placed in drums, covered and securely stored on-site. A total of 8 drums of excess soil are currently staged at Building 720 (formerly Building 335). Walden collected three (3) samples of the excess soil; the first and second samples (collected on March 28th) were soils from installation of each pylon sign, and the third sample (collected on April 23rd) was excess soil from installation of the other 17 signs.

The soil samples were submitted for laboratory analysis of NYCRR Part 375-6.8 Metals via EPA Method 6010, Volatile Organic Compounds (VOCs) via EPA Method 8260, Semi-Volatile Organic Compounds (SVOCs) via EPA Method 8270, Polychlorinated Biphenyls (PCBs) via EPA Method SW8082A, Pesticides via EPA Method SW8081B, and Herbicides via EPA Method SW8151A. The laboratory analytical results are summarized and compared to the

Ms. Jessica LaClair
Sign Installation Soil Sampling Results
May 17, 2019

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NYCRR Part 375 Industrial Use Soil Cleanup Objectives (SCOs) and the Unrestricted Use SCOs in the attached Tables 1 through 6. The laboratory reports are presented in Attachment 1.

None of the soil sampling results exceeded the applicable Industrial Use or Unrestricted Use SCOs with respect to Metals, VOCs, SVOCs, PCBs, or Herbicides. None of the Pesticide concentrations exceeded Industrial Use SCOs. Although the reported concentrations of 4-4'-DDE (11.1 to 30 ug/kg) and 4-4'-DDT (non-detect to 11.3 ug/kg) exceeded the respective Unrestricted Use SCOs, the Commercial Use SCOs (62 ug/kg 4-4'-DDE and 47 ug/kg 4-4'-DDT) were met.

Based on these results, please confirm that the excess soils from the sign installation work are suitable for future on-site use.

Please call me at (516) 624-7200 if you have any questions or need any additional information.

Very truly yours,

Walden Environmental Engineering, PLLC

Nora M. Brew, P.E.
Senior Project Manager

cc: J. Kenney, NYSDOH
C. Monheit, National Resources
M. Buckley, National Resources
D. Chartrand, IBM

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5.17.2019.docx

TABLES 1 THROUGH 6
ANALYTICAL RESULTS

iPARK 84 Campus
2070 NY-Route 52
Hopewell Junction, New York

TABLE 1
SUMMARY OF EXCAVATED SOIL ANALYSIS FOR SIGN INSTALLATION
METALS ONLY

				Collection Date	3/28/2019		3/28/2019		4/23/2019	
				Sample ID	Gate 1 Pylon 03282019 Composite		Gate 5 Pylon 03282019 Composite		BLDG 720 DRUMS COMP	
				Matrix	Soil		Soil		Soil	
				NYCRR Part 375 SCOs						
	CAS	Units	Industrial Use Soil Cleanup Objective	Unrestricted Use Soil Cleanup Objective	Result	Qualifier	Result	Qualifier	Result	Qualifier
Metals, Total										
Arsenic	7440-38-2	mg/Kg	16	13	4.99		5.07		6.81	
Barium	7440-39-3	mg/Kg	10,000	350	63.7		51.7		57.4	
Beryllium	7440-41-7	mg/Kg	2,700	7.2	<3.56	U	<3.75	U	0.53	
Cadmium	7440-43-9	mg/Kg	60	2.5	<3.56	U	<3.75	U	0.73	
Chromium	7440-47-3	mg/Kg		30	15.7		13.5		16.5	
Copper	7440-50-8	mg/kg	10,000	50	23.6		25.3		28.2	
Lead	7439-92-1	mg/Kg	3,900	63	27.4		14.3		22.9	
Manganese	7439-96-5	mg/Kg	10,000	1,600	1,040		639		1,240	
Mercury	7439-97-6	mg/Kg	5.7	0.18	<.02	U	<.02	U	0.04	
Nickel	7440-02-0	mg/Kg	10,000	30	18.1		19.3		25	
Selenium	7782-49-2	mg/Kg	6,800	3.9	<3.56	U	<3.75	U	< 1.4	U
Silver	7440-22-4	mg/Kg	6,800	2	<0.89	U	<0.94	U	< 0.36	U
Trivalent Chromium	16065-83-1	mg/kg	6,800	30	n/a		n/a		16.5	
Zinc	7440-66-6	mg/Kg	10,000	109	67.4		62.6		76.7	

Qualifiers

U - The compound was analyzed for but not detected at or above the MDL. The number immediately preceding the "U" represents the PQL reporting level corrected for percent solids, weight and/or volume calculations, and dilution factors.

iPARK 84 Campus
2070 NY-Route 52
Hopewell Junction, New York

TABLE 2
SUMMARY OF EXCAVATED SOIL ANALYSIS FOR SIGN INSTALLATION
VOCs ONLY

				Collection Date	3/28/2019		3/28/2019		4/23/2019	
				Sample ID	Gate 1 Pylon 03282019 Grab		Gate 5 Pylon 03282019 Grab		BLDG 720 DRUMS GRAB	
				Matrix	Soil		Soil		Soil	
				NYCRR Part 375 SCOs						
	CAS	Units	Industrial Use Soil Cleanup Objective	Unrestricted Use Soil Cleanup Objective	Result	Qualifier	Result	Qualifier	Result	Qualifier
Volatiles By SW8260C										
1,1,1,2-Tetrachloroethane	630-20-6	ug/Kg							< 5.1	U
1,1,1-Trichloroethane	71-55-6	ug/Kg	1,000,000	680	<5.34	U	<5.82	U	< 5.1	U
1,1,2,2-Tetrachloroethane	79-34-5	ug/Kg							< 5.1	U
1,1,2-Trichloroethane	79-00-5	ug/Kg							< 5.1	U
1,1-Dichloroethane	75-34-3	ug/Kg	480,000	270	<5.34	U	<5.82	U	< 5.1	U
1,1-Dichloroethene	75-35-4	ug/Kg	1,000,000	330	<5.34	U	<5.82	U	< 5.1	U
1,1-Dichloropropene	563-58-6	ug/Kg							< 5.1	U
1,2,3-Trichlorobenzene	87-61-6	ug/Kg							< 5.1	U
1,2,3-Trichloropropane	96-18-4	ug/Kg							< 5.1	U
1,2,4-Trichlorobenzene	120-82-1	ug/Kg							< 5.1	U
1,2,4-Trimethylbenzene	95-63-6	ug/Kg	380,000	3,600	<5.34	U	<5.82	U	< 5.1	U
1,2-Dibromo-3-chloropropane	96-12-8	ug/Kg							< 5.1	U
1,2-Dibromoethane	106-93-4	ug/Kg							< 5.1	U
1,2-Dichlorobenzene	95-50-1	ug/Kg	1,000,000	1,100	<5.34	U	<5.82	U	< 5.1	U
1,2-Dichloroethane	107-06-2	ug/Kg	60,000	20	<5.34	U	<5.82	U	< 5.1	U
1,2-Dichloropropane	78-87-5	ug/Kg							< 5.1	U
1,3,5-Trimethylbenzene	108-67-8	ug/Kg	380,000	8,400	<5.34	U	<5.82	U	< 5.1	U
1,3-Dichlorobenzene	541-73-1	ug/Kg	560,000	2,400	<5.34	U	<5.82	U	< 5.1	U
1,3-Dichloropropane	142-28-9	ug/Kg							< 5.1	U
1,4-Dichlorobenzene	106-46-7	ug/Kg	250,000	1,800	<5.34	U	<5.82	U	< 5.1	U
1,4-Dioxane	123-91-1	ug/Kg	250,000	100	<26.7	U	<29.1		<76	U
2,2-Dichloropropane	594-20-7	ug/Kg							< 5.1	U
2-Chlorotoluene	95-49-8	ug/Kg							< 5.1	U
2-Hexanone	591-78-6	ug/Kg							< 25	U
2-Isopropyltoluene	527-84-4	ug/Kg							< 5.1	U
4-Chlorotoluene	106-43-4	ug/Kg							< 5.1	U
4-Methyl-2-pentanone	108-10-1	ug/Kg							< 25	U
Acetone	67-64-1	ug/Kg	1,000,000	50	<21.4	U	<23.3	U	< 25	U

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				Sample ID	Gate 1 Pylon 03282019 Grab		Gate 5 Pylon 03282019 Grab		BLDG 720 DRUMS GRAB	
				Matrix	Soil		Soil		Soil	
				NYCRR Part 375 SCOs						
	CAS	Units	Industrial Use Soil Cleanup Objective	Unrestricted Use Soil Cleanup Objective	Result	Qualifier	Result	Qualifier	Result	Qualifier
Acrylonitrile	107-13-1	ug/Kg							< 10	U
Benzene	71-43-2	ug/Kg	89,000	60	<5.34	U	<5.82	U	< 5.1	U
Bromobenzene	108-86-1	ug/Kg							< 5.1	U
Bromochloromethane	74-97-5	ug/Kg							< 5.1	U
Bromodichloromethane	75-27-4	ug/Kg							< 5.1	U
Bromoform	75-25-2	ug/Kg							< 5.1	U
Bromomethane	74-83-9	ug/Kg							< 5.1	U
Carbon Disulfide	75-15-0	ug/Kg							< 5.1	U
Carbon tetrachloride	56-23-5	ug/Kg	44,000	760	<5.34	U	<5.82	U	< 5.1	U
Chlorobenzene	108-90-7	ug/Kg	1,000,000	1,100	<5.34	U	<5.82	U	< 5.1	U
Chloroethane	75-00-3	ug/Kg							< 5.1	U
Chloroform	67-66-3	ug/Kg	700,000	370	<5.34	U	<5.82	U	< 5.1	U
Chloromethane	74-87-3	ug/Kg							< 5.1	U
cis-1,2-Dichloroethene	156-59-2	ug/Kg	1,000,000	250	<5.34	U	<5.82	U	< 5.1	U
cis-1,3-Dichloropropene	10061-01-5	ug/Kg							< 5.1	U
Dibromochloromethane	124-48-1	ug/Kg							< 5.1	U
Dibromomethane	74-95-3	ug/Kg							< 5.1	U
Dichlorodifluoromethane	75-71-8	ug/Kg							< 5.1	U
Ethylbenzene	100-41-4	ug/Kg	780,000	1,000	<5.34	U	<5.82	U	< 5.1	U
Hexachlorobutadiene	87-68-3	ug/Kg							< 5.1	U
Isopropylbenzene	98-82-8	ug/Kg							< 5.1	U
m&p-Xylene	179601-23-1	ug/Kg			<10.7	U	<11.6	U	< 5.1	U
Methyl Ethyl Ketone	78-93-3	ug/Kg	1,000,000	120	<10.7	U	<11.6	U	< 25	U
Methyl t-butyl ether (MTBE)	1634-04-4	ug/Kg	1,000,000	930	<5.34	U	<5.82	U	< 10	U
Methylene chloride	75-09-2	ug/Kg	1,000,000	50	<5.34	U	<5.82	U	< 10	U
Naphthalene	91-20-3	ug/Kg	1,000,000	12,000					< 5.1	U
n-Butylbenzene	104-51-8	ug/Kg	1,000,000	12,000	<5.34	U	<5.82	U	< 5.1	U
n-Propylbenzene	103-65-1	ug/Kg	1,000,000	3,900	<5.34	U	<5.82	U	< 5.1	U
o-Xylene	95-47-6	ug/Kg			<5.34	U	<5.82	U	< 5.1	U

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				Sample ID	Gate 1 Pylon 03282019 Grab		Gate 5 Pylon 03282019 Grab		BLDG 720 DRUMS GRAB	
				Matrix	Soil		Soil		Soil	
				NYCRR Part 375 SCOs						
	CAS	Units	Industrial Use Soil Cleanup Objective	Unrestricted Use Soil Cleanup Objective	Result	Qualifier	Result	Qualifier	Result	Qualifier
p-Isopropyltoluene	99-87-6	ug/Kg							< 5.1	U
sec-Butylbenzene	135-98-8	ug/Kg	1,000,000	11,000	<5.34	U	<5.82	U	< 5.1	U
Styrene	100-42-5	ug/Kg							< 5.1	U
tert-Butylbenzene	98-06-6	ug/Kg	1,000,000	5,900	<5.34	U	<5.82	U	< 5.1	U
Tetrachloroethene	127-18-4	ug/Kg	300,000	1,300	<5.34	U	<5.82	U	< 5.1	U
Tetrahydrofuran (THF)	109-99-9	ug/Kg							< 10	U
Toluene	108-88-3	ug/Kg	1,000,000	700	<5.34	U	<5.82	U	< 5.1	U
Total Xylenes	1330-20-7	ug/Kg	1,000,000	260	<10.7	U	<11.6	U	< 5.1	U
trans-1,2-Dichloroethene	156-60-5	ug/Kg	1,000,000	190	<5.34	U	<5.82	U	< 5.1	U
trans-1,3-Dichloropropene	10061-02-6	ug/Kg							< 5.1	U
trans-1,4-dichloro-2-butene	110-57-6	ug/Kg							< 10	U
Trichloroethene	79-01-6	ug/Kg	400,000	470	<5.34	U	<5.82	U	< 5.1	U
Trichlorofluoromethane	75-69-4	ug/Kg							< 5.1	U
Trichlorotrifluoroethane	76-13-1	ug/Kg							< 5.1	U
Vinyl chloride	75-01-4	ug/Kg	27,000	20	<5.34	U	<5.34	U	< 5.1	U

Qualifiers
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TABLE 3
SUMMARY OF EXCAVATED SOIL ANALYSIS FOR SIGN INSTALLATION
SVOCs ONLY

				Collection Date	3/28/2019		3/28/2019		4/23/2019	
				Sample ID	Gate 1 Pylon 03282019 Composite		Gate 5 Pylon 03282019 Composite		BLDG 720 DRUMS COMP	
				Matrix	Soil		Soil		Soil	
				NYCRR Part 375 SCOs						
	CAS	Units	Industrial Use Soil Cleanup Objective	Unrestricted Use Soil Cleanup Objective	Result	Qualifier	Result	Qualifier	Result	Qualifier
Semivolatiles By SW8270D										
1,2,4,5-Tetrachlorobenzene	95-94-3	ug/Kg							< 250	U
1,2,4-Trichlorobenzene	120-82-1	ug/Kg							< 250	U
1,2-Dichlorobenzene	95-50-1	ug/Kg	1,000,000	1,100					< 250	U
1,2-Diphenylhydrazine	122-66-7	ug/Kg							< 360	U
1,3-Dichlorobenzene	541-73-1	ug/Kg	560,000	2,400					< 250	U
1,4-Dichlorobenzene	106-46-7	ug/Kg	250,000	1,800					< 250	U
2,4,5-Trichlorophenol	95-95-4	ug/Kg							< 250	U
2,4,6-Trichlorophenol	88-06-2	ug/Kg							< 250	U
2,4-Dichlorophenol	120-83-2	ug/Kg							< 250	U
2,4-Dimethylphenol	105-67-9	ug/Kg							< 250	U
2,4-Dinitrophenol	51-28-5	ug/Kg							< 360	U
2,4-Dinitrotoluene	121-14-2	ug/Kg							< 250	U
2,6-Dinitrotoluene	606-20-2	ug/Kg							< 250	U
2-Chloronaphthalene	91-58-7	ug/Kg							< 250	U
2-Chlorophenol	95-57-8	ug/Kg							< 250	U
2-Methylnaphthalene	91-57-6	ug/Kg							< 250	U
2-Methylphenol (o-cresol)	95-48-7	ug/Kg	1,000,000	330	<334	U	<350	U	< 250	U
2-Nitroaniline	88-74-4	ug/Kg							< 360	U
2-Nitrophenol	88-75-5	ug/Kg							< 250	U
3&4-Methylphenol (m&p-cresol)	n/a	ug/Kg			<167	U	<175	U	< 360	U
3,3'-Dichlorobenzidine	91-94-1	ug/Kg							< 250	U
3-Nitroaniline	99-09-2	ug/Kg							< 360	U
4,6-Dinitro-2-methylphenol	534-52-1	ug/Kg							< 360	U
4-Bromophenyl phenyl ether	101-55-3	ug/Kg							< 360	U
4-Chloro-3-methylphenol	59-50-7	ug/Kg							< 250	U
4-Chloroaniline	106-47-8	ug/Kg							< 250	U
4-Chlorophenyl phenyl ether	7005-72-3	ug/Kg							< 250	U
4-Nitroaniline	100-01-6	ug/Kg							< 580	U
4-Nitrophenol	100-02-7	ug/Kg							< 250	U
Acenaphthene	83-32-9	ug/Kg	1,000,000	20,000	<167	U	<175	U	< 250	U
Acenaphthylene	208-96-8	ug/Kg	1,000,000	100,000	<167	U	<175	U	< 250	U

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				Sample ID	Gate 1 Pylon 03282019 Composite		Gate 5 Pylon 03282019 Composite		BLDG 720 DRUMS COMP	
				Matrix	Soil		Soil		Soil	
				NYCRR Part 375 SCOs						
	CAS	Units	Industrial Use Soil Cleanup Objective	Unrestricted Use Soil Cleanup Objective	Result	Qualifier	Result	Qualifier	Result	Qualifier
Acetophenone	98-86-2	ug/Kg							< 250	U
Aniline	62-53-3	ug/Kg							< 360	U
Anthracene	120-12-7	ug/Kg	1,000,000	100,000	<167	U	<175	U	< 250	U
Benz(a)anthracene	56-55-3	ug/Kg	11,000	1,000	<167	U	<175	U	450	
Benzidine	92-87-5	ug/Kg							< 250	U
Benzo(a)pyrene	50-32-8	ug/Kg	1,100	1,000	<167	U	<175	U	480	
Benzo(b)fluoranthene	205-99-2	ug/Kg	11,000	1,000	<334	U	<350	U	430	
Benzo(ghi)perylene	191-24-2	ug/Kg	1,000,000	100,000	<167	U	<175	U	270	
Benzo(k)fluoranthene	207-08-9	ug/Kg	110,000	800	<167	U	<175	U	450	
Benzoic acid	65-85-0	ug/Kg							< 720	U
Benzyl butyl phthalate	85-68-7	ug/Kg							< 250	U
Bis(2-chloroethoxy)methane	111-91-1	ug/Kg							< 250	U
Bis(2-chloroethyl)ether	111-44-4	ug/Kg							< 360	U
Bis(2-chloroisopropyl)ether	39638-32-9	ug/Kg							< 250	U
Bis(2-ethylhexyl)phthalate	117-81-7	ug/Kg							< 250	U
Carbazole	86-74-8	ug/Kg							< 360	U
Chrysene	218-01-9	ug/Kg	110,000	1,000	<167	U	<175	U	470	
Dibenz(a,h)anthracene	53-70-3	ug/Kg	1,100	330	<167	U	<175	U	< 250	U
Dibenzofuran	132-64-9	ug/Kg	1,000,000	7,000	<167	U	<175	U	< 250	U
Diethyl phthalate	84-66-2	ug/Kg							< 250	U
Dimethylphthalate	131-11-3	ug/Kg							< 250	U
Di-n-butylphthalate	84-74-2	ug/Kg							< 360	U
Di-n-octylphthalate	117-84-0	ug/Kg							< 250	U
Fluoranthene	206-44-0	ug/Kg	1,000,000	100,000	<167	U	<175	U	1000	
Fluorene	86-73-7	ug/Kg	1,000,000	30,000	<167	U	<175	U	< 250	U
Hexachlorobenzene	118-74-1	ug/Kg	12,000	330	<167	U	<175	U	< 250	U
Hexachlorobutadiene	87-68-3	ug/Kg							< 250	U
Hexachlorocyclopentadiene	77-47-4	ug/Kg							< 250	U
Hexachloroethane	67-72-1	ug/Kg							< 250	U
Indeno(1,2,3-cd)pyrene	193-39-5	ug/Kg	11,000	500	<167	U	<175	U	300	
Isophorone	78-59-1	ug/Kg							< 250	U
Naphthalene	91-20-3	ug/Kg	1,000,000	12,000	<167	U	<175	U	< 250	U

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TABLE 3
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SVOCs ONLY

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				Sample ID	Gate 1 Pylon 03282019 Composite		Gate 5 Pylon 03282019 Composite		BLDG 720 DRUMS COMP	
				Matrix	Soil		Soil		Soil	
				NYCRR Part 375 SCOs						
	CAS	Units	Industrial Use Soil Cleanup Objective	Unrestricted Use Soil Cleanup Objective	Result	Qualifier	Result	Qualifier	Result	Qualifier
Nitrobenzene	98-95-3	ug/Kg							< 250	U
N-Nitrosodimethylamine	62-75-9	ug/Kg							< 360	U
N-Nitrosodi-n-propylamine	621-64-7	ug/Kg							< 250	U
N-Nitrosodiphenylamine	86-30-6	ug/Kg							< 360	U
Pentachloronitrobenzene	82-68-8	ug/Kg							< 360	U
Pentachlorophenol	87-86-5	ug/Kg	55,000	800	<167	U	<175	U	< 360	U
Phenanthrene	85-01-8	ug/Kg	1,000,000	100,000	<167	U	<175	U	530	
Phenol	108-95-2	ug/Kg	1,000,000	330	<167	U	<175	U	< 250	U
Pyrene	129-00-0	ug/Kg	1,000,000	100,000	201		<175	U	860	
Pyridine	110-86-1	ug/Kg							< 360	U

Qualifiers

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TABLE 4
SUMMARY OF EXCAVATED SOIL ANALYSIS FOR SIGN INSTALLATION
PCBs ONLY

					Collection Date		3/28/2019		3/28/2019		4/23/2019	
					Sample ID		Gate 1 Pylon 03282019 Composite		Gate 5 Pylon 03282019 Composite		BLDG 720 DRUMS COMP	
					Matrix		Soil		Soil		Soil	
					NYCRR Part 375 SCOs							
					Unrestricted Use Soil Cleanup Objective							
					Industrial Use Soil Cleanup Objective	Result	Qualifier	Result	Qualifier	Result	Qualifier	
CAS					Units							
PCBs By SW8082A												
PCB-1016					12674-11-2	ug/Kg	25,000	100	<22.2	U	<11.7	U
PCB-1221					11104-28-2	ug/Kg	25,000	100	<22.2	U	<11.7	U
PCB-1232					11141-16-5	ug/Kg	25,000	100	<22.2	U	<11.7	U
PCB-1242					53469-21-9	ug/Kg	25,000	100	<22.2	U	<11.7	U
PCB-1248					12672-29-6	ug/Kg	25,000	100	<22.2	U	<11.7	U
PCB-1254					11097-69-1	ug/Kg	25,000	100	<22.2	U	<11.7	U
PCB-1260					11096-82-5	ug/Kg	25,000	100	<22.2	U	<11.7	U
PCB-1262					37324-23-5	ug/Kg		100	<22.2	U	<11.7	U
PCB-1268					11100-14-4	ug/Kg		100	<22.2	U	<11.7	U

Qualifiers

U - The compound was analyzed for but not detected at or above the MDL. The number immediately preceding the "U" represents the PQL reporting level corrected for percent solids, weight and/or volume calculations, and dilution factors.

iPARK 84 Campus
2070 NY-Route 52
Hopewell Junction, New York

TABLE 5
SUMMARY OF EXCAVATED SOIL ANALYSIS FOR SIGN INSTALLATION
PESTICIDES ONLY

				Collection Date	3/28/2019		3/28/2019		4/23/2019	
				Sample ID	Gate 1 Pylon 03282019 Composite		Gate 5 Pylon 03282019 Composite		BLDG 720 DRUMS COMP	
				Matrix	Soil		Soil		Soil	
				NYCRR Part 375 SCOs						
	CAS	Units	Industrial Use Soil Cleanup Objective	Unrestricted Use Soil Cleanup Objective	Result	Qualifier	Result	Qualifier	Result	Qualifier
Pesticides - Soil By SW8081B										
4,4' -DDD	72-54-8	ug/Kg	180,000	3.3	<4.45	U	<2.33	U	< 3.0	U
4,4' -DDE	72-55-9	ug/Kg	120,000	3.3	30		11.1		21	
4,4' -DDT	50-29-3	ug/Kg	94,000	3.3	11.3		<2.33	U	4.7	
a-BHC	319-84-6	ug/Kg	6,800	20	<11.1	U	<5.83	U	< 7.3	U
a-Chlordane	5103-71-9	ug/Kg	47,000	94					< 3.7	U
Aldrin	309-00-2	ug/Kg	1,400	5	<4.45	U	<2.33	U	< 3.7	U
b-BHC	319-85-7	ug/Kg	14,000	36	<11.1	U	<5.83	U	< 7.3	U
Chlordane	57-74-9	ug/Kg		94	<11.1	U	<5.83	U	< 37	U
d-BHC	319-86-8	ug/Kg	1,000,000	40	<11.1	U	<5.83	U	< 7.3	U
Dieldrin	60-57-1	ug/Kg	2,800	5	<4.45	U	<2.33	U	< 3.7	U
Endosulfan I	959-98-8	ug/Kg	920,000	2400	<11.1	U	<5.83	U	< 7.3	U
Endosulfan II	33213-65-9	ug/Kg	920,000	2400	<11.1	U	<5.83	U	< 7.3	U
Endosulfan sulfate	1031-07-8	ug/Kg	920,000	2400	<11.1	U	<5.83	U	< 7.3	U
Endrin	72-20-8	ug/Kg	410,000	14	<11.1	U	<5.83	U	< 7.3	U
Endrin aldehyde	7421-93-4	ug/Kg							< 7.3	U
Endrin ketone	53494-70-5	ug/Kg							< 7.3	U
g-BHC	58-89-9	ug/Kg	23,000		<11.1	U	<5.83	U	< 1.5	U
g-Chlordane	5103-74-2	ug/Kg							< 3.7	U
Heptachlor	76-44-8	ug/Kg	29,000	42	<11.1	U	<5.83	U	< 7.3	U
Heptachlor epoxide	1024-57-3	ug/Kg							< 7.3	U
Methoxychlor	72-43-5	ug/Kg							< 37	U
Toxaphene	8001-35-2	ug/Kg							< 150	U

Qualifiers

U - The compound was analyzed for but not detected at or above the MDL. The number immediately preceding the "U" represents the PQL reporting level corrected for percent solids, weight and/or volume calculations, and dilution factors.

iPARK 84 Campus
2070 NY-Route 52
Hopewell Junction, New York

TABLE 6
SUMMARY OF EXCAVATED SOIL ANALYSIS FOR SIGN INSTALLATION
HERBICIDES ONLY

					Collection Date		3/28/2019		3/28/2019		4/23/2019	
					Sample ID		Gate 1 Pylon 03282019 Composite		Gate 5 Pylon 03282019 Composite		BLDG 720 DRUMS COMP	
					Matrix		Soil		Soil		Soil	
			NYCRR Part 375 SCOs									
	CAS	Units	Industrial Use Soil Cleanup Objective	Unrestricted Use Soil Cleanup Objective	Result	Qualifier	Result	Qualifier	Result	Qualifier		
Chlorinated Herbicides By SW8151A												
2,4,5-T	93-76-5	ug/Kg							< 92	U		
2,4,5-TP (Silvex)	93-72-1	ug/Kg	1,000,000	3,800	<28	U	<29	U	< 92	U		
2,4-D	94-75-7	ug/Kg							< 180	U		
2,4-DB	94-82-6	ug/Kg							< 1800	U		
Dalapon	75-99-0	ug/Kg							< 92	U		
Dicamba	1918-00-9	ug/Kg							< 92	U		
Dichloroprop	120-36-5	ug/Kg							< 180	U		
Dinoseb	88-85-7	ug/Kg							< 180	U		

Qualifiers

U - The compound was analyzed for but not detected at or above the MDL. The number immediately preceding the "U" represents the PQL reporting level corrected for percent solids, weight and/or volume calculations, and dilution factors.

ATTACHMENT 1
LABORATORY REPORTS

**LONG
ISLAND
ANALYTICAL
LABORATORIES INC.****"TOMORROWS ANALYTICAL SOLUTIONS TODAY"**Laboratory ReportNYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

LIAL# 9040329

April 25, 2019

Walden Associates
Larry Lepere
16 Spring Street
Oyster Bay, NY 11771**Re: PARK 0118.25 200 North Dr Hopewell Junct NY**

Dear Larry Lepere,

Enclosed please find the laboratory Analysis Report(s) for sample(s) received on April 03, 2019. Long Island Analytical laboratories analyzed the samples on April 24, 2019 for the following:

SAMPLE ID	ANALYSIS
Gate 1 Pylon 03282019 Composite	NYC Part 375 Less Volatiles
Gate 5 Pylon 03282019 Composite	NYC Part 375 Less Volatiles
Gate 1 Pylon 03282019 Grab	NYC Part 375 (Volatile)
Gate 5 Pylon 03282019 Grab	NYC Part 375 (Volatile)

Samples received at 3.7 °C

1.B Holding time exceeded, results cannot be used for regulatory purposes.

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories Inc. is a NELAP accredited laboratory. All reported results meet the requirements of the NELAP standards unless noted. Report shall not be reproduced except in full without the written approval of the laboratory. Results related only to items tested. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.**Michael Veraldi - Laboratory Director**

Client: Walden Associates	Client ID: PARK 0118.25 200 North Dr Hopewell Junct NY
Date (Time) Collected: 03/28/2019 14:30	Sample ID: Gate 1 Pylon 03282019 Composite
Date (Time) Received: 04/03/2019 15:23	Laboratory ID: 9040329-01 % Solid:89.94
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
2-Methylphenol	95-48-7	334	<334	ug/kg dry	
3/4-Methylphenol	108-39-4/106-44-5	167	<167	ug/kg dry	
Acenaphthene	83-32-9	167	<167	ug/kg dry	
Acenaphthylene	208-96-8	167	<167	ug/kg dry	
Anthracene	120-12-7	167	<167	ug/kg dry	
Benzo(a)anthracene	56-55-3	167	<167	ug/kg dry	
Benzo(a)pyrene	50-32-8	167	<167	ug/kg dry	
Benzo(b)fluoranthene	205-99-2	334	<334	ug/kg dry	
Benzo(g,h,i)perylene	191-24-2	167	<167	ug/kg dry	
Benzo(k)fluoranthene	207-08-9	167	<167	ug/kg dry	
Chrysene	218-01-9	167	<167	ug/kg dry	
Dibenzo(a,h)anthracene	53-70-3	167	<167	ug/kg dry	
Dibenzofuran	132-64-9	167	<167	ug/kg dry	
Fluoranthene	206-44-0	167	<167	ug/kg dry	
Fluorene	86-73-7	167	<167	ug/kg dry	
Hexachlorobenzene	118-74-1	167	<167	ug/kg dry	
Indeno(1,2,3-cd)pyrene	193-39-5	167	<167	ug/kg dry	
Naphthalene	91-20-3	167	<167	ug/kg dry	
Pentachlorophenol	87-86-5	167	<167	ug/kg dry	
Phenanthrene	85-01-8	167	<167	ug/kg dry	
Phenol	108-95-2	167	<167	ug/kg dry	
Pyrene	129-00-0	167	201	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4,6-Tribromophenol	118-79-6	63	30.8-109	
2-Fluorobiphenyl	321-60-8	57	32.6-96.2	
2-Fluorophenol	367-12-4	61	32.8-95.8	
Nitrobenzene-d5	4165-60-0	56	28.1-100	
Phenol-d6	13127-88-3	63	31.2-102	
Terphenyl-d14	1718-51-0	62	32.6-110	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1		50-200	

Client: Walden Associates	Client ID: PARK 0118.25 200 North Dr Hopewell Junct NY
Date (Time) Collected: 03/28/2019 14:30	Sample ID: Gate 1 Pylon 03282019 Composite
Date (Time) Received: 04/03/2019 15:23	Laboratory ID: 9040329-01 % Solid:89.94
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
Acenaphthene-d10	15067-26-2		50-200	
Chrysene-d12	1719-03-5		50-200	
Naphthalene-d8	1146-65-2		50-200	
Perylene-d12	1520-96-3		50-200	
Phenanthrene-d10	1517-22-2		50-200	

Date Prepared: 04/09/2019

Preparation Method: EPA 3545 A

Date Analyzed: 04/10/2019

Analytical Method: EPA 8270 D

Client: Walden Associates	Client ID: PARK 0118.25 200 North Dr Hopewell Junct NY
Date (Time) Collected: 03/28/2019 14:30	Sample ID: Gate 1 Pylon 03282019 Composite
Date (Time) Received: 04/03/2019 15:23	Laboratory ID: 9040329-01 % Solid:89.94
Matrix: Soil	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
4,4'-DDD	72-54-8	4.45	<4.45	ug/kg dry	3.A
4,4'-DDE	72-55-9	4.45	30.0	ug/kg dry	3.E
4,4'-DDT	50-29-3	4.45	11.3	ug/kg dry	3.E
Aldrin	309-00-2	4.45	<4.45	ug/kg dry	3.A
alpha-BHC	319-84-6	11.1	<11.1	ug/kg dry	3.A
beta-BHC	319-85-7	11.1	<11.1	ug/kg dry	4.M, 3.A
cis-Chlordane	5103-71-9	11.1	<11.1	ug/kg dry	3.A
delta-BHC	319-86-8	11.1	<11.1	ug/kg dry	3.A
Dieldrin	60-57-1	4.45	<4.45	ug/kg dry	3.A
Endosulfan I	959-98-8	11.1	<11.1	ug/kg dry	3.A
Endosulfan II	33213-65-9	11.1	<11.1	ug/kg dry	3.A
Endosulfan Sulfate	1031-07-8	11.1	<11.1	ug/kg dry	3.A
Endrin	72-20-8	11.1	<11.1	ug/kg dry	3.A
gamma-BHC	58-89-9	11.1	<11.1	ug/kg dry	3.A
Heptachlor	76-44-8	11.1	<11.1	ug/kg dry	3.A

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	105	50.4-127	3.E
Tetrachloro-m-xylene	877-09-8	100	57.5-127	3.E

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6		50-200	

Date Prepared: 04/05/2019

Preparation Method: EPA 3545 A

Date Analyzed: 04/05/2019

Analytical Method: EPA 8081 B

Client: Walden Associates	Client ID: PARK 0118.25 200 North Dr Hopewell Junct NY
Date (Time) Collected: 03/28/2019 14:30	Sample ID: Gate 1 Pylon 03282019 Composite
Date (Time) Received: 04/03/2019 15:23	Laboratory ID: 9040329-01 % Solid:89.94
Matrix: Soil	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
Aroclor-1016	12674-11-2	22.2	<22.2	ug/kg dry	3.A
Aroclor-1221	11104-28-2	22.2	<22.2	ug/kg dry	3.A
Aroclor-1232	11141-16-5	22.2	<22.2	ug/kg dry	3.A
Aroclor-1242	53469-21-9	22.2	<22.2	ug/kg dry	3.A
Aroclor-1248	12672-29-6	22.2	<22.2	ug/kg dry	3.A
Aroclor-1254	11097-69-1	22.2	<22.2	ug/kg dry	3.A
Aroclor-1260	11096-82-5	22.2	<22.2	ug/kg dry	3.A
Aroclor-1262	37324-23-5	22.2	<22.2	ug/kg dry	3.A
Aroclor-1268	11100-14-4	22.2	<22.2	ug/kg dry	3.A

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	94	25.1-153	3.E
Tetrachloro-m-xylene	877-09-8	87	44-152	3.E

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6		50-200	

Date Prepared: 04/04/2019

Preparation Method: EPA 3545 A

Date Analyzed: 04/04/2019

Analytical Method: EPA 8082 A

Client: Walden Associates	Client ID: PARK 0118.25 200 North Dr Hopewell Junct NY
Date (Time) Collected: 03/28/2019 14:30	Sample ID: Gate 1 Pylon 03282019 Composite
Date (Time) Received: 04/03/2019 15:23	Laboratory ID: 9040329-01 % Solid:89.94
Matrix: Soil	ELAP: #11693

Herbicide Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
2,4,5-TP (Silvex)	93-72-1	28	<28	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4-Dichlorophenylacetic Acid	19719-28-9	87	36.3-123	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
4,4'-Dibromooctafluorobiphenyl	10386-84-2		50-200	

Date Prepared: 04/10/2019

Preparation Method: EPA 3545 A

Date Analyzed: 04/24/2019

Analytical Method: EPA 8151 A

Client: Walden Associates	Client ID: PARK 0118.25 200 North Dr Hopewell Junct NY
Date (Time) Collected: 03/28/2019 14:30	Sample ID: Gate 1 Pylon 03282019 Composite
Date (Time) Received: 04/03/2019 15:23	Laboratory ID: 9040329-01 % Solid:89.94
Matrix: Soil	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Arsenic	04/04/2019	EPA 6010 C	3.56	4.99	mg/kg dry	
Barium	04/04/2019	EPA 6010 C	3.56	63.7	mg/kg dry	
Beryllium	04/04/2019	EPA 6010 C	3.56	<3.56	mg/kg dry	
Cadmium	04/04/2019	EPA 6010 C	3.56	<3.56	mg/kg dry	4.J
Chromium	04/04/2019	EPA 6010 C	3.56	15.7	mg/kg dry	
Copper	04/04/2019	EPA 6010 C	3.56	23.6	mg/kg dry	
Lead	04/04/2019	EPA 6010 C	3.56	27.4	mg/kg dry	4.J, 4.N
Manganese	04/04/2019	EPA 6010 C	35.6	1040	mg/kg dry	3.E
Nickel	04/04/2019	EPA 6010 C	3.56	18.1	mg/kg dry	
Selenium	04/04/2019	EPA 6010 C	3.56	<3.56	mg/kg dry	4.N
Silver	04/04/2019	EPA 6010 C	0.89	<0.89	mg/kg dry	
Zinc	04/04/2019	EPA 6010 C	3.56	67.4	mg/kg dry	

Date Prepared: 04/04/2019

Preparation Method: EPA 3050B

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Hexavalent Chromium	04/08/2019	EPA 7196 A	0.524	<0.524	mg/kg dry	

Date Prepared: 04/08/2019

Preparation Method: EPA 3060A

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Mercury	04/17/2019	EPA 7471 B	0.02	<0.02	mg/kg dry	

Date Prepared: 04/04/2019

Preparation Method: EPA 7471 B

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Cyanide	04/05/2019	EPA 9014	0.22	<0.22	mg/kg dry	

Date Prepared: 04/05/2019

Preparation Method: Distillation Prep

Client: Walden Associates	Client ID: PARK 0118.25 200 North Dr Hopewell Junct NY
Date (Time) Collected: 03/28/2019 15:00	Sample ID: Gate 5 Pylon 03282019 Composite
Date (Time) Received: 04/03/2019 15:23	Laboratory ID: 9040329-02 % Solid:85.84
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
2-Methylphenol	95-48-7	350	<350	ug/kg dry	
3/4-Methylphenol	108-39-4/106-44-5	175	<175	ug/kg dry	
Acenaphthene	83-32-9	175	<175	ug/kg dry	
Acenaphthylene	208-96-8	175	<175	ug/kg dry	
Anthracene	120-12-7	175	<175	ug/kg dry	
Benzo(a)anthracene	56-55-3	175	<175	ug/kg dry	
Benzo(a)pyrene	50-32-8	175	<175	ug/kg dry	
Benzo(b)fluoranthene	205-99-2	350	<350	ug/kg dry	
Benzo(g,h,i)perylene	191-24-2	175	<175	ug/kg dry	
Benzo(k)fluoranthene	207-08-9	175	<175	ug/kg dry	
Chrysene	218-01-9	175	<175	ug/kg dry	
Dibenzo(a,h)anthracene	53-70-3	175	<175	ug/kg dry	
Dibenzofuran	132-64-9	175	<175	ug/kg dry	
Fluoranthene	206-44-0	175	<175	ug/kg dry	
Fluorene	86-73-7	175	<175	ug/kg dry	
Hexachlorobenzene	118-74-1	175	<175	ug/kg dry	
Indeno(1,2,3-cd)pyrene	193-39-5	175	<175	ug/kg dry	
Naphthalene	91-20-3	175	<175	ug/kg dry	
Pentachlorophenol	87-86-5	175	<175	ug/kg dry	
Phenanthrene	85-01-8	175	<175	ug/kg dry	
Phenol	108-95-2	175	<175	ug/kg dry	
Pyrene	129-00-0	175	<175	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4,6-Tribromophenol	118-79-6	67	30.8-109	
2-Fluorobiphenyl	321-60-8	54	32.6-96.2	
2-Fluorophenol	367-12-4	54	32.8-95.8	
Nitrobenzene-d5	4165-60-0	51	28.1-100	
Phenol-d6	13127-88-3	58	31.2-102	
Terphenyl-d14	1718-51-0	62	32.6-110	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1		50-200	

Client: Walden Associates	Client ID: PARK 0118.25 200 North Dr Hopewell Junct NY
Date (Time) Collected: 03/28/2019 15:00	Sample ID: Gate 5 Pylon 03282019 Composite
Date (Time) Received: 04/03/2019 15:23	Laboratory ID: 9040329-02 % Solid:85.84
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
Acenaphthene-d10	15067-26-2		50-200	
Chrysene-d12	1719-03-5		50-200	
Naphthalene-d8	1146-65-2		50-200	
Perylene-d12	1520-96-3		50-200	
Phenanthrene-d10	1517-22-2		50-200	

Date Prepared: 04/09/2019

Preparation Method: EPA 3545 A

Date Analyzed: 04/10/2019

Analytical Method: EPA 8270 D



**LONG
ISLAND
ANALYTICAL
LABORATORIES INC.**

"TOMORROW'S ANALYTICAL SOLUTIONS TODAY"

110 Colin Drive • Holbrook, New York 11741

Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Walden Associates	Client ID: PARK 0118.25 200 North Dr Hopewell Junct NY
Date (Time) Collected: 03/28/2019 15:00	Sample ID: Gate 5 Pylon 03282019 Composite
Date (Time) Received: 04/03/2019 15:23	Laboratory ID: 9040329-02 % Solid:85.84
Matrix: Soil	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
4,4'-DDD	72-54-8	2.33	<2.33	ug/kg dry	
4,4'-DDE	72-55-9	2.33	11.1	ug/kg dry	
4,4'-DDT	50-29-3	2.33	<2.33	ug/kg dry	
Aldrin	309-00-2	2.33	<2.33	ug/kg dry	
alpha-BHC	319-84-6	5.83	<5.83	ug/kg dry	
beta-BHC	319-85-7	5.83	<5.83	ug/kg dry	4.M
cis-Chlordane	5103-71-9	5.83	<5.83	ug/kg dry	
delta-BHC	319-86-8	5.83	<5.83	ug/kg dry	
Dieldrin	60-57-1	2.33	<2.33	ug/kg dry	
Endosulfan I	959-98-8	5.83	<5.83	ug/kg dry	
Endosulfan II	33213-65-9	5.83	<5.83	ug/kg dry	
Endosulfan Sulfate	1031-07-8	5.83	<5.83	ug/kg dry	
Endrin	72-20-8	5.83	<5.83	ug/kg dry	
gamma-BHC	58-89-9	5.83	<5.83	ug/kg dry	
Heptachlor	76-44-8	5.83	<5.83	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	103	50.4-127	
Tetrachloro-m-xylene	877-09-8	102	57.5-127	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6		50-200	

Date Prepared: 04/05/2019

Preparation Method: EPA 3545 A

Date Analyzed: 04/05/2019

Analytical Method: EPA 8081 B

Client: Walden Associates	Client ID: PARK 0118.25 200 North Dr Hopewell Junct NY
Date (Time) Collected: 03/28/2019 15:00	Sample ID: Gate 5 Pylon 03282019 Composite
Date (Time) Received: 04/03/2019 15:23	Laboratory ID: 9040329-02 % Solid:85.84
Matrix: Soil	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
Aroclor-1016	12674-11-2	11.7	<11.7	ug/kg dry	
Aroclor-1221	11104-28-2	11.7	<11.7	ug/kg dry	
Aroclor-1232	11141-16-5	11.7	<11.7	ug/kg dry	
Aroclor-1242	53469-21-9	11.7	<11.7	ug/kg dry	
Aroclor-1248	12672-29-6	11.7	<11.7	ug/kg dry	
Aroclor-1254	11097-69-1	11.7	<11.7	ug/kg dry	
Aroclor-1260	11096-82-5	11.7	<11.7	ug/kg dry	
Aroclor-1262	37324-23-5	11.7	<11.7	ug/kg dry	
Aroclor-1268	11100-14-4	11.7	<11.7	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	106	25.1-153	
Tetrachloro-m-xylene	877-09-8	96	44-152	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6		50-200	

Date Prepared: 04/04/2019

Preparation Method: EPA 3545 A

Date Analyzed: 04/04/2019

Analytical Method: EPA 8082 A

Client: Walden Associates	Client ID: PARK 0118.25 200 North Dr Hopewell Junct NY
Date (Time) Collected: 03/28/2019 15:00	Sample ID: Gate 5 Pylon 03282019 Composite
Date (Time) Received: 04/03/2019 15:23	Laboratory ID: 9040329-02 % Solid:85.84
Matrix: Soil	ELAP: #11693

Herbicide Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
2,4,5-TP (Silvex)	93-72-1	29	<29	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4-Dichlorophenylacetic Acid	19719-28-9	87	36.3-123	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
4,4'-Dibromooctafluorobiphenyl	10386-84-2		50-200	

Date Prepared: 04/10/2019

Preparation Method: EPA 3545 A

Date Analyzed: 04/24/2019

Analytical Method: EPA 8151 A

Client: Walden Associates	Client ID: PARK 0118.25 200 North Dr Hopewell Junct NY
Date (Time) Collected: 03/28/2019 15:00	Sample ID: Gate 5 Pylon 03282019 Composite
Date (Time) Received: 04/03/2019 15:23	Laboratory ID: 9040329-02 % Solid:85.84
Matrix: Soil	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Arsenic	04/04/2019	EPA 6010 C	3.75	5.07	mg/kg dry	
Barium	04/04/2019	EPA 6010 C	3.75	51.7	mg/kg dry	
Beryllium	04/04/2019	EPA 6010 C	3.75	<3.75	mg/kg dry	
Cadmium	04/04/2019	EPA 6010 C	3.75	<3.75	mg/kg dry	4.J
Chromium	04/04/2019	EPA 6010 C	3.75	13.5	mg/kg dry	
Copper	04/04/2019	EPA 6010 C	3.75	25.3	mg/kg dry	
Lead	04/04/2019	EPA 6010 C	3.75	14.3	mg/kg dry	4.J, 4.N
Manganese	04/04/2019	EPA 6010 C	37.5	639	mg/kg dry	3.E
Nickel	04/04/2019	EPA 6010 C	3.75	19.3	mg/kg dry	
Selenium	04/04/2019	EPA 6010 C	3.75	<3.75	mg/kg dry	4.N
Silver	04/04/2019	EPA 6010 C	0.94	<0.94	mg/kg dry	
Zinc	04/04/2019	EPA 6010 C	3.75	62.6	mg/kg dry	

Date Prepared: 04/04/2019

Preparation Method: EPA 3050B

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Hexavalent Chromium	04/08/2019	EPA 7196 A	0.541	<0.541	mg/kg dry	

Date Prepared: 04/08/2019

Preparation Method: EPA 3060A

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Mercury	04/17/2019	EPA 7471 B	0.02	<0.02	mg/kg dry	

Date Prepared: 04/04/2019

Preparation Method: EPA 7471 B

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Cyanide	04/05/2019	EPA 9014	0.23	<0.23	mg/kg dry	

Date Prepared: 04/05/2019

Preparation Method: Distillation Prep

Client: Walden Associates	Client ID: PARK 0118.25 200 North Dr Hopewell Junct NY
Date (Time) Collected: 03/28/2019 14:35	Sample ID: Gate 1 Pylon 03282019 Grab
Date (Time) Received: 04/03/2019 15:23	Laboratory ID: 9040329-03 % Solid:93.57
Matrix: Soil	ELAP: #11693

Volatiles Low Level Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,1,1-Trichloroethane	71-55-6	5.34	<5.34	ug/kg dry	1.B
1,1-Dichloroethane	75-34-3	5.34	<5.34	ug/kg dry	1.B
1,1-Dichloroethene	75-35-4	5.34	<5.34	ug/kg dry	1.B
1,2,4-Trimethylbenzene	95-63-6	5.34	<5.34	ug/kg dry	1.B
1,2-Dichlorobenzene	95-50-1	5.34	<5.34	ug/kg dry	1.B
1,2-Dichloroethane	107-06-2	5.34	<5.34	ug/kg dry	1.B
1,3,5-Trimethylbenzene	108-67-8	5.34	<5.34	ug/kg dry	1.B
1,3-Dichlorobenzene	541-73-1	5.34	<5.34	ug/kg dry	1.B
1,4-Dichlorobenzene	106-46-7	5.34	<5.34	ug/kg dry	1.B
1,4-Dioxane	123-91-1	26.7	<26.7	ug/kg dry	1.B
Acetone	67-64-1	21.4	<21.4	ug/kg dry	1.B
Benzene	71-43-2	5.34	<5.34	ug/kg dry	1.B
Carbon Tetrachloride	56-23-5	5.34	<5.34	ug/kg dry	1.B
Chlorobenzene	108-90-7	5.34	<5.34	ug/kg dry	1.B
Chloroform	67-66-3	5.34	<5.34	ug/kg dry	1.B
cis-1,2-Dichloroethene	156-59-2	5.34	<5.34	ug/kg dry	1.B
Ethylbenzene	100-41-4	5.34	<5.34	ug/kg dry	1.B
m,p-Xylenes	108-38-3/106-42-3	10.7	<10.7	ug/kg dry	1.B
Methyl Ethyl Ketone (2-Butanone)	78-93-3	10.7	<10.7	ug/kg dry	1.B
Methylene Chloride	75-09-2	5.34	<5.34	ug/kg dry	1.B
Methyl-tert-Butyl Ether	1634-04-4	5.34	<5.34	ug/kg dry	1.B
n-Butylbenzene	104-51-8	5.34	<5.34	ug/kg dry	1.B
n-Propylbenzene	103-65-1	5.34	<5.34	ug/kg dry	1.B
o-Xylene	95-47-6	5.34	<5.34	ug/kg dry	1.B
sec-Butylbenzene	135-98-8	5.34	<5.34	ug/kg dry	1.B
tert-Butylbenzene	98-06-6	5.34	<5.34	ug/kg dry	1.B
Tetrachloroethene	127-18-4	5.34	<5.34	ug/kg dry	1.B
Toluene	108-88-3	5.34	<5.34	ug/kg dry	1.B
trans-1,2-Dichloroethene	156-60-5	5.34	<5.34	ug/kg dry	1.B
Trichloroethene	79-01-6	5.34	<5.34	ug/kg dry	1.B

Client: Walden Associates	Client ID: PARK 0118.25 200 North Dr Hopewell Junct NY
Date (Time) Collected: 03/28/2019 14:35	Sample ID: Gate 1 Pylon 03282019 Grab
Date (Time) Received: 04/03/2019 15:23	Laboratory ID: 9040329-03 % Solid:93.57
Matrix: Soil	ELAP: #11693

Volatiles Low Level Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
Vinyl chloride	75-01-4	5.34	<5.34	ug/kg dry	1.B

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
1,2-Dichloroethane-d4	10706-07-0	147	71.6-131	1.B
4-Bromofluorobenzene	460-00-4	108	75.4-133	1.B
Dibromofluoromethane	1868-53-7	118	75.6-135	1.B
Toluene-d8	2037-26-5	97	79.9-123	1.B

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1		50-200	1.B
1,4-Difluorobenzene	540-36-3		50-200	1.B
Chlorobenzene-d5	3114-55-4		50-200	1.B
Pentafluorobenzene	363-72-4		50-200	1.B

Date Prepared: 04/05/2019

Preparation Method: EPA 5035A-L

Date Analyzed: 04/12/2019

Analytical Method: EPA 8260 C

Client: Walden Associates	Client ID: PARK 0118.25 200 North Dr Hopewell Junct NY
Date (Time) Collected: 03/28/2019 15:05	Sample ID: Gate 5 Pylon 03282019 Grab
Date (Time) Received: 04/03/2019 15:23	Laboratory ID: 9040329-04 % Solid:85.95
Matrix: Soil	ELAP: #11693

Volatiles Low Level Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,1,1-Trichloroethane	71-55-6	5.82	<5.82	ug/kg dry	1.B
1,1-Dichloroethane	75-34-3	5.82	<5.82	ug/kg dry	1.B
1,1-Dichloroethene	75-35-4	5.82	<5.82	ug/kg dry	1.B
1,2,4-Trimethylbenzene	95-63-6	5.82	<5.82	ug/kg dry	1.B
1,2-Dichlorobenzene	95-50-1	5.82	<5.82	ug/kg dry	1.B
1,2-Dichloroethane	107-06-2	5.82	<5.82	ug/kg dry	1.B
1,3,5-Trimethylbenzene	108-67-8	5.82	<5.82	ug/kg dry	1.B
1,3-Dichlorobenzene	541-73-1	5.82	<5.82	ug/kg dry	1.B
1,4-Dichlorobenzene	106-46-7	5.82	<5.82	ug/kg dry	1.B
1,4-Dioxane	123-91-1	29.1	<29.1	ug/kg dry	1.B
Acetone	67-64-1	23.3	<23.3	ug/kg dry	1.B
Benzene	71-43-2	5.82	<5.82	ug/kg dry	1.B
Carbon Tetrachloride	56-23-5	5.82	<5.82	ug/kg dry	1.B
Chlorobenzene	108-90-7	5.82	<5.82	ug/kg dry	1.B
Chloroform	67-66-3	5.82	<5.82	ug/kg dry	1.B
cis-1,2-Dichloroethene	156-59-2	5.82	<5.82	ug/kg dry	1.B
Ethylbenzene	100-41-4	5.82	<5.82	ug/kg dry	1.B
m,p-Xylenes	108-38-3/106-42-3	11.6	<11.6	ug/kg dry	1.B
Methyl Ethyl Ketone (2-Butanone)	78-93-3	11.6	<11.6	ug/kg dry	1.B
Methylene Chloride	75-09-2	5.82	<5.82	ug/kg dry	1.B
Methyl-tert-Butyl Ether	1634-04-4	5.82	<5.82	ug/kg dry	1.B
n-Butylbenzene	104-51-8	5.82	<5.82	ug/kg dry	1.B
n-Propylbenzene	103-65-1	5.82	<5.82	ug/kg dry	1.B
o-Xylene	95-47-6	5.82	<5.82	ug/kg dry	1.B
sec-Butylbenzene	135-98-8	5.82	<5.82	ug/kg dry	1.B
tert-Butylbenzene	98-06-6	5.82	<5.82	ug/kg dry	1.B
Tetrachloroethene	127-18-4	5.82	<5.82	ug/kg dry	1.B
Toluene	108-88-3	5.82	<5.82	ug/kg dry	1.B
trans-1,2-Dichloroethene	156-60-5	5.82	<5.82	ug/kg dry	1.B
Trichloroethene	79-01-6	5.82	<5.82	ug/kg dry	1.B

Client: Walden Associates	Client ID: PARK 0118.25 200 North Dr Hopewell Junct NY
Date (Time) Collected: 03/28/2019 15:05	Sample ID: Gate 5 Pylon 03282019 Grab
Date (Time) Received: 04/03/2019 15:23	Laboratory ID: 9040329-04 % Solid:85.95
Matrix: Soil	ELAP: #11693

Volatiles Low Level Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
Vinyl chloride	75-01-4	5.82	<5.82	ug/kg dry	1.B

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
1,2-Dichloroethane-d4	10706-07-0	110	71.6-131	1.B
4-Bromofluorobenzene	460-00-4	109	75.4-133	1.B
Dibromofluoromethane	1868-53-7	105	75.6-135	1.B
Toluene-d8	2037-26-5	109	79.9-123	1.B

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1		50-200	1.B
1,4-Difluorobenzene	540-36-3		50-200	1.B
Chlorobenzene-d5	3114-55-4		50-200	1.B
Pentafluorobenzene	363-72-4		50-200	1.B

Date Prepared: 04/05/2019

Preparation Method: EPA 5035A-L

Date Analyzed: 04/12/2019

Analytical Method: EPA 8260 C

Data Qualifiers Key Reference:

- 1.B Holding time exceeded, results cannot be used for regulatory purposes.
- 3.A Reporting limit raised due to matrix interference.
- 3.E Compound reported at a dilution factor.
- 4.J Continuing Calibration Verification (CCV) quality control levels failed low, values are considered to be estimated.
- 4.M LCS recovery was above QC acceptance limit.
- 4.N LCS recovery was below QC acceptance limit.
- MDL Minimum Detection Limit
- LOQ Limit of Quantitation

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

CLIENT NAME/ADDRESS Walden Environmental Engineering 16 Spring Street Oyster Bay N.Y. 11771				CONTACT: LARRY LEFERE PHONE: 516-624-7200 EMAIL: lilepere@walden-engineers.com		SAMPLER (SIGNATURE) Lawrence Leferé		SAMPLES SEaled YES / NO CORRECT CONTAINERS YES / NO		9040329	
PROJECT LOCATION: Project #: 1, Park 0118.25 Park 84 200 North Drive Hephworth Junction NY				SAMPLES RECEIVED AT 3.7 °C		ANALYSIS REQUIRED 6 NYSCL Part 375 6 NYSCL Part 375 6 NYSCL Part 375		IN		OF	
TERMS & CONDITIONS: Accounts are payable in full within thirty days, outstanding balances accrue service charges of 1.5% per month. Tending of samples to LIAL for analytical testing constitutes agreement by buyer/sampler to LIAL's Standard terms											
LABORATORY ID #	MATRIX	TYPE	PH	RES. CHLORINE	PRES.	DATE	TIME	SAMPLE #	LOCATION		
1. 9040329-01	S	C				3/28/19	14:30	Gate 1 Pylon 03282019 Composite	X		2
2. 01	S	C				3/28/19	15:00	Gate 5 Pylon 03282019 Composite	X		2
3. 03	S	G				3/28/19	14:35	Gate 1 Pylon 03282019 Grab	X		1
4. 04	S	G				3/28/19	15:05	Gate 5 Pylon 03282019 Grab	X		1
5.											
6.											
7.											
8.											
9.											
10.											
11.											
12.											
13.											
14.											

MATRIX: S=SOIL; SL=SLUDGE; DW=DRINKING WATER; A=AIR; W=WPE; PC=PAINT CHIPS; BM=BULK MATERIAL; O=OIL; WM=WASTE WATER
TYPE: G=GRAB; C=COMPOSITE; SS=SPLIT SPOON
PRES: (1) ICE; (2) HCL; (3) H₂SO₄; (4) NaOH; (5) Na₂S₂O₃; (6) HNO₃; (7) OTHER
TURNAROUND REQUIRED: ☒ NORMAL ☐ STAT
COMMENTS / INSTRUCTIONS: Please compare results to industrial soil cleanup objectives as per 6 NYCRR Part 375 6.8(b)

RELINQUISHED BY (SIGNATURE) Lawrence Leferé		DATE 3/29/19 TIME 11:44	PRINTED NAME Lawrence Leferé	RECEIVED BY (SIGNATURE) Louis Goldstein	DATE 3/29/19 TIME 11:44	PRINTED NAME Louis Goldstein
RELINQUISHED BY (SIGNATURE) Louis Goldstein		DATE 4/3/19 TIME 14:18	PRINTED NAME Louis Goldstein	RECEIVED BY SAMPLE CUSTODIAN Brandon May	DATE 4/3/19 TIME 14:18	PRINTED NAME Brandon May



Monday, April 29, 2019

Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Project ID: IPARK 0118- BLDG 720 DRUMS
SDG ID: GCD00880
Sample ID#s: CD00880 - CD00881

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



Sample Id Cross Reference

April 29, 2019

SDG I.D.: GCD00880

Project ID: IPARK 0118- BLDG 720 DRUMS

Client Id	Lab Id	Matrix
BLDG 720 DRUMS COMP	CD00880	SOIL
BLDG 720 DRUMS GRAB	CD00881	SOIL



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



Analysis Report

April 29, 2019

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: SOIL
Location Code: WALDENE
Rush Request: Standard
P.O.#: IPARK0118

Custody Information

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

Date

04/23/19 15:00
04/24/19 16:36

Time

Laboratory Data

SDG ID: GCD00880
Phoenix ID: CD00880

Project ID: IPARK 0118- BLDG 720 DRUMS
Client ID: BLDG 720 DRUMS COMP

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	6.81	0.71	mg/Kg	1	04/25/19	EK	SW6010D
Barium	57.4	0.36	mg/Kg	1	04/25/19	EK	SW6010D
Beryllium	0.53	0.28	mg/Kg	1	04/25/19	EK	SW6010D
Cadmium	0.73	0.36	mg/Kg	1	04/25/19	EK	SW6010D
Chromium	16.5	0.36	mg/Kg	1	04/25/19	EK	SW6010D
Copper	28.2	7.1	mg/kg	10	04/26/19	EK	SW6010D
Lead	22.9	0.36	mg/Kg	1	04/25/19	EK	SW6010D
Manganese	1240	3.6	mg/Kg	10	04/26/19	EK	SW6010D
Mercury	0.04	0.03	mg/Kg	1	04/25/19	RS	SW7471B
Nickel	25.0	0.36	mg/Kg	1	04/25/19	EK	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	04/25/19	EK	SW6010D
Silver	< 0.36	0.36	mg/Kg	1	04/25/19	EK	SW6010D
Trivalent Chromium	16.5	0.36	mg/kg	1	04/27/19		CALC 6010-7196
Zinc	76.7	0.7	mg/Kg	1	04/25/19	EK	SW6010D
Percent Solid	90		%		04/24/19	ML	SW846-%Solid
Chromium, Hex. (SW3060 digestion)	< 0.43	0.43	mg/Kg	1	04/27/19	KMH	SW7196A
pH at 25C - Soil	7.50	1.00	pH Units	1	04/24/19 22:29	AP	SW9045
Redox Potential	153		mV	1	04/24/19	AP	SM2580B-09
Total Cyanide (SW9010C Distill.)	< 0.56	0.56	mg/Kg	1	04/26/19	O/GD	SW9012B
Soil Extraction for PCB	Completed				04/24/19	MM/V	SW3545A
Soil Extraction for Pesticides	Completed				04/24/19	MM/V	SW3545A
Soil Extraction for SVOA	Completed				04/24/19	JJ/LV	SW3545A
Mercury Digestion	Completed				04/25/19	I/I	SW7471B
Soil Extraction for Herbicide	Completed				04/25/19	C/D	SW8151A
Total Metals Digest	Completed				04/24/19	B/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	92	ug/Kg	10	04/27/19	CW	SW8151A
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2,4,5-TP (Silvex)	ND	92	ug/Kg	10	04/27/19	CW	SW8151A
2,4-D	ND	180	ug/Kg	10	04/27/19	CW	SW8151A
2,4-DB	ND	1800	ug/Kg	10	04/27/19	CW	SW8151A
Dalapon	ND	92	ug/Kg	10	04/27/19	CW	SW8151A
Dicamba	ND	92	ug/Kg	10	04/27/19	CW	SW8151A
Dichloroprop	ND	180	ug/Kg	10	04/27/19	CW	SW8151A
Dinoseb	ND	180	ug/Kg	10	04/27/19	CW	SW8151A
<u>QA/QC Surrogates</u>							
% DCAA	60		%	10	04/27/19	CW	30 - 150 %
% DCAA (Confirmation)	45		%	10	04/27/19	CW	30 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	370	ug/Kg	10	04/26/19	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	04/26/19	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	04/26/19	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	04/26/19	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	04/26/19	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	04/26/19	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	04/26/19	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	04/26/19	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	04/26/19	SC	SW8082A

QA/QC Surrogates

% DCBP	71		%	10	04/26/19	SC	30 - 150 %
% DCBP (Confirmation)	77		%	10	04/26/19	SC	30 - 150 %
% TCMX	80		%	10	04/26/19	SC	30 - 150 %
% TCMX (Confirmation)	83		%	10	04/26/19	SC	30 - 150 %

Pesticides - Soil

4,4' -DDD	ND	3.0	ug/Kg	2	04/26/19	CW	SW8081B
4,4' -DDE	21	2.2	ug/Kg	2	04/26/19	CW	SW8081B
4,4' -DDT	4.7	2.2	ug/Kg	2	04/26/19	CW	SW8081B
a-BHC	ND	7.3	ug/Kg	2	04/26/19	CW	SW8081B
a-Chlordane	ND	3.7	ug/Kg	2	04/26/19	CW	SW8081B
Aldrin	ND	3.7	ug/Kg	2	04/26/19	CW	SW8081B
b-BHC	ND	7.3	ug/Kg	2	04/26/19	CW	SW8081B
Chlordane	ND	37	ug/Kg	2	04/26/19	CW	SW8081B
d-BHC	ND	7.3	ug/Kg	2	04/26/19	CW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	04/26/19	CW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	04/26/19	CW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	04/26/19	CW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	04/26/19	CW	SW8081B
Endrin	ND	7.3	ug/Kg	2	04/26/19	CW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	04/26/19	CW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	04/26/19	CW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	04/26/19	CW	SW8081B
g-Chlordane	ND	3.7	ug/Kg	2	04/26/19	CW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	04/26/19	CW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	04/26/19	CW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	04/26/19	CW	SW8081B
Toxaphene	ND	150	ug/Kg	2	04/26/19	CW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>QA/QC Surrogates</u>							
% DCBP	89		%	2	04/26/19	CW	30 - 150 %
% DCBP (Confirmation)	88		%	2	04/26/19	CW	30 - 150 %
% TCMX	85		%	2	04/26/19	CW	30 - 150 %
% TCMX (Confirmation)	65		%	2	04/26/19	CW	30 - 150 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
1,2-Dichlorobenzene	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
1,2-Diphenylhydrazine	ND	360	ug/Kg	1	04/25/19	WB	SW8270D
1,3-Dichlorobenzene	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
1,4-Dichlorobenzene	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
2,4,6-Trichlorophenol	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
2,4-Dichlorophenol	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
2,4-Dimethylphenol	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
2,4-Dinitrophenol	ND	360	ug/Kg	1	04/25/19	WB	SW8270D
2,4-Dinitrotoluene	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
2,6-Dinitrotoluene	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
2-Chloronaphthalene	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
2-Chlorophenol	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
2-Methylnaphthalene	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
2-Nitroaniline	ND	360	ug/Kg	1	04/25/19	WB	SW8270D
2-Nitrophenol	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	04/25/19	WB	SW8270D
3,3'-Dichlorobenzidine	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
3-Nitroaniline	ND	360	ug/Kg	1	04/25/19	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	360	ug/Kg	1	04/25/19	WB	SW8270D
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	04/25/19	WB	SW8270D
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
4-Chloroaniline	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
4-Nitroaniline	ND	580	ug/Kg	1	04/25/19	WB	SW8270D
4-Nitrophenol	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
Acenaphthene	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
Acetophenone	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
Aniline	ND	360	ug/Kg	1	04/25/19	WB	SW8270D
Anthracene	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
Benz(a)anthracene	450	250	ug/Kg	1	04/25/19	WB	SW8270D
Benzidine	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
Benzo(a)pyrene	480	250	ug/Kg	1	04/25/19	WB	SW8270D
Benzo(b)fluoranthene	430	250	ug/Kg	1	04/25/19	WB	SW8270D
Benzo(ghi)perylene	270	250	ug/Kg	1	04/25/19	WB	SW8270D
Benzo(k)fluoranthene	450	250	ug/Kg	1	04/25/19	WB	SW8270D
Benzoic acid	ND	720	ug/Kg	1	04/25/19	WB	SW8270D
Benzyl butyl phthalate	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	04/25/19	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	04/25/19	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
Carbazole	ND	360	ug/Kg	1	04/25/19	WB	SW8270D
Chrysene	470	250	ug/Kg	1	04/25/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
Dibenzofuran	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
Diethyl phthalate	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
Dimethylphthalate	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
Di-n-butylphthalate	ND	360	ug/Kg	1	04/25/19	WB	SW8270D
Di-n-octylphthalate	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
Fluoranthene	1000	250	ug/Kg	1	04/25/19	WB	SW8270D
Fluorene	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
Hexachlorobenzene	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
Hexachlorobutadiene	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
Hexachloroethane	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	300	250	ug/Kg	1	04/25/19	WB	SW8270D
Isophorone	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
Naphthalene	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
Nitrobenzene	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
N-Nitrosodimethylamine	ND	360	ug/Kg	1	04/25/19	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
N-Nitrosodiphenylamine	ND	360	ug/Kg	1	04/25/19	WB	SW8270D
Pentachloronitrobenzene	ND	360	ug/Kg	1	04/25/19	WB	SW8270D
Pentachlorophenol	ND	360	ug/Kg	1	04/25/19	WB	SW8270D
Phenanthrene	530	250	ug/Kg	1	04/25/19	WB	SW8270D
Phenol	ND	250	ug/Kg	1	04/25/19	WB	SW8270D
Pyrene	860	250	ug/Kg	1	04/25/19	WB	SW8270D
Pyridine	ND	360	ug/Kg	1	04/25/19	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	73		%	1	04/25/19	WB	30 - 130 %
% 2-Fluorobiphenyl	55		%	1	04/25/19	WB	30 - 130 %
% 2-Fluorophenol	42		%	1	04/25/19	WB	30 - 130 %
% Nitrobenzene-d5	57		%	1	04/25/19	WB	30 - 130 %
% Phenol-d5	52		%	1	04/25/19	WB	30 - 130 %
% Terphenyl-d14	55		%	1	04/25/19	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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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

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:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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

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

April 29, 2019

Reviewed and Released by: Bobbi Aloisa, Vice President



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



Analysis Report

April 29, 2019

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: SOIL
Location Code: WALDENE
Rush Request: Standard
P.O.#: IPARK0118

Custody Information

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

Date

04/23/19 15:30
04/24/19 16:36

Time

Laboratory Data

SDG ID: GCD00880
Phoenix ID: CD00881

Project ID: IPARK 0118- BLDG 720 DRUMS
Client ID: BLDG 720 DRUMS GRAB

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
1,1,1-Trichloroethane	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
1,1,2-Trichloroethane	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
1,1-Dichloroethane	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
1,1-Dichloroethene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
1,1-Dichloropropene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
1,2,3-Trichloropropane	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
1,2-Dibromoethane	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
1,2-Dichlorobenzene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
1,2-Dichloroethane	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
1,2-Dichloropropane	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
1,3-Dichlorobenzene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
1,3-Dichloropropane	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
1,4-Dichlorobenzene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
2,2-Dichloropropane	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
2-Chlorotoluene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
2-Hexanone	ND	25	ug/Kg	1	04/26/19	HM	SW8260C
2-Isopropyltoluene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
4-Chlorotoluene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
4-Methyl-2-pentanone	ND	25	ug/Kg	1	04/26/19	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/Kg	1	04/26/19	HM	SW8260C
Acrylonitrile	ND	10	ug/Kg	1	04/26/19	HM	SW8260C
Benzene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
Bromobenzene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
Bromochloromethane	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
Bromodichloromethane	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
Bromoform	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
Bromomethane	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
Carbon Disulfide	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
Carbon tetrachloride	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
Chlorobenzene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
Chloroethane	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
Chloroform	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
Chloromethane	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
Dibromochloromethane	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
Dibromomethane	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
Dichlorodifluoromethane	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
Ethylbenzene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
Hexachlorobutadiene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
Isopropylbenzene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
m&p-Xylene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
Methyl Ethyl Ketone	ND	25	ug/Kg	1	04/26/19	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	04/26/19	HM	SW8260C
Methylene chloride	ND	10	ug/Kg	1	04/26/19	HM	SW8260C
Naphthalene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
n-Butylbenzene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
n-Propylbenzene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
o-Xylene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
p-Isopropyltoluene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
sec-Butylbenzene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
Styrene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
tert-Butylbenzene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
Tetrachloroethene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	04/26/19	HM	SW8260C
Toluene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
Total Xylenes	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
trans-1,2-Dichloroethene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	04/26/19	HM	SW8260C
Trichloroethene	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
Trichlorofluoromethane	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
Trichlorotrifluoroethane	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
Vinyl chloride	ND	5.1	ug/Kg	1	04/26/19	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	94		%	1	04/26/19	HM	70 - 130 %
% Bromofluorobenzene	84		%	1	04/26/19	HM	70 - 130 %
% Dibromofluoromethane	99		%	1	04/26/19	HM	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	95		%	1	04/26/19	HM	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	76	ug/kg	1	04/26/19	HM	SW8260C
Field Extraction	Completed				04/23/19		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

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:

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

April 29, 2019

Reviewed and Released by: Bobbi Aloisa, Vice President



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

April 29, 2019

QA/QC Data

SDG I.D.: GCD00880

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 476643 (mg/kg), QC Sample No: CD01436 40X (CD00880)													
<u>Chromium, Hexavalent - Soil</u>													
Chromium, Hexavalent	BRL	0.40	<0.45	<0.43	NC	94.1						85 - 115	30
Chromium, Hexavalent (Ins)						101			100			85 - 115	30
Chromium, Hexavalent (Sol)						96.0			91.2			85 - 115	30
QA/QC Batch 476228 (mg/kg), QC Sample No: CD00536 (CD00880)													
Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	103	101	2.0	92.6	88.2	4.9	70 - 130	30
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 476158 (mg/kg), QC Sample No: CD00499 (CD00880)													
<u>ICP Metals - Soil</u>													
Arsenic	BRL	0.64	2.03	1.98	NC	116			90.7			75 - 125	30
Barium	BRL	0.32	38.6	35.8	7.50	124			104			75 - 125	30
Beryllium	BRL	0.26	0.41	0.32	NC	117			100			75 - 125	30
Cadmium	BRL	0.32	0.36	<0.35	NC	110			96.3			75 - 125	30
Chromium	BRL	0.32	16.5	15.3	7.50	122			99.3			75 - 125	30
Copper	BRL	0.64	13.8	10.3	29.0	106			107			75 - 125	30
Lead	BRL	0.32	12.5	8.77	35.1	123			97.4			75 - 125	30 r
Manganese	BRL	0.32	366	349	4.80	119			123			75 - 125	30
Nickel	BRL	0.32	9.35	6.68	33.3	119			96.0			75 - 125	30 r
Selenium	BRL	1.3	<1.4	<1.4	NC	102			79.9			75 - 125	30
Silver	BRL	0.32	<0.34	<0.35	NC	119			99.0			75 - 125	30
Zinc	BRL	0.64	30.7	20.1	41.7	117			91.1			75 - 125	30 r

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



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QA/QC Report

April 29, 2019

QA/QC Data

SDG I.D.: GCD00880

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 476354 (mg/Kg), QC Sample No: CD00721 50X (CD00880)													
Total Cyanide (SW9010C Distill.)	BRL	0.50	<0.52	<0.57	NC	98.0			110			80 - 120	30
Comment:													
Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils													
QA/QC Batch 476203 (PH), QC Sample No: CD00724 (CD00880)													
pH at 25C - Soil			6.76	6.78	0.30	99.4						85 - 115	20



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QA/QC Report

April 29, 2019

QA/QC Data

SDG I.D.: GCD00880

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 476326 (ug/Kg), QC Sample No: CD00861 10X (CD00880)										
<u>Chlorinated Herbicides - Soil</u>										
2,4,5-T	ND	83	67	60	11.0	64	61	4.8	40 - 140	30
2,4,5-TP (Silvex)	ND	83	78	73	6.6	80	74	7.8	40 - 140	30
2,4-D	ND	170	86	77	11.0	83	80	3.7	40 - 140	30
2,4-DB	ND	1700	77	72	6.7	80	82	2.5	40 - 140	30
Dalapon	ND	83	56	56	0.0	42	40	4.9	40 - 140	30
Dicamba	ND	83	83	63	27.4	76	74	2.7	40 - 140	30
Dichloroprop	ND	83	77	67	13.9	77	62	21.6	40 - 140	30
Dinoseb	ND	83	65	50	26.1	66	62	6.3	40 - 140	30
% DCAA (Surrogate Rec)	44	%	62	52	17.5	59	56	5.2	30 - 150	30
% DCAA (Surrogate Rec) (Confirm	36	%	46	41	11.5	46	42	9.1	30 - 150	30
QA/QC Batch 476117 (ug/Kg), QC Sample No: CD00477 2X (CD00880)										
<u>Polychlorinated Biphenyls - Soil</u>										
PCB-1016	ND	33	59	70	17.1	43	47	8.9	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	74	89	18.4	55	60	8.7	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	75	%	81	86	6.0	59	63	6.6	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	85	%	93	98	5.2	70	72	2.8	30 - 150	30
% TCMX (Surrogate Rec)	80	%	77	92	17.8	57	62	8.4	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	82	%	84	98	15.4	64	67	4.6	30 - 150	30
QA/QC Batch 476161 (ug/Kg), QC Sample No: CD00477 2X (CD00880)										
<u>Pesticides - Soil</u>										
4,4' -DDD	ND	1.7	72	84	15.4	47	58	21.0	40 - 140	30
4,4' -DDE	ND	1.7	68	80	16.2	45	53	16.3	40 - 140	30
4,4' -DDT	ND	1.7	73	86	16.4	49	58	16.8	40 - 140	30
a-BHC	ND	1.0	66	73	10.1	43	53	20.8	40 - 140	30
a-Chlordane	ND	3.3	74	81	9.0	50	60	18.2	40 - 140	30
Aldrin	ND	1.0	70	77	9.5	45	55	20.0	40 - 140	30
b-BHC	ND	1.0	66	71	7.3	44	53	18.6	40 - 140	30
Chlordane	ND	33	70	78	10.8	47	56	17.5	40 - 140	30
d-BHC	ND	3.3	61	68	10.9	39	49	22.7	40 - 140	30
Dieldrin	ND	1.0	69	78	12.2	47	56	17.5	40 - 140	30
Endosulfan I	ND	3.3	76	84	10.0	51	63	21.1	40 - 140	30
Endosulfan II	ND	3.3	74	85	13.8	50	60	18.2	40 - 140	30
Endosulfan sulfate	ND	3.3	65	76	15.6	43	52	18.9	40 - 140	30

QA/QC Data

SDG I.D.: GCD00880

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Endrin	ND	3.3	70	82	15.8	48	57	17.1	40 - 140	30
Endrin aldehyde	ND	3.3	65	70	7.4	41	45	9.3	40 - 140	30
Endrin ketone	ND	3.3	71	83	15.6	45	57	23.5	40 - 140	30
g-BHC	ND	1.0	67	71	5.8	42	53	23.2	40 - 140	30
g-Chlordane	ND	3.3	70	78	10.8	47	56	17.5	40 - 140	30
Heptachlor	ND	3.3	74	80	7.8	49	59	18.5	40 - 140	30
Heptachlor epoxide	ND	3.3	70	78	10.8	47	56	17.5	40 - 140	30
Methoxychlor	ND	3.3	65	77	16.9	43	51	17.0	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	79	%	72	84	15.4	51	60	16.2	30 - 150	30
% DCBP (Confirmation)	88	%	83	95	13.5	56	67	17.9	30 - 150	30
% TCMX	77	%	69	73	5.6	46	56	19.6	30 - 150	30
% TCMX (Confirmation)	83	%	78	82	5.0	50	60	18.2	30 - 150	30

QA/QC Batch 476162 (ug/kg), QC Sample No: CD00785 (CD00880)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	230	60	67	11.0	66	58	12.9	30 - 130	30
1,2,4-Trichlorobenzene	ND	230	57	64	11.6	65	55	16.7	30 - 130	30
1,2-Dichlorobenzene	ND	180	52	57	9.2	61	49	21.8	30 - 130	30
1,2-Diphenylhydrazine	ND	230	70	78	10.8	73	67	8.6	30 - 130	30
1,3-Dichlorobenzene	ND	230	49	54	9.7	57	46	21.4	30 - 130	30
1,4-Dichlorobenzene	ND	230	53	57	7.3	62	48	25.5	30 - 130	30
2,4,5-Trichlorophenol	ND	230	78	88	12.0	87	79	9.6	30 - 130	30
2,4,6-Trichlorophenol	ND	130	73	81	10.4	78	73	6.6	30 - 130	30
2,4-Dichlorophenol	ND	130	71	78	9.4	75	67	11.3	30 - 130	30
2,4-Dimethylphenol	ND	230	72	77	6.7	81	72	11.8	30 - 130	30
2,4-Dinitrophenol	ND	230	<10	10	NC	41	46	11.5	30 - 130	30
2,4-Dinitrotoluene	ND	130	83	96	14.5	90	83	8.1	30 - 130	30
2,6-Dinitrotoluene	ND	130	79	94	17.3	85	81	4.8	30 - 130	30
2-Chloronaphthalene	ND	230	66	73	10.1	72	64	11.8	30 - 130	30
2-Chlorophenol	ND	230	63	72	13.3	72	58	21.5	30 - 130	30
2-Methylnaphthalene	ND	230	59	67	12.7	66	57	14.6	30 - 130	30
2-Methylphenol (o-cresol)	ND	230	76	84	10.0	82	68	18.7	30 - 130	30
2-Nitroaniline	ND	330	119	134	11.9	125	119	4.9	30 - 130	30
2-Nitrophenol	ND	230	79	86	8.5	92	73	23.0	30 - 130	30
3&4-Methylphenol (m&p-cresol)	ND	230	70	80	13.3	79	66	17.9	30 - 130	30
3,3'-Dichlorobenzidine	ND	130	102	109	6.6	112	108	3.6	30 - 130	30
3-Nitroaniline	ND	330	87	101	14.9	96	89	7.6	30 - 130	30
4,6-Dinitro-2-methylphenol	ND	230	30	28	6.9	61	62	1.6	30 - 130	30
4-Bromophenyl phenyl ether	ND	230	73	83	12.8	75	71	5.5	30 - 130	30
4-Chloro-3-methylphenol	ND	230	79	91	14.1	84	77	8.7	30 - 130	30
4-Chloroaniline	ND	230	72	80	10.5	80	74	7.8	30 - 130	30
4-Chlorophenyl phenyl ether	ND	230	69	80	14.8	75	69	8.3	30 - 130	30
4-Nitroaniline	ND	230	85	96	12.2	88	83	5.8	30 - 130	30
4-Nitrophenol	ND	230	88	99	11.8	92	85	7.9	30 - 130	30
Acenaphthene	ND	230	69	77	11.0	76	69	9.7	30 - 130	30
Acenaphthylene	ND	130	66	74	11.4	74	69	7.0	30 - 130	30
Acetophenone	ND	230	61	70	13.7	70	57	20.5	30 - 130	30
Aniline	ND	330	49	58	16.8	61	50	19.8	30 - 130	30
Anthracene	ND	230	72	81	11.8	75	72	4.1	30 - 130	30
Benz(a)anthracene	ND	230	74	85	13.8	73	70	4.2	30 - 130	30
Benzidine	ND	330	69	65	6.0	61	57	6.8	30 - 130	30
Benzo(a)pyrene	ND	130	76	86	12.3	72	71	1.4	30 - 130	30

QA/QC Data

SDG I.D.: GCD00880

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Benzo(b)fluoranthene	ND	160	73	83	12.8	71	66	7.3	30 - 130	30
Benzo(ghi)perylene	ND	230	65	73	11.6	64	60	6.5	30 - 130	30
Benzo(k)fluoranthene	ND	230	82	94	13.6	76	76	0.0	30 - 130	30
Benzoic Acid	ND	330	<10	<10	NC	<10	23	NC	30 - 130	30
Benzyl butyl phthalate	ND	230	86	98	13.0	87	81	7.1	30 - 130	30
Bis(2-chloroethoxy)methane	ND	230	61	68	10.9	67	56	17.9	30 - 130	30
Bis(2-chloroethyl)ether	ND	130	54	60	10.5	60	49	20.2	30 - 130	30
Bis(2-chloroisopropyl)ether	ND	230	45	50	10.5	51	41	21.7	30 - 130	30
Bis(2-ethylhexyl)phthalate	ND	230	93	103	10.2	86	79	8.5	30 - 130	30
Carbazole	ND	230	73	84	14.0	77	72	6.7	30 - 130	30
Chrysene	ND	230	74	84	12.7	71	69	2.9	30 - 130	30
Dibenz(a,h)anthracene	ND	130	75	85	12.5	79	75	5.2	30 - 130	30
Dibenzofuran	ND	230	68	77	12.4	74	68	8.5	30 - 130	30
Diethyl phthalate	ND	230	78	90	14.3	83	77	7.5	30 - 130	30
Dimethylphthalate	ND	230	72	83	14.2	77	71	8.1	30 - 130	30
Di-n-butylphthalate	ND	670	81	91	11.6	84	78	7.4	30 - 130	30
Di-n-octylphthalate	ND	230	85	96	12.2	86	82	4.8	30 - 130	30
Fluoranthene	ND	230	72	82	13.0	67	66	1.5	30 - 130	30
Fluorene	ND	230	71	80	11.9	77	71	8.1	30 - 130	30
Hexachlorobenzene	ND	130	76	82	7.6	77	74	4.0	30 - 130	30
Hexachlorobutadiene	ND	230	61	66	7.9	69	56	20.8	30 - 130	30
Hexachlorocyclopentadiene	ND	230	50	56	11.3	52	40	26.1	30 - 130	30
Hexachloroethane	ND	130	55	60	8.7	62	49	23.4	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	230	71	81	13.2	69	66	4.4	30 - 130	30
Isophorone	ND	130	62	69	10.7	68	57	17.6	30 - 130	30
Naphthalene	ND	230	58	64	9.8	66	55	18.2	30 - 130	30
Nitrobenzene	ND	130	63	72	13.3	74	60	20.9	30 - 130	30
N-Nitrosodimethylamine	ND	230	44	47	6.6	54	42	25.0	30 - 130	30
N-Nitrosodi-n-propylamine	ND	130	65	76	15.6	73	60	19.5	30 - 130	30
N-Nitrosodiphenylamine	ND	130	71	83	15.6	77	71	8.1	30 - 130	30
Pentachloronitrobenzene	ND	230	77	90	15.6	83	78	6.2	30 - 130	30
Pentachlorophenol	ND	230	50	51	2.0	55	60	8.7	30 - 130	30
Phenanthrene	ND	130	70	78	10.8	70	67	4.4	30 - 130	30
Phenol	ND	230	69	79	13.5	78	65	18.2	30 - 130	30
Pyrene	ND	230	72	82	13.0	68	67	1.5	30 - 130	30
Pyridine	ND	230	30	32	6.5	39	32	19.7	30 - 130	30
% 2,4,6-Tribromophenol	84	%	85	99	15.2	87	83	4.7	30 - 130	30
% 2-Fluorobiphenyl	66	%	62	68	9.2	69	59	15.6	30 - 130	30
% 2-Fluorophenol	55	%	56	63	11.8	63	51	21.1	30 - 130	30
% Nitrobenzene-d5	63	%	61	69	12.3	70	57	20.5	30 - 130	30
% Phenol-d5	60	%	61	70	13.7	69	56	20.8	30 - 130	30
% Terphenyl-d14	72	%	65	74	12.9	67	62	7.8	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 476485 (ug/kg), QC Sample No: CD01153 (CD00881)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	5.0	105	106	0.9	89	92	3.3	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	101	101	0.0	95	96	1.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	101	102	1.0	97	95	2.1	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	100	101	1.0	89	87	2.3	70 - 130	30
1,1-Dichloroethane	ND	5.0	100	98	2.0	94	92	2.2	70 - 130	30

QA/QC Data

SDG I.D.: GCD00880

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,1-Dichloroethene	ND	5.0	98	99	1.0	97	94	3.1	70 - 130	30
1,1-Dichloropropene	ND	5.0	102	107	4.8	98	96	2.1	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	100	103	3.0	96	101	5.1	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	99	101	2.0	95	96	1.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	100	104	3.9	99	102	3.0	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	100	105	4.9	102	102	0.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	92	94	2.2	83	85	2.4	70 - 130	30
1,2-Dibromoethane	ND	5.0	99	101	2.0	84	86	2.4	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	98	102	4.0	98	100	2.0	70 - 130	30
1,2-Dichloroethane	ND	5.0	100	99	1.0	89	87	2.3	70 - 130	30
1,2-Dichloropropane	ND	5.0	101	103	2.0	91	90	1.1	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	100	106	5.8	102	102	0.0	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	100	103	3.0	101	100	1.0	70 - 130	30
1,3-Dichloropropane	ND	5.0	98	100	2.0	87	87	0.0	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	99	102	3.0	99	99	0.0	70 - 130	30
1,4-dioxane	ND	100	96	112	15.4	87	110	23.4	70 - 130	30
2,2-Dichloropropane	ND	5.0	102	101	1.0	92	92	0.0	70 - 130	30
2-Chlorotoluene	ND	5.0	101	105	3.9	102	102	0.0	70 - 130	30
2-Hexanone	ND	25	88	90	2.2	72	70	2.8	70 - 130	30
2-Isopropyltoluene	ND	5.0	97	102	5.0	99	99	0.0	70 - 130	30
4-Chlorotoluene	ND	5.0	97	104	7.0	101	100	1.0	70 - 130	30
4-Methyl-2-pentanone	ND	25	98	97	1.0	83	81	2.4	70 - 130	30
Acetone	ND	10	124	115	7.5	81	77	5.1	70 - 130	30
Acrylonitrile	ND	5.0	95	92	3.2	79	79	0.0	70 - 130	30
Benzene	ND	1.0	99	103	4.0	93	91	2.2	70 - 130	30
Bromobenzene	ND	5.0	101	104	2.9	99	100	1.0	70 - 130	30
Bromochloromethane	ND	5.0	103	97	6.0	91	89	2.2	70 - 130	30
Bromodichloromethane	ND	5.0	101	103	2.0	90	89	1.1	70 - 130	30
Bromoform	ND	5.0	102	104	1.9	82	84	2.4	70 - 130	30
Bromomethane	ND	5.0	101	101	0.0	91	88	3.4	70 - 130	30
Carbon Disulfide	ND	5.0	102	102	0.0	94	94	0.0	70 - 130	30
Carbon tetrachloride	ND	5.0	103	103	0.0	96	96	0.0	70 - 130	30
Chlorobenzene	ND	5.0	99	103	4.0	87	88	1.1	70 - 130	30
Chloroethane	ND	5.0	99	98	1.0	93	92	1.1	70 - 130	30
Chloroform	ND	5.0	99	96	3.1	92	90	2.2	70 - 130	30
Chloromethane	ND	5.0	86	88	2.3	81	79	2.5	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	102	99	3.0	94	91	3.2	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	100	100	0.0	86	85	1.2	70 - 130	30
Dibromochloromethane	ND	3.0	107	109	1.9	90	94	4.3	70 - 130	30
Dibromomethane	ND	5.0	99	101	2.0	88	85	3.5	70 - 130	30
Dichlorodifluoromethane	ND	5.0	100	101	1.0	94	92	2.2	70 - 130	30
Ethylbenzene	ND	1.0	102	107	4.8	92	92	0.0	70 - 130	30
Hexachlorobutadiene	ND	5.0	106	113	6.4	109	111	1.8	70 - 130	30
Isopropylbenzene	ND	1.0	99	105	5.9	104	103	1.0	70 - 130	30
m&p-Xylene	ND	2.0	100	104	3.9	90	90	0.0	70 - 130	30
Methyl ethyl ketone	ND	5.0	92	89	3.3	76	76	0.0	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	90	85	5.7	81	78	3.8	70 - 130	30
Methylene chloride	ND	5.0	98	94	4.2	91	89	2.2	70 - 130	30
Naphthalene	ND	5.0	99	102	3.0	96	100	4.1	70 - 130	30
n-Butylbenzene	ND	1.0	101	107	5.8	104	104	0.0	70 - 130	30
n-Propylbenzene	ND	1.0	101	107	5.8	102	103	1.0	70 - 130	30
o-Xylene	ND	2.0	100	105	4.9	91	92	1.1	70 - 130	30
p-Isopropyltoluene	ND	1.0	101	109	7.6	105	105	0.0	70 - 130	30

QA/QC Data

SDG I.D.: GCD00880

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
sec-Butylbenzene	ND	1.0	104	112	7.4	108	109	0.9	70 - 130	30
Styrene	ND	5.0	101	105	3.9	87	87	0.0	70 - 130	30
tert-Butylbenzene	ND	1.0	100	106	5.8	103	104	1.0	70 - 130	30
Tetrachloroethene	ND	5.0	107	113	5.5	99	97	2.0	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	93	87	6.7	77	75	2.6	70 - 130	30
Toluene	ND	1.0	102	105	2.9	95	92	3.2	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	86	81	6.0	77	74	4.0	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	98	97	1.0	81	80	1.2	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	97	100	3.0	84	85	1.2	70 - 130	30
Trichloroethene	ND	5.0	104	108	3.8	98	96	2.1	70 - 130	30
Trichlorofluoromethane	ND	5.0	91	92	1.1	89	89	0.0	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	103	103	0.0	100	100	0.0	70 - 130	30
Vinyl chloride	ND	5.0	94	96	2.1	91	89	2.2	70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	100	100	0.0	99	100	1.0	70 - 130	30
% Bromofluorobenzene	96	%	99	97	2.0	98	97	1.0	70 - 130	30
% Dibromofluoromethane	95	%	98	96	2.1	105	98	6.9	70 - 130	30
% Toluene-d8	97	%	100	98	2.0	99	97	2.0	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%.

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
April 29, 2019

Monday, April 29, 2019

Criteria: NY: 375IND

State: NY

Sample Criteria Exceedances Report

GCD00880 - WALDENE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

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.



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Analysis Comments

April 29, 2019

SDG I.D.: GCD00880

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

SVOA Narration

CHEM19 04/25/19-1: CD00880

The following Initial Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.055 (0.1), Hexachlorobenzene 0.090 (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 0.066 (0.1), Hexachlorobenzene 0.088 (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

CHEM18 04/25/19-2: CD00881

The following Initial Calibration compounds did not meet RSD% criteria: Acetone 19% (15%), Bromoform 17% (15%), Chloroethane 17% (15%), Methyl Ethyl Ketone 19% (15%)

The following Initial Calibration compounds did not meet maximum RSD% criteria: 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

April 29, 2019

SDG I.D.: GCD00880

The samples in this delivery group were received at 1.3°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

