

December 20, 2019

Mr. Ken Kearny,
Kearney Realty & Development Group
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Baldwin Place, New York 10505
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**Re: Subsurface Investigation Report
Commerce Square – Former Harrison Radiator Factory Building #3
Washburn and South Streets, Lockport, New York 14094**

Dear Mr. Kearny:

The following letter report documents the results of our “Subsurface Investigation” (SI) of the above referenced building. That initial purpose of the “SI” was to locate likely sources of contamination under the building (i.e. sewer mains, floor drain piping, force mains, dry wells, etc.) and ensure impacts associated with these potential sources is manageable via the states Brownfield Program.

Building History

Briefly our historical review revealed Herbert Harrison started the factory in a small building that sat at the west end of building #3 in 1910 manufacturing radiators of his own patented design for GM. He expanded quickly building the north adjacent identical twin in 1915 and completing our building #3 circa 1920, after razing the small machine shop he started in as well as a few homes and a school next door. The 400 x 145 3-story building included a three-story central galley including a gantry crane used to carry heavy weight across the factory as well as to upper floors. Other than two large pots sunken into the floor slab, very little evidence of past building uses were identified as a result of inspection. General Motors closed the factory in 1986 and hired O’Brien and Gere to complete a factory clean out in 1987 which reportedly in addition to removing all hazardous materials associated with their operation also cleaned floor drains and sumps as well as removed asbestos from the building. Our inspection revealed large quantities of asbestos remain in the building. In fact, a small cogeneration plant in the southwest corner of the building contains large quantities of friable thermal system insulation as well as floor tile and other materials delineated in the attached Asbestos Survey.

Current Building Uses

Since 1987 the buildings been occupied by various tenants simultaneously conducting various activities mostly centered around storage. Our site visit revealed the building is being used as a public storage facility and being used to store everything from lead ingots to bulk containers of hydraulic fluid to the local municipal snow plow trucks. An approximately 60’ x 120’ area in the southeast corner of the building has been recently renovated with a new slab over the old one, glass curtain walls separating the space from the rest of the factory as well as new wiring, bathrooms and paint and is now being used weekends as a farm stand.

Preliminary Assessment Purpose/Scope

As noted earlier, our original intention was to conduct a comprehensive geophysical survey using magnetometry, radio waves and radar to locate subsurface features, identify whether they have the potential to have leaked such as dry wells, sewer lines and floor drains, and select the more discerning features for further investigation by advancing soil probes adjacent them to facilitate the collection of soil cores from beneath these entities and attempt to locate the source of reported 3,000 ppb of halogens measured in groundwater under the factory

Field Measurements

During our initial walk thru it was clear that a targeted assessment was impossible, but access between bays would allow for some limited testing and as such jade selected seven random locations to bore through the slab and first measure its thickness. As a result of that effort, in five locations the concrete was identified 7” thick, in one location 9” and unexpectedly at TP-1 in the northeast corner, concrete was found to be 1” thick and a void existed beneath the slab.

A thick layer of ash and cinder was identified in some probe locations, in other locations a medium grained sand was identified. Beneath these bedding materials the expected heavy clayey silt formation was encountered. The formation appeared to maintain much of its original moisture content despite 100 years of protection from precipitation indicating moisture sources under the slab, possibly sand lens close to grade.

After collecting the soil samples from beneath the bedding materials, Jade collected soil gas samples in the vicinity of the soil samples by again coring ½” holes through the slab, feeding a 3/8” Teflon tube fitted with a polyethylene air sample screen down through the core and attempting to set that screen just below the slab in order to draw the sample from the soil/concrete interface where volatiles tend to collect. In all, five sub-slab vapor samples were collected and analyzed for VOCs analysis via TO+15. To ensure air was not drawn through the core hole between the tube and concrete the hole was packed tightly with natural clay, mounded atop the slab, wrapped in plastic wrap and monitored during testing.

Sample Analysis

Jade ordered soil samples analyzed in accordance with general EPA assessment protocols including metals, PCBs, Pesticides PNAs and VOCs. The soil analysis revealed metals and PAHs from the ash are leaching down into the soil at levels exceeding the BCP Restricted Residential Soil Clean Up Objectives (RRSCOs). The soil analysis also identified VOCs in soil near the sunken pot TP-7 at elevated concentrations within RRSCOs, but indicative of a nearby source worthy of additional investigation.

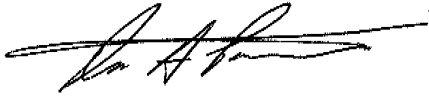
Our sub-slab vapor analysis reveals chlorinated solvent contamination is a sitewide contaminant condition and that additional investigation will be necessary to identify the sources of these vapors under the building as a result of Harrison Radiators past use of solvents when operating. After remediating the soil sources under the building, vapor intrusion mitigation will be required which will be costly based on the size of the structure. Even the simplest soil gas mitigation effort including repairing the existing slab and sealing it with RetroCoat will likely approach \$1,000,000.

Conclusions

Our limited assessment clearly demonstrates that past uses of this property have resulted in environmental impacts that will add millions to any redevelopment budget in expenditures to investigate and mitigate contamination. Additionally, according to the NYSDEC groundwater beneath the factory contains over 3000 ppb of volatile solvent. Contamination at that level is likely producing a plume with the potential to exposure the population that occupies or frequents buildings down gradient of this factory to hazardous vapors.

We appreciate the opportunity to propose our services. If you have any questions or comments, please do not hesitate to call.

Sincerely,
Jade Environmental, Inc.

A handwritten signature in black ink, appearing to read 'Dave Pelletier', with a long horizontal stroke extending to the right.

Dave Pelletier, P. E.
President

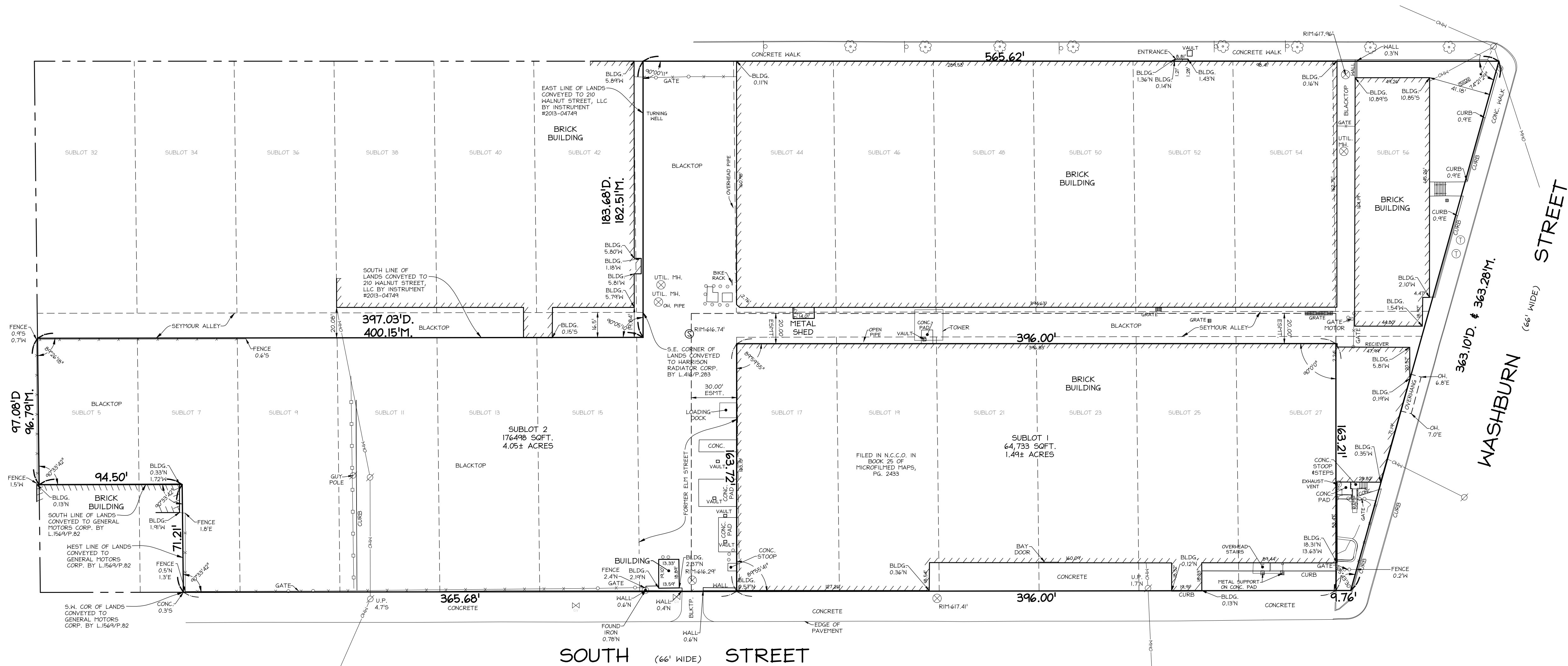
Enc.



LOCUST STREET
(64.5' WIDE)

WALNUT STREET
(66' WIDE)

WASHBURN STREET
(66' WIDE)



LEGEND

- ⊕ SANITARY MANHOLE
- ⊕ TELEPHONE MANHOLE
- ⊕ UNKNOWN MANHOLE
- ⊕ CLEANOUT
- ⊕ WELL
- ⊕ MONITORING WELL
- ⊕ TRAFFIC SIGNAL POLE
- ⊕ VALVE
- ⊕ GAS VALVE
- ⊕ WATER VALVE
- ⊕ FIRE HYDRANT
- ⊕ SPRINKLER
- ⊕ UTILITY POLE
- ⊕ GUY ANCHOR
- ⊕ DRAINAGE INVERT
- ⊕ VENT
- ⊕ HAND HOLE
- ⊕ BOLLARD
- ⊕ FLAG POLE
- ⊕ SINGLE POST SIGN
- ⊕ IRON (AS NOTED)
- ⊕ TREE

NOTES

- ELEVATIONS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- THE LOCATION OF ANY UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE AND ALL UTILITIES MAY NOT BE SHOWN. PRIOR TO ANY CONSTRUCTION ACTIVITIES, ALL UTILITY COMPANIES SHOULD BE NOTIFIED IN ORDER TO VERIFY OR AMEND THEIR LOCATIONS AND/OR EXISTENCE. FOR ASSISTANCE CALL UPD AT 1-800-462-7962.
- A DESIGN TICKET WAS CREATED FOR THIS PROJECT AT DIGSAFE1.NEWTORK.COM.
TICKET #1219-541-005:
NATIONAL GRID - WEST - ELECTRIC; HAS RESPONDED, STATES NO UNDERGROUND FACILITIES ON PREMISES.
VERIZON - BUFFALO; HAS NOT RESPONDED.
NYSEG LOCKPORT ELECTRIC; HAS NOT RESPONDED.
NYSEG LOCKPORT GAS; HAS NOT RESPONDED.
NYS DOT BUFFALO REGION 5; HAS NOT RESPONDED.
TIME WARNER CABLE - BUFFALO; HAS RESPONDED, STATES NO UNDERGROUND FACILITIES ON PREMISES.
CITY OF LOCKPORT; HAS NOT RESPONDED.



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NUSSEBAUMER & CLARKE INC.
ENGINEERS AND SURVEYORS
EST. 1933

This survey was prepared without the benefit of an abstract of title and is subject to any state of facts that may be revealed by an examination of such.

Unauthorized alterations or additions to any survey, drawing, design, specification, plan or report is a violation of section 7209, provision 2 of the New York State Education Law.

2-LOT MINOR SUBDIVISION
160 Washburn Street
Part of Lot 8, 10 & 12, Sec. 15, Township 14, Range 6
Holland Land Company's Survey
City of Lockport
County of Niagara, State of New York
Date of Survey: 12/23/19

Scale: 1" = 40'

Project No.: 1935-0035

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HARRISON RADIATOR PLANT BUILDING #2

ELEVATED WATER TANK

SEYMOUR

UPPER FLOORS CONNECTED

ALLEY

UPPER FLOORS CONNECTED

GARAGE DOOR

2,500 GAL DETERGENT UST CLOSED 1960

TP-3 (VAPOR)

TP-1 (VAPOR)

TP-4 (VAPOR)

TP-4 (1'-2')

TP-3 (1'-2')

TP-1 (1'-2')

LOADING DOCK
4 PIERS DEEP

PEAKED GLASS SUNROOF OVER MAIN GALLEY

HARRISSON RADIATOR PLANT #3

RAMP

COGEN PLANT

STAIRWELL TO CELLAR

TP-6 (VAPOR)

TP-5 (1'-2')

TP-6 (1'-2')

TP-7 (1'-2')

TP-5 (VAPOR)

UNKNOWN POT

UNKNOWN POT

FARM MARKET SPACE

(WATER SAMPLED - NO CONT.)

REMNANT STEAM AND ELECTRICAL GENERATORS

GARAGE DOOR

POTENTIAL PARKING SPOTS

POTENTIAL PARKING SPOTS

STAIRWELLS

SOUTH STREET

WASHBURN STREET

THREE (3) 20,000 GAL FUEL OIL USTS REMOVED 1987
2010 PHASE II INDICATES REMEDIATION REQUIRED

POSSIBLE LIMITS OF RESIDUAL PAH
CONTAMINATION MEASURED.
ASH AND CINDER NOTED DURING
SAMPLING AT TP-4 AND TP-6

SVOC CONTAMINATION LIMITS

BLDG #3 HARRISON RADIATOR PLANT

210 WALNUT STREET [A.K.A. CTY HWY 31]

LOCKPORT, NEW YORK 14094

JADE ENVIRONMENTAL, INC. DEC 20, 2019

NOT TO SCALE

HARRISON RADIATOR PLANT BUILDING #2

PCE - 301
TCE - 65.2
cDCE - 19.5

PCE - 2,310
TCE - 607
cDCE - 6.38

PCE - 29.5
TCE - 259.0
cDCE - 82.4

SEYMOUR

UPPER FLOORS CONNECTED

ALLEY

UPPER FLOORS CONNECTED

ELEVATED WATER TANK

GARAGE DOOR

2,500 GAL DETERGENT UST CLOSED 1960S

TP-3 (VAPOR)

TP-1 (VAPOR)

TP-4 (VAPOR)

TP-4 (1'-2')

TP-3 (1'-2')

TP-1 (1'-2')

LOADING DOCK
4 PIERS DEEP

PEAKED GLASS SUNROOF OVER MAIN GALLEY

HARRISON RADIATOR PLANT #3

RAMP

COGEN PLANT

STAIRWELL TO CELLAR

TP-6 (VAPOR)

TP-5 (1'-2')

TP-6 (1'-2')

TP-7 (1'-2')

TP-5 (VAPOR)

REMNAINT STEAM AND ELECTRICAL GENERATORS

FARM MARKET SPACE

GARAGE DOOR

POTENTIAL PARKING SPOTS

POTENTIAL PARKING SPOTS

STAIRWELLS

PCE - 480
TCE - 505
cDCE - 0.92

SOUTH STREET

PCE - 307
TCE - 1,040
cDCE - 9.99

WASHBURN STREET

THREE (3) 20,000 GAL FUEL OIL USTS REMOVED 1987
2010 PHASE II INDICATES REMEDIATION REQUIRED

SOLVENT VAPOR MAP

BLDG #3 HARRISON RADIATOR PLANT

210 WALNUT STREET [A.K.A. CTY HWY 31]

LOCKPORT, NEW YORK 14094

JADE ENVIRONMENTAL, INC. DEC 20, 2019

NOT TO SCALE

Soil Sample Analysis Summary Table

Phoenix Labs, Inc. 587 E Middle Tpke P.O. Box 370 Manchester, CT 06040 (860) 645-1102			Sample Id		CE83263		CE83264		CE83265		CE83266		CE83267		CE83268		Unrestricted Use (UUSCO)	Restricted Res. (RRUSCO)
LOCKPORT BLDG #3			Collect Date		12/8/2019		12/8/2019		12/8/2019		12/8/2019		12/8/2019		12/8/2019			
			Client Id		TP-1 (1`-2`)		TP-3 (1`-2`)		TP-7 (1`-2`)		TP-4 (1`-2`)		TP-5 (1`-2`)		TP-6 (1`-2`)			
			Matrix		Soil		Soil		Soil		Soil		Soil		Soil			
			CAS	Units	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL		
Metals, Total																		
Arsenic	7440-38-2	mg/Kg	3.9	0.78	8.15	0.76	5.4	0.84	8.54	0.71	6.79	0.76	4.96	0.72	13	16		
Barium	7440-39-3	mg/Kg	139	0.39	160	0.38	111	0.42	169	0.35	149	0.38	453	0.36	350	400		
Cadmium	7440-43-9	mg/Kg	0.49	0.39	1.13	0.38	1.28	0.42	0.43	0.35	< 0.38	0.38	1.12	0.36	2.5	4.3		
Chromium	7440-47-3	mg/Kg	27.1	0.39	27.7	0.38	10.1	0.42	9.34	0.35	12.7	0.38	9.12	0.36	30	180		
Lead	7439-92-1	mg/Kg	18.8	0.39	155	0.38	79.1	0.42	370	0.35	68.8	0.38	541	0.36	63	400		
Mercury	7439-97-6	mg/Kg	0.18	0.03	0.13	0.03	0.26	0.03	0.08	0.03	< 0.03	0.03	0.13	0.03	0.18	0.81		
Selenium	7782-49-2	mg/Kg	< 1.6	1.6	< 1.5	1.5	< 1.7	1.7	< 1.4	1.4	< 1.5	1.5	< 1.4	1.4	3.9	180		
Silver	7440-22-4	mg/Kg	< 0.39	0.39	< 0.38	0.38	< 0.42	0.42	< 0.35	0.35	< 0.38	0.38	< 0.36	0.36	2	180		
PCBs By SW8082A																		
PCB-1016	12674-11-2	ug/Kg	< 400	400	< 380	380	< 440	440	< 380	380	< 390	390	< 370	370	100	1000		
PCB-1221	11104-28-2	ug/Kg	< 400	400	< 380	380	< 440	440	< 380	380	< 390	390	< 370	370	100	1000		
PCB-1232	11141-16-5	ug/Kg	< 400	400	< 380	380	< 440	440	< 380	380	< 390	390	< 370	370	100	1000		
PCB-1242	53469-21-9	ug/Kg	< 400	400	< 380	380	< 440	440	< 380	380	< 390	390	< 370	370	100	1000		
PCB-1248	12672-29-6	ug/Kg	< 400	400	< 380	380	< 440	440	< 380	380	< 390	390	< 370	370	100	1000		
PCB-1254	11097-69-1	ug/Kg	< 400	400	< 380	380	< 440	440	< 380	380	< 390	390	< 370	370	100	1000		
PCB-1260	11096-82-5	ug/Kg	< 400	400	< 380	380	< 440	440	< 380	380	< 390	390	< 370	370	100	1000		
PCB-1262	37324-23-5	ug/Kg	< 400	400	< 380	380	< 440	440	< 380	380	< 390	390	< 370	370	100	1000		
PCB-1268	11100-14-4	ug/Kg	< 400	400	< 380	380	< 440	440	< 380	380	< 390	390	< 370	370	100	1000		

Soil Sample Analysis Summary Table Page 2 of 3

Polynuclear Aromatic HC By SW8270D															
2-Methylnaphthalene	91-57-6	ug/Kg	< 280	280	< 270	270	< 310	310	< 270	270	< 270	270	1,900	250	
Acenaphthene	83-32-9	ug/Kg	< 280	280	< 270	270	< 310	310	< 270	270	< 270	270	2,200	250	20000 100000
Acenaphthylene	208-96-8	ug/Kg	< 280	280	< 270	270	< 310	310	< 270	270	< 270	270	< 250	250	100,000 100,000
Anthracene	120-12-7	ug/Kg	< 280	280	360	270	< 310	310	530	270	< 270	270	3,400	250	100,000 100,000
Benz(a)anthracene	56-55-3	ug/Kg	< 280	280	1,400	270	< 310	310	1,700	270	< 270	270	3,200	250	1000 1000
Benzo(a)pyrene	50-32-8	ug/Kg	< 280	280	1,100	270	< 310	310	1,400	270	< 270	270	1,900	250	1000 1000
Benzo(b)fluoranthene	205-99-2	ug/Kg	< 280	280	1,100	270	< 310	310	1,200	270	< 270	270	1,300	250	1000 1000
Benzo(ghi)perylene	191-24-2	ug/Kg	< 280	280	600	270	< 310	310	730	270	< 270	270	580	250	100,000 100,000
Benzo(k)fluoranthene	207-08-9	ug/Kg	< 280	280	950	270	< 310	310	1,200	270	< 270	270	1,600	250	800 3,900
Chrysene	218-01-9	ug/Kg	< 280	280	1,500	270	330	310	1,700	270	< 270	270	2,700	250	1000 3,900
Dibenz(a,h)anthracene	53-70-3	ug/Kg	< 280	280	< 270	270	< 310	310	< 270	270	< 270	270	< 250	250	330 330
Fluoranthene	206-44-0	ug/Kg	< 280	280	2,500	270	640	310	3,100	270	500	270	5,100	250	100,000 100,000
Fluorene	86-73-7	ug/Kg	< 280	280	< 270	270	< 310	310	< 270	270	< 270	270	2,200	250	30,000 100,000
Indeno(1,2,3-cd)pyrene	193-39-5	ug/Kg	< 280	280	620	270	< 310	310	830	270	< 270	270	750	250	500 500
Naphthalene	91-20-3	ug/Kg	< 280	280	< 270	270	< 310	310	< 270	270	< 270	270	1,400	250	12,000 100,000
Phenanthrene	85-01-8	ug/Kg	< 280	280	1,300	270	490	310	2,500	270	370	270	13,000	2,500	100,000 100,000
Pyrene	129-00-0	ug/Kg	< 280	280	2,100	270	540	310	2,800	270	380	270	4,300	250	100,000 100,000

Halogenated Volatiles By SW8260C															
1,1,1,2-Tetrachloroethane	630-20-6	ug/Kg	< 6.1	6.1	< 5.8	5.8	< 6.7	6.7	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6	
1,1,1-Trichloroethane	71-55-6	ug/Kg	< 6.1	6.1	< 5.8	5.8	< 6.7	6.7	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6	680 100000
1,1,2,2-Tetrachloroethane	79-34-5	ug/Kg	< 6.1	6.1	< 5.8	5.8	< 6.7	6.7	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6	
1,1,2-Trichloroethane	79-00-5	ug/Kg	< 6.1	6.1	< 5.8	5.8	< 6.7	6.7	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6	
1,1-Dichloroethane	75-34-3	ug/Kg	< 6.1	6.1	< 5.8	5.8	< 6.7	6.7	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6	270 26000
1,1-Dichloroethene	75-35-4	ug/Kg	< 6.1	6.1	< 5.8	5.8	< 6.7	6.7	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6	330 100000
1,2,3-Trichloropropane	96-18-4	ug/Kg	< 6.1	6.1	< 5.8	5.8	< 6.7	6.7	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6	
1,2-Dichlorobenzene	95-50-1	ug/Kg	< 6.1	6.1	< 5.8	5.8	< 6.7	6.7	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6	1100 100000
1,2-Dichloroethane	107-06-2	ug/Kg	< 6.1	6.1	< 5.8	5.8	< 6.7	6.7	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6	20 3100
1,2-Dichloropropane	78-87-5	ug/Kg	< 6.1	6.1	< 5.8	5.8	< 6.7	6.7	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6	
1,3-Dichlorobenzene	541-73-1	ug/Kg	< 6.1	6.1	< 5.8	5.8	< 6.7	6.7	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6	2400 49000
1,4-Dichlorobenzene	106-46-7	ug/Kg	< 6.1	6.1	< 5.8	5.8	< 6.7	6.7	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6	1800 13000

Halogenated Volatiles By SW8260C (continued) Page 3 of 3

Bromobenzene	108-86-1	ug/Kg	< 6.1	6.1	< 5.8	5.8	< 6.7	6.7	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6		
Bromodichloromethane	75-27-4	ug/Kg	< 6.1	6.1	< 5.8	5.8	< 6.7	6.7	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6		
Bromoform	75-25-2	ug/Kg	< 6.1	6.1	< 5.8	5.8	< 6.7	6.7	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6		
Bromomethane	74-83-9	ug/Kg	< 6.1	6.1	< 5.8	5.8	< 6.7	6.7	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6		
Carbon tetrachloride	56-23-5	ug/Kg	< 6.1	6.1	< 5.8	5.8	< 6.7	6.7	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6	760	2400
Chlorobenzene	108-90-7	ug/Kg	< 6.1	6.1	< 5.8	5.8	< 6.7	6.7	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6	1100	100000
Chloroethane	75-00-3	ug/Kg	< 6.1	6.1	< 5.8	5.8	< 6.7	6.7	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6		
Chloroform	67-66-3	ug/Kg	< 6.1	6.1	< 5.8	5.8	< 6.7	6.7	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6	370	49000
Chloromethane	74-87-3	ug/Kg	< 6.1	6.1	< 5.8	5.8	< 6.7	6.7	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6		
cis-1,2-Dichloroethene	156-59-2	ug/Kg	< 6.1	6.1	< 5.8	5.8	< 6.7	6.7	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6	250	100000
cis-1,3-Dichloropropene	10061-01-5	ug/Kg	< 6.1	6.1	< 5.8	5.8	< 6.7	6.7	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6		
Dibromochloromethane	124-48-1	ug/Kg	< 6.1	6.1	< 5.8	5.8	< 6.7	6.7	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6		
Dibromomethane	74-95-3	ug/Kg	< 6.1	6.1	< 5.8	5.8	< 6.7	6.7	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6		
Dichlorodifluoromethane	75-71-8	ug/Kg	< 6.1	6.1	< 5.8	5.8	< 6.7	6.7	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6		
Methylene chloride	75-09-2	ug/Kg	< 6.1	6.1	6.9	5.8	16	6.7	9.1	5.8	< 5.9	5.9	12	5.6	50	100000
Tetrachloroethene	127-18-4	ug/Kg	< 6.1	6.1	< 5.8	5.8	1,100	420	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6	1300	19000
trans-1,2-Dichloroethene	156-60-5	ug/Kg	< 6.1	6.1	< 5.8	5.8	< 6.7	6.7	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6	190	100000
trans-1,3-Dichloropropene	10061-02-6	ug/Kg	< 6.1	6.1	< 5.8	5.8	< 6.7	6.7	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6		
Trichloroethene	79-01-6	ug/Kg	< 6.1	6.1	< 5.8	5.8	260	250	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6	470	21000
Trichlorofluoromethane	75-69-4	ug/Kg	< 6.1	6.1	< 5.8	5.8	< 6.7	6.7	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6		
Vinyl chloride	75-01-4	ug/Kg	< 6.1	6.1	< 5.8	5.8	< 6.7	6.7	< 5.8	5.8	< 5.9	5.9	< 5.6	5.6	20	900

	Constituent quantified in sample by lab
	Exceed UUSCO
	Exceed RRUSCO up to an order of magnitude (OOM)
	Exceeds RRUSCO by an OOM but less than 2 OOM
	Exceeds RRUSCO by two OOM or greater
	Part 375 Qualifier
	Will require clean up or apply controls (i.e. eng caps/deed restrictions)
	GW threat and possible hazwas conditions - mitigation required
	Severe GW threat and hazwas conditions - consider interim remedial measures

Phoenix Labs
587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06040
(860) 645-1102

P.O. Box 370 Manchester, CT 06040 (860) 645-1102			Lab Id		CE83270		CE83271		CE83272		CE83273		CE83274		NYSDOH	
			Collect Date		12/8/2019		12/8/2019		12/8/2019		12/8/2019		12/8/2019		Action	
			Client Id		TP-5		TP-6		TP-4		TP-1		TP-3		Level	
			Matrix		Air		Air		Air		Air		Air		µg/m ³	
LOCKPORT BLDG #3																
			CAS	Units	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL		
Volatiles (TO15) By TO15																
1,1,1,2-Tetrachloroethane			630-20-6	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 5.00	5.00	100	
1,1,1-Trichloroethane			71-55-6	ug/m3	14.2	1.00	2.1	1.00	< 1.00	1.00	< 1.00	1.00	< 5.00	5.00		
1,1,2,2-Tetrachloroethane			79-34-5	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 5.00	5.00		
1,1,2-Trichloroethane			79-00-5	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 5.00	5.00	6	
1,1-Dichloroethane			75-34-3	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 5.02	5.02		
1,1-Dichloroethene			75-35-4	ug/m3	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 1.00	1.00		
1,2,4-Trichlorobenzene			120-82-1	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 5.00	5.00		
1,2,4-Trimethylbenzene			95-63-6	ug/m3	5.75	1.00	10.5	1.00	3.49	1.00	4.96	1.00	< 5.01	5.01		
1,2-Dibromoethane(EDB)			106-93-4	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 5.00	5.00		
1,2-Dichlorobenzene			95-50-1	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 5.00	5.00		
1,2-Dichloroethane			107-06-2	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 5.02	5.02		
1,2-dichloropropane			78-87-5	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 4.99	4.99		
1,2-Dichlorotetrafluoroethane			76-14-2	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 5.00	5.00		
1,3,5-Trimethylbenzene			108-67-8	ug/m3	1.66	1.00	4.62	1.00	1.54	1.00	1.7	1.00	< 5.01	5.01		
1,3-Butadiene			106-99-0	ug/m3	< 1.00	1.00	10.5	1.00	< 1.00	1.00	< 1.00	1.00	< 5.00	5.00		
1,3-Dichlorobenzene			541-73-1	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 5.00	5.00		
1,4-Dichlorobenzene			106-46-7	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 5.00	5.00		
1,4-Dioxane			123-91-1	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 5.01	5.01		
2-Hexanone(MBK)			591-78-6	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 4.99	4.99		
4-Ethyltoluene			622-96-8	ug/m3	6.09	1.00	10.6	1.00	3.61	1.00	5.11	1.00	< 5.01	5.01		
4-Isopropyltoluene			99-87-6	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 5.00	5.00		
4-Methyl-2-pentanone(MIBK)			108-10-1	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 4.99	4.99		
Acetone			67-64-1	ug/m3	71	1.00	157	5.01	66.7	1.00	18.5	1.00	22.2	5.01		

Volatiles (TO15) By TO15 (page 2 of 3)

Acrylonitrile	107-13-1	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 5.01	5.01	
Benzene	71-43-2	ug/m3	4.31	1.00	19.1	1.00	8.68	1.00	7.82	1.00	< 5.01	5.01	
Benzyl chloride	100-44-7	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 5.00	5.00	
Bromodichloromethane	75-27-4	ug/m3	< 1.00	1.00	< 1.00	1.00	1.92	1.00	9.44	1.00	< 5.00	5.00	
Bromoform	75-25-2	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 5.00	5.00	
Bromomethane	74-83-9	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 5.01	5.01	
Carbon Disulfide	75-15-0	ug/m3	8.93	1.00	1.24	1.00	1.34	1.00	1.07	1.00	< 5.01	5.01	
Carbon Tetrachloride	56-23-5	ug/m3	< 0.20	0.20	0.31	0.20	0.44	0.20	0.53	0.20	< 1.00	1.00	6
Chlorobenzene	108-90-7	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 5.01	5.01	
Chloroethane	75-00-3	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 5.01	5.01	
Chloroform	67-66-3	ug/m3	7.9	1.00	1.89	1.00	16.9	1.00	18.4	1.00	22.2	4.98	
Chloromethane	74-87-3	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 4.99	4.99	
Cis-1,2-Dichloroethene	156-59-2	ug/m3	0.92	0.20	9.99	0.20	19.5	0.20	82.4	0.20	6.38	1.00	6
cis-1,3-Dichloropropene	10061-01-5	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 4.99	4.99	
Cyclohexane	110-82-7	ug/m3	3.65	1.00	10.3	1.00	5.64	1.00	5.13	1.00	< 4.99	4.99	
Dibromochloromethane	124-48-1	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	1.97	1.00	< 5.00	5.00	
Dichlorodifluoromethane	75-71-8	ug/m3	1.22	1.00	1.37	1.00	2.13	1.00	2.36	1.00	< 4.99	4.99	
Ethanol	64-17-5	ug/m3	11	1.00	40.1	1.00	12.2	1.00	8.13	1.00	11.2	5.01	
Ethyl acetate	141-78-6	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 5.01	5.01	
Ethylbenzene	100-41-4	ug/m3	6.99	1.00	8.81	1.00	4.73	1.00	5.34	1.00	5.86	4.99	
Heptane	142-82-5	ug/m3	12.5	1.00	34.8	1.00	16.8	1.00	12.6	1.00	19.7	5.00	
Hexachlorobutadiene	87-68-3	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 5.00	5.00	
Hexane	110-54-3	ug/m3	7.4	1.00	19	1.00	11.3	1.00	8.56	1.00	5.35	5.00	
Isopropylalcohol	67-63-0	ug/m3	1.85	1.00	3.12	1.00	3.14	1.00	< 1.00	1.00	< 5.01	5.01	
Isopropylbenzene	98-82-8	ug/m3	< 1.00	1.00	1.51	1.00	< 1.00	1.00	< 1.00	1.00	< 5.01	5.01	
m,p-Xylene	179601-23-1	ug/m3	26.6	1.00	33.8	1.00	22	1.00	24.4	1.00	21.7	4.99	
Methyl Ethyl Ketone	78-93-3	ug/m3	3.65	1.00	33.3	1.00	6.84	1.00	3.65	1.00	< 5.01	5.01	
Methyl tert-butyl ether(MTBE)	1634-04-4	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 5.01	5.01	
Methylene Chloride	75-09-2	ug/m3	< 3.00	3.00	16.9	3.00	< 3.00	3.00	< 3.00	3.00	< 15.0	15.0	100
n-Butylbenzene	104-51-8	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 5.00	5.00	
o-Xylene	95-47-6	ug/m3	9.2	1.00	10.8	1.00	6.47	1.00	7.64	1.00	7.03	4.99	
Propylene	115-07-1	ug/m3	< 1.00	1.00	26	1.00	< 1.00	1.00	< 1.00	1.00	< 5.01	5.01	

Volatiles (TO15) By TO15 (page 3 of 3)

sec-Butylbenzene	135-98-8	ug/m3	< 1.00	1.00	1.18	1.00	< 1.00	1.00	< 1.00	1.00	< 5.00	5.00	
Styrene	100-42-5	ug/m3	< 1.00	1.00	2.29	1.00	< 1.00	1.00	< 1.00	1.00	< 4.98	4.98	
Tetrachloroethene	127-18-4	ug/m3	505	1.25	1,040	1.25	65.2	0.25	29.5	0.25	607	1.25	100
Tetrahydrofuran	109-99-9	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 5.01	5.01	
Toluene	108-88-3	ug/m3	45.9	1.00	61.8	1.00	40.3	1.00	42.6	1.00	48.2	5.01	
Trans-1,2-Dichloroethene	156-60-5	ug/m3	< 1.00	1.00	2.88	1.00	< 1.00	1.00	2.01	1.00	< 4.99	4.99	
trans-1,3-Dichloropropene	10061-02-6	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 4.99	4.99	
Trichloroethene	79-01-6	ug/m3	480	1.00	307	1.00	301	1.00	259	1.00	2,310	6.01	6
Trichlorofluoromethane	75-69-4	ug/m3	< 1.00	1.00	< 1.00	1.00	1.04	1.00	1.41	1.00	< 5.00	5.00	
Trichlorotrifluoroethane	76-13-1	ug/m3	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 5.00	5.00	
Vinyl Chloride	75-01-4	ug/m3	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 1.00	1.00	6

Result Detected

Exceeds NYSDOH Standard

Exceeds DOH Standard by OOM

Exceeds Standard by 2 OOM





Site Photos - View east end of building raised slab / Farmers Market Space



JADE ENVIRONMENTAL
ENGINEERING, PLLC

Harrison Radiator
Lockport, New York

Notes:

Raised concrete slab adds 4" to an average 7" pad
Gantry crane visible across top of 3rd floor
Peaked glass sunlight covers galley
Position TP-1 to left in photo



Site Photos – two similar pots found this one not filled with concrete – liquid sampled – non haz



JADE ENVIRONMENTAL
ENGINEERING, PLLC

Harrison Radiator
Lockport, New York

Notes:
Spent crankcase oil and high sodium from stored trucks
Must be liquid tight id still holding water



Site Photos - all “bays” created by piers were packed with items creating access issue



JADE ENVIRONMENTAL
ENGINEERING, PLLC

Harrison Radiator
Lockport, New York

Notes:
Samples collected in spaces between stored items
Visual inspection of concrete slab not feasible



Site Photos - View beneath loading dock west end and wall of cogen plant beyond ramp



JADE ENVIRONMENTAL
ENGINEERING, PLLC

Harrison Radiator
Lockport, New York

Notes:
Cogen plant contains friable asbestos – must be abated
Cogen plant includes flooded basement – needs
inspection and testing



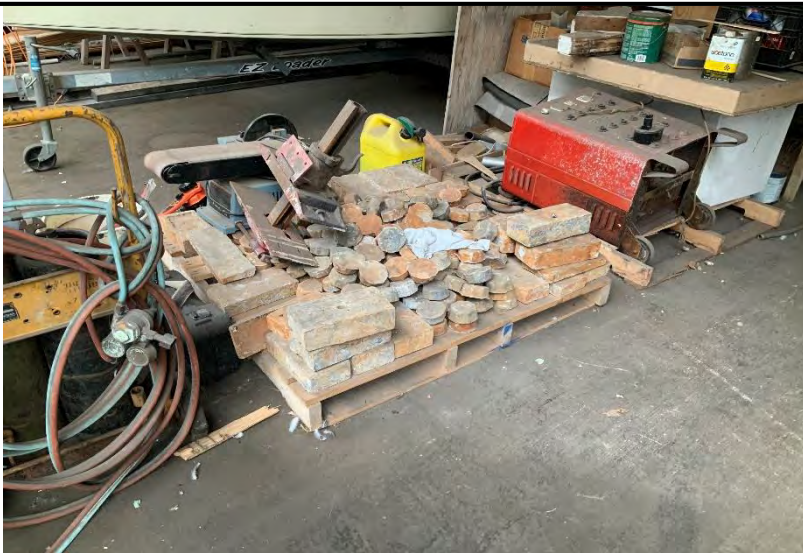
Site Photos - View of west end of building shows extent of storage preventing access



JADE ENVIRONMENTAL
ENGINEERING, PLLC

Harrison Radiator
Lockport, New York

Notes:
Several patterns in concrete appear to be thick sets for
heavy equipment



Site Photos - Lead ingots, buckt(s) waste oil?, compressor oil and leaky hydraulic fluid



**JADE ENVIRONMENTAL
ENGINEERING, PLLC**

Harrison Radiator
Lockport, New York

Notes:
Generally recent events do not appear to be a large
concern for the property



Monday, December 16, 2019

Attn: Mr. David Pelletier
Jade Environmental, Inc.
14 Ridgecrest Dr
Wingdale, NY 12594

Project ID: LOCKPORT BLDG #3
SDG ID: GCE83270
Sample ID#s: CE83270 - CE83274

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.

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

December 16, 2019

SDG I.D.: GCE83270

Project ID: LOCKPORT BLDG #3

Client Id	Lab Id	Matrix
TP-5	CE83270	AIR
TP-6	CE83271	AIR
TP-4	CE83272	AIR
TP-1	CE83273	AIR
TP-3	CE83274	AIR



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



Analysis Report

December 16, 2019

FOR: Attn: Mr. David Pelletier
Jade Environmental, Inc.
14 Ridgecrest Dr
Wingdale, NY 12594

Sample Information

Matrix: AIR
Location Code: JADEENV
Rush Request: 72 Hour
P.O.#:
Canister Id: 482

Custody Information

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

Date Time
12/08/19 11:47
12/09/19 16:32

Laboratory Data

SDG ID: GCE83270
Phoenix ID: CE83270

Project ID: LOCKPORT BLDG #3
Client ID: TP-5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Volatiles (TO15)							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	12/11/19	KCA	1
1,1,1-Trichloroethane	2.60	0.183	14.2	1.00	12/11/19	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	12/11/19	KCA	1
1,1,2-Trichloroethane	ND	0.183	ND	1.00	12/11/19	KCA	1
1,1-Dichloroethane	ND	0.247	ND	1.00	12/11/19	KCA	1
1,1-Dichloroethene	ND	0.051	ND	0.20	12/11/19	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	12/11/19	KCA	1
1,2,4-Trimethylbenzene	1.17	0.204	5.75	1.00	12/11/19	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	12/11/19	KCA	1
1,2-Dichlorobenzene	ND	0.166	ND	1.00	12/11/19	KCA	1
1,2-Dichloroethane	ND	0.247	ND	1.00	12/11/19	KCA	1
1,2-dichloropropane	ND	0.217	ND	1.00	12/11/19	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	12/11/19	KCA	1
1,3,5-Trimethylbenzene	0.338	0.204	1.66	1.00	12/11/19	KCA	1
1,3-Butadiene	ND	0.452	ND	1.00	12/11/19	KCA	1
1,3-Dichlorobenzene	ND	0.166	ND	1.00	12/11/19	KCA	1
1,4-Dichlorobenzene	ND	0.166	ND	1.00	12/11/19	KCA	1
1,4-Dioxane	ND	0.278	ND	1.00	12/11/19	KCA	1
2-Hexanone(MBK)	ND	0.244	ND	1.00	12/11/19	KCA	1
4-Ethyltoluene	1.24	0.204	6.09	1.00	12/11/19	KCA	1
4-Isopropyltoluene	ND	0.182	ND	1.00	12/11/19	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	12/11/19	KCA	1
Acetone	29.9	0.421	71.0	1.00	12/11/19	KCA	1
Acrylonitrile	ND	0.461	ND	1.00	12/11/19	KCA	1
Benzene	1.35	0.313	4.31	1.00	12/11/19	KCA	1
Benzyl chloride	ND	0.193	ND	1.00	12/11/19	KCA	1

Client ID: TP-5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	0.149	ND	1.00	12/11/19	KCA	1	
Bromoform	ND	0.097	ND	1.00	12/11/19	KCA	1	
Bromomethane	ND	0.258	ND	1.00	12/11/19	KCA	1	
Carbon Disulfide	2.87	0.321	8.93	1.00	12/11/19	KCA	1	
Carbon Tetrachloride	ND	0.032	ND	0.20	12/11/19	KCA	1	
Chlorobenzene	ND	0.217	ND	1.00	12/11/19	KCA	1	
Chloroethane	ND	0.379	ND	1.00	12/11/19	KCA	1	
Chloroform	1.62	0.205	7.90	1.00	12/11/19	KCA	1	
Chloromethane	ND	0.485	ND	1.00	12/11/19	KCA	1	
Cis-1,2-Dichloroethene	0.233	0.051	0.92	0.20	12/11/19	KCA	1	
cis-1,3-Dichloropropene	ND	0.221	ND	1.00	12/11/19	KCA	1	
Cyclohexane	1.06	0.291	3.65	1.00	12/11/19	KCA	1	
Dibromochloromethane	ND	0.118	ND	1.00	12/11/19	KCA	1	
Dichlorodifluoromethane	0.246	0.202	1.22	1.00	12/11/19	KCA	1	
Ethanol	5.85	0.531	11.0	1.00	12/11/19	KCA	1	1
Ethyl acetate	ND	0.278	ND	1.00	12/11/19	KCA	1	1
Ethylbenzene	1.61	0.230	6.99	1.00	12/11/19	KCA	1	
Heptane	3.05	0.244	12.5	1.00	12/11/19	KCA	1	
Hexachlorobutadiene	ND	0.094	ND	1.00	12/11/19	KCA	1	
Hexane	2.10	0.284	7.40	1.00	12/11/19	KCA	1	
Isopropylalcohol	0.755	0.407	1.85	1.00	12/11/19	KCA	1	
Isopropylbenzene	ND	0.204	ND	1.00	12/11/19	KCA	1	
m,p-Xylene	6.12	0.230	26.6	1.00	12/11/19	KCA	1	
Methyl Ethyl Ketone	1.24	0.339	3.65	1.00	12/11/19	KCA	1	
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	12/11/19	KCA	1	
Methylene Chloride	ND	0.864	ND	3.00	12/11/19	KCA	1	
n-Butylbenzene	ND	0.182	ND	1.00	12/11/19	KCA	1	1
o-Xylene	2.12	0.230	9.20	1.00	12/11/19	KCA	1	
Propylene	ND	0.581	ND	1.00	12/11/19	KCA	1	1
sec-Butylbenzene	ND	0.182	ND	1.00	12/11/19	KCA	1	1
Styrene	ND	0.235	ND	1.00	12/11/19	KCA	1	
Tetrachloroethene	74.5	0.184	505	1.25	12/11/19	KCA	5	
Tetrahydrofuran	ND	0.339	ND	1.00	12/11/19	KCA	1	1
Toluene	12.2	0.266	45.9	1.00	12/11/19	KCA	1	
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	12/11/19	KCA	1	
trans-1,3-Dichloropropene	ND	0.221	ND	1.00	12/11/19	KCA	1	
Trichloroethene	89.4	0.186	480	1.00	12/11/19	KCA	5	
Trichlorofluoromethane	ND	0.178	ND	1.00	12/11/19	KCA	1	
Trichlorotrifluoroethane	ND	0.131	ND	1.00	12/11/19	KCA	1	
Vinyl Chloride	ND	0.078	ND	0.20	12/11/19	KCA	1	
<u>QA/QC Surrogates/Internals</u>								
% Bromofluorobenzene	90	%	90	%	12/11/19	KCA	1	
% IS-1,4-Difluorobenzene	59	%	59	%	12/11/19	KCA	1	3
% IS-Bromochloromethane	84	%	84	%	12/11/19	KCA	1	
% IS-Chlorobenzene-d5	89	%	89	%	12/11/19	KCA	1	
% Bromofluorobenzene (5x)	97	%	97	%	12/11/19	KCA	5	
% IS-1,4-Difluorobenzene (5x)	82	%	82	%	12/11/19	KCA	5	
% IS-Bromochloromethane (5x)	106	%	106	%	12/11/19	KCA	5	
% IS-Chlorobenzene-d5 (5x)	99	%	99	%	12/11/19	KCA	5	

Client ID: TP-5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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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.

3 = This parameter exceeds laboratory specified limits.

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:

The canister was received under no vacuum, therefore sample results may not be representative.

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

December 16, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab 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

December 16, 2019

FOR: Attn: Mr. David Pelletier
Jade Environmental, Inc.
14 Ridgecrest Dr
Wingdale, NY 12594

Sample Information

Matrix: AIR
Location Code: JADEENV
Rush Request: 72 Hour
P.O.#:
Canister Id: 13636

Custody Information

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

Date	Time
12/08/19	11:42
12/09/19	16:32

Laboratory Data

SDG ID: GCE83270
Phoenix ID: CE83271

Project ID: LOCKPORT BLDG #3
Client ID: TP-6

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Volatiles (TO15)							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	12/11/19	KCA	1
1,1,1-Trichloroethane	0.386	0.183	2.10	1.00	12/11/19	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	12/11/19	KCA	1
1,1,2-Trichloroethane	ND	0.183	ND	1.00	12/11/19	KCA	1
1,1-Dichloroethane	ND	0.247	ND	1.00	12/11/19	KCA	1
1,1-Dichloroethene	ND	0.051	ND	0.20	12/11/19	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	12/11/19	KCA	1
1,2,4-Trimethylbenzene	2.14	0.204	10.5	1.00	12/11/19	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	12/11/19	KCA	1
1,2-Dichlorobenzene	ND	0.166	ND	1.00	12/11/19	KCA	1
1,2-Dichloroethane	ND	0.247	ND	1.00	12/11/19	KCA	1
1,2-dichloropropane	ND	0.217	ND	1.00	12/11/19	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	12/11/19	KCA	1
1,3,5-Trimethylbenzene	0.941	0.204	4.62	1.00	12/11/19	KCA	1
1,3-Butadiene	4.73	0.452	10.5	1.00	12/11/19	KCA	1
1,3-Dichlorobenzene	ND	0.166	ND	1.00	12/11/19	KCA	1
1,4-Dichlorobenzene	ND	0.166	ND	1.00	12/11/19	KCA	1
1,4-Dioxane	ND	0.278	ND	1.00	12/11/19	KCA	1
2-Hexanone(MBK)	ND	0.244	ND	1.00	12/11/19	KCA	1
4-Ethyltoluene	2.15	0.204	10.6	1.00	12/11/19	KCA	1
4-Isopropyltoluene	ND	0.182	ND	1.00	12/11/19	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	12/11/19	KCA	1
Acetone	66.3	2.11	157	5.01	12/11/19	KCA	5
Acrylonitrile	ND	0.461	ND	1.00	12/11/19	KCA	1
Benzene	5.99	0.313	19.1	1.00	12/11/19	KCA	1
Benzyl chloride	ND	0.193	ND	1.00	12/11/19	KCA	1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	ND	1.00	12/11/19	KCA	1
Bromoform	ND	0.097	ND	1.00	12/11/19	KCA	1
Bromomethane	ND	0.258	ND	1.00	12/11/19	KCA	1
Carbon Disulfide	0.400	0.321	1.24	1.00	12/11/19	KCA	1
Carbon Tetrachloride	0.049	0.032	0.31	0.20	12/11/19	KCA	1
Chlorobenzene	ND	0.217	ND	1.00	12/11/19	KCA	1
Chloroethane	ND	0.379	ND	1.00	12/11/19	KCA	1
Chloroform	0.387	0.205	1.89	1.00	12/11/19	KCA	1
Chloromethane	ND	0.485	ND	1.00	12/11/19	KCA	1
Cis-1,2-Dichloroethene	2.52	0.051	10.0	0.20	12/11/19	KCA	1
cis-1,3-Dichloropropene	ND	0.221	ND	1.00	12/11/19	KCA	1
Cyclohexane	3.00	0.291	10.3	1.00	12/11/19	KCA	1
Dibromochloromethane	ND	0.118	ND	1.00	12/11/19	KCA	1
Dichlorodifluoromethane	0.277	0.202	1.37	1.00	12/11/19	KCA	1
Ethanol	21.3	0.531	40.1	1.00	12/11/19	KCA	1
Ethyl acetate	ND	0.278	ND	1.00	12/11/19	KCA	1
Ethylbenzene	2.03	0.230	8.81	1.00	12/11/19	KCA	1
Heptane	8.50	0.244	34.8	1.00	12/11/19	KCA	1
Hexachlorobutadiene	ND	0.094	ND	1.00	12/11/19	KCA	1
Hexane	5.38	0.284	19.0	1.00	12/11/19	KCA	1
Isopropylalcohol	1.27	0.407	3.12	1.00	12/11/19	KCA	1
Isopropylbenzene	0.308	0.204	1.51	1.00	12/11/19	KCA	1
m,p-Xylene	7.80	0.230	33.8	1.00	12/11/19	KCA	1
Methyl Ethyl Ketone	11.3	0.339	33.3	1.00	12/11/19	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	12/11/19	KCA	1
Methylene Chloride	4.86	0.864	16.9	3.00	12/11/19	KCA	1
n-Butylbenzene	ND	0.182	ND	1.00	12/11/19	KCA	1
o-Xylene	2.49	0.230	10.8	1.00	12/11/19	KCA	1
Propylene	15.1	0.581	26.0	1.00	12/11/19	KCA	1
sec-Butylbenzene	0.216	0.182	1.18	1.00	12/11/19	KCA	1
Styrene	0.539	0.235	2.29	1.00	12/11/19	KCA	1
Tetrachloroethene	153	0.184	1040	1.25	12/11/19	KCA	5
Tetrahydrofuran	ND	0.339	ND	1.00	12/11/19	KCA	1
Toluene	16.4	0.266	61.8	1.00	12/11/19	KCA	1
Trans-1,2-Dichloroethene	0.728	0.252	2.88	1.00	12/11/19	KCA	1
trans-1,3-Dichloropropene	ND	0.221	ND	1.00	12/11/19	KCA	1
Trichloroethene	57.1	0.186	307	1.00	12/11/19	KCA	5
Trichlorofluoromethane	ND	0.178	ND	1.00	12/11/19	KCA	1
Trichlorotrifluoroethane	ND	0.131	ND	1.00	12/11/19	KCA	1
Vinyl Chloride	ND	0.078	ND	0.20	12/11/19	KCA	1
<u>QA/QC Surrogates/Internals</u>							
% Bromofluorobenzene	89	%	89	%	12/11/19	KCA	1
% IS-1,4-Difluorobenzene	62	%	62	%	12/11/19	KCA	1
% IS-Bromochloromethane	77	%	77	%	12/11/19	KCA	1
% IS-Chlorobenzene-d5	88	%	88	%	12/11/19	KCA	1
% Bromofluorobenzene (5x)	100	%	100	%	12/11/19	KCA	5
% IS-1,4-Difluorobenzene (5x)	89	%	89	%	12/11/19	KCA	5
% IS-Bromochloromethane (5x)	107	%	107	%	12/11/19	KCA	5
% IS-Chlorobenzene-d5 (5x)	104	%	104	%	12/11/19	KCA	5

Client ID: TP-6

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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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:

The canister was received under no vacuum, therefore sample results may not be representative.

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Phyllis Shiller, Laboratory Director

December 16, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab 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

December 16, 2019

FOR: Attn: Mr. David Pelletier
Jade Environmental, Inc.
14 Ridgecrest Dr
Wingdale, NY 12594

Sample Information

Matrix: AIR
Location Code: JADEENV
Rush Request: 72 Hour
P.O.#:
Canister Id: 222

Custody Information

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

Date Time
12/08/19 12:22
12/09/19 16:32

Laboratory Data

SDG ID: GCE83270
Phoenix ID: CE83272

Project ID: LOCKPORT BLDG #3
Client ID: TP-4

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Volatiles (TO15)							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	12/12/19	KCA	1
1,1,1-Trichloroethane	ND	0.183	ND	1.00	12/12/19	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	12/12/19	KCA	1
1,1,2-Trichloroethane	ND	0.183	ND	1.00	12/12/19	KCA	1
1,1-Dichloroethane	ND	0.247	ND	1.00	12/12/19	KCA	1
1,1-Dichloroethene	ND	0.051	ND	0.20	12/12/19	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	12/12/19	KCA	1
1,2,4-Trimethylbenzene	0.711	0.204	3.49	1.00	12/12/19	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	12/12/19	KCA	1
1,2-Dichlorobenzene	ND	0.166	ND	1.00	12/12/19	KCA	1
1,2-Dichloroethane	ND	0.247	ND	1.00	12/12/19	KCA	1
1,2-dichloropropane	ND	0.217	ND	1.00	12/12/19	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	12/12/19	KCA	1
1,3,5-Trimethylbenzene	0.313	0.204	1.54	1.00	12/12/19	KCA	1
1,3-Butadiene	ND	0.452	ND	1.00	12/12/19	KCA	1
1,3-Dichlorobenzene	ND	0.166	ND	1.00	12/12/19	KCA	1
1,4-Dichlorobenzene	ND	0.166	ND	1.00	12/12/19	KCA	1
1,4-Dioxane	ND	0.278	ND	1.00	12/12/19	KCA	1
2-Hexanone(MBK)	ND	0.244	ND	1.00	12/12/19	KCA	1
4-Ethyltoluene	0.734	0.204	3.61	1.00	12/12/19	KCA	1
4-Isopropyltoluene	ND	0.182	ND	1.00	12/12/19	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	12/12/19	KCA	1
Acetone	28.1	0.421	66.7	1.00	12/12/19	KCA	1
Acrylonitrile	ND	0.461	ND	1.00	12/12/19	KCA	1
Benzene	2.72	0.313	8.68	1.00	12/12/19	KCA	1
Benzyl chloride	ND	0.193	ND	1.00	12/12/19	KCA	1

Client ID: TP-4

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	0.286	0.149	1.92	1.00	12/12/19	KCA	1	
Bromoform	ND	0.097	ND	1.00	12/12/19	KCA	1	
Bromomethane	ND	0.258	ND	1.00	12/12/19	KCA	1	
Carbon Disulfide	0.432	0.321	1.34	1.00	12/12/19	KCA	1	
Carbon Tetrachloride	0.070	0.032	0.44	0.20	12/12/19	KCA	1	
Chlorobenzene	ND	0.217	ND	1.00	12/12/19	KCA	1	
Chloroethane	ND	0.379	ND	1.00	12/12/19	KCA	1	
Chloroform	3.46	0.205	16.9	1.00	12/12/19	KCA	1	
Chloromethane	ND	0.485	ND	1.00	12/12/19	KCA	1	
Cis-1,2-Dichloroethene	4.93	0.051	19.5	0.20	12/12/19	KCA	1	
cis-1,3-Dichloropropene	ND	0.221	ND	1.00	12/12/19	KCA	1	
Cyclohexane	1.64	0.291	5.64	1.00	12/12/19	KCA	1	
Dibromochloromethane	ND	0.118	ND	1.00	12/12/19	KCA	1	
Dichlorodifluoromethane	0.432	0.202	2.13	1.00	12/12/19	KCA	1	
Ethanol	6.48	0.531	12.2	1.00	12/12/19	KCA	1	1
Ethyl acetate	ND	0.278	ND	1.00	12/12/19	KCA	1	1
Ethylbenzene	1.09	0.230	4.73	1.00	12/12/19	KCA	1	
Heptane	4.09	0.244	16.8	1.00	12/12/19	KCA	1	
Hexachlorobutadiene	ND	0.094	ND	1.00	12/12/19	KCA	1	
Hexane	3.22	0.284	11.3	1.00	12/12/19	KCA	1	
Isopropylalcohol	1.28	0.407	3.14	1.00	12/12/19	KCA	1	
Isopropylbenzene	ND	0.204	ND	1.00	12/12/19	KCA	1	
m,p-Xylene	5.08	0.230	22.0	1.00	12/12/19	KCA	1	
Methyl Ethyl Ketone	2.32	0.339	6.84	1.00	12/12/19	KCA	1	
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	12/12/19	KCA	1	
Methylene Chloride	ND	0.864	ND	3.00	12/12/19	KCA	1	
n-Butylbenzene	ND	0.182	ND	1.00	12/12/19	KCA	1	1
o-Xylene	1.49	0.230	6.47	1.00	12/12/19	KCA	1	
Propylene	ND	0.581	ND	1.00	12/12/19	KCA	1	1
sec-Butylbenzene	ND	0.182	ND	1.00	12/12/19	KCA	1	1
Styrene	ND	0.235	ND	1.00	12/12/19	KCA	1	
Tetrachloroethene	9.62	0.037	65.2	0.25	12/12/19	KCA	1	
Tetrahydrofuran	ND	0.339	ND	1.00	12/12/19	KCA	1	1
Toluene	10.7	0.266	40.3	1.00	12/12/19	KCA	1	
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	12/12/19	KCA	1	
trans-1,3-Dichloropropene	ND	0.221	ND	1.00	12/12/19	KCA	1	
Trichloroethene	56.0	0.186	301	1.00	12/11/19	KCA	5	
Trichlorofluoromethane	0.185	0.178	1.04	1.00	12/12/19	KCA	1	
Trichlorotrifluoroethane	ND	0.131	ND	1.00	12/12/19	KCA	1	
Vinyl Chloride	ND	0.078	ND	0.20	12/12/19	KCA	1	
<u>QA/QC Surrogates/Internals</u>								
% Bromofluorobenzene	93	%	93	%	12/12/19	KCA	1	
% IS-1,4-Difluorobenzene	55	%	55	%	12/12/19	KCA	1	3
% IS-Bromochloromethane	71	%	71	%	12/12/19	KCA	1	
% IS-Chlorobenzene-d5	80	%	80	%	12/12/19	KCA	1	
% Bromofluorobenzene (5x)	97	%	97	%	12/11/19	KCA	5	
% IS-1,4-Difluorobenzene (5x)	81	%	81	%	12/11/19	KCA	5	
% IS-Bromochloromethane (5x)	100	%	100	%	12/11/19	KCA	5	
% IS-Chlorobenzene-d5 (5x)	99	%	99	%	12/11/19	KCA	5	

Client ID: TP-4

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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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.

3 = This parameter exceeds laboratory specified limits.

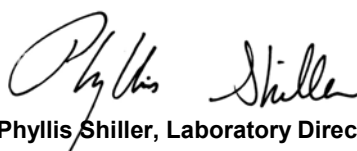
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low

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:

The canister was received under no vacuum, therefore sample results may not be representative.

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Phyllis Shiller, Laboratory Director

December 16, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab 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

December 16, 2019

FOR: Attn: Mr. David Pelletier
Jade Environmental, Inc.
14 Ridgecrest Dr
Wingdale, NY 12594

Sample Information

Matrix: AIR
Location Code: JADEENV
Rush Request: 72 Hour
P.O.#:
Canister Id: 19628

Custody Information

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

Date Time
12/08/19 11:40
12/09/19 16:32

Laboratory Data

SDG ID: GCE83270
Phoenix ID: CE83273

Project ID: LOCKPORT BLDG #3
Client ID: TP-1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Volatiles (TO15)							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	12/12/19	KCA	1
1,1,1-Trichloroethane	ND	0.183	ND	1.00	12/12/19	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	12/12/19	KCA	1
1,1,2-Trichloroethane	ND	0.183	ND	1.00	12/12/19	KCA	1
1,1-Dichloroethane	ND	0.247	ND	1.00	12/12/19	KCA	1
1,1-Dichloroethene	ND	0.051	ND	0.20	12/12/19	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	12/12/19	KCA	1
1,2,4-Trimethylbenzene	1.01	0.204	4.96	1.00	12/12/19	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	12/12/19	KCA	1
1,2-Dichlorobenzene	ND	0.166	ND	1.00	12/12/19	KCA	1
1,2-Dichloroethane	ND	0.247	ND	1.00	12/12/19	KCA	1
1,2-dichloropropane	ND	0.217	ND	1.00	12/12/19	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	12/12/19	KCA	1
1,3,5-Trimethylbenzene	0.346	0.204	1.70	1.00	12/12/19	KCA	1
1,3-Butadiene	ND	0.452	ND	1.00	12/12/19	KCA	1
1,3-Dichlorobenzene	ND	0.166	ND	1.00	12/12/19	KCA	1
1,4-Dichlorobenzene	ND	0.166	ND	1.00	12/12/19	KCA	1
1,4-Dioxane	ND	0.278	ND	1.00	12/12/19	KCA	1
2-Hexanone(MBK)	ND	0.244	ND	1.00	12/12/19	KCA	1
4-Ethyltoluene	1.04	0.204	5.11	1.00	12/12/19	KCA	1
4-Isopropyltoluene	ND	0.182	ND	1.00	12/12/19	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	12/12/19	KCA	1
Acetone	7.81	0.421	18.5	1.00	12/12/19	KCA	1
Acrylonitrile	ND	0.461	ND	1.00	12/12/19	KCA	1
Benzene	2.45	0.313	7.82	1.00	12/12/19	KCA	1
Benzyl chloride	ND	0.193	ND	1.00	12/12/19	KCA	1

Client ID: TP-1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	1.41	0.149	9.44	1.00	12/12/19	KCA	1	
Bromoform	ND	0.097	ND	1.00	12/12/19	KCA	1	
Bromomethane	ND	0.258	ND	1.00	12/12/19	KCA	1	
Carbon Disulfide	0.345	0.321	1.07	1.00	12/12/19	KCA	1	
Carbon Tetrachloride	0.085	0.032	0.53	0.20	12/12/19	KCA	1	
Chlorobenzene	ND	0.217	ND	1.00	12/12/19	KCA	1	
Chloroethane	ND	0.379	ND	1.00	12/12/19	KCA	1	
Chloroform	3.77	0.205	18.4	1.00	12/12/19	KCA	1	
Chloromethane	ND	0.485	ND	1.00	12/12/19	KCA	1	
Cis-1,2-Dichloroethene	20.8	0.051	82.4	0.20	12/12/19	KCA	1	
cis-1,3-Dichloropropene	ND	0.221	ND	1.00	12/12/19	KCA	1	
Cyclohexane	1.49	0.291	5.13	1.00	12/12/19	KCA	1	
Dibromochloromethane	0.231	0.118	1.97	1.00	12/12/19	KCA	1	
Dichlorodifluoromethane	0.478	0.202	2.36	1.00	12/12/19	KCA	1	
Ethanol	4.32	0.531	8.13	1.00	12/12/19	KCA	1	1
Ethyl acetate	ND	0.278	ND	1.00	12/12/19	KCA	1	1
Ethylbenzene	1.23	0.230	5.34	1.00	12/12/19	KCA	1	
Heptane	3.07	0.244	12.6	1.00	12/12/19	KCA	1	
Hexachlorobutadiene	ND	0.094	ND	1.00	12/12/19	KCA	1	
Hexane	2.43	0.284	8.56	1.00	12/12/19	KCA	1	
Isopropylalcohol	ND	0.407	ND	1.00	12/12/19	KCA	1	
Isopropylbenzene	ND	0.204	ND	1.00	12/12/19	KCA	1	
m,p-Xylene	5.63	0.230	24.4	1.00	12/12/19	KCA	1	
Methyl Ethyl Ketone	1.24	0.339	3.65	1.00	12/12/19	KCA	1	
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	12/12/19	KCA	1	
Methylene Chloride	ND	0.864	ND	3.00	12/12/19	KCA	1	
n-Butylbenzene	ND	0.182	ND	1.00	12/12/19	KCA	1	1
o-Xylene	1.76	0.230	7.64	1.00	12/12/19	KCA	1	
Propylene	ND	0.581	ND	1.00	12/12/19	KCA	1	1
sec-Butylbenzene	ND	0.182	ND	1.00	12/12/19	KCA	1	1
Styrene	ND	0.235	ND	1.00	12/12/19	KCA	1	
Tetrachloroethene	4.35	0.037	29.5	0.25	12/12/19	KCA	1	
Tetrahydrofuran	ND	0.339	ND	1.00	12/12/19	KCA	1	1
Toluene	11.3	0.266	42.6	1.00	12/12/19	KCA	1	
Trans-1,2-Dichloroethene	0.507	0.252	2.01	1.00	12/12/19	KCA	1	
trans-1,3-Dichloropropene	ND	0.221	ND	1.00	12/12/19	KCA	1	
Trichloroethene	48.2	0.186	259	1.00	12/11/19	KCA	5	
Trichlorofluoromethane	0.252	0.178	1.41	1.00	12/12/19	KCA	1	
Trichlorotrifluoroethane	ND	0.131	ND	1.00	12/12/19	KCA	1	
Vinyl Chloride	ND	0.078	ND	0.20	12/12/19	KCA	1	
<u>QA/QC Surrogates/Internals</u>								
% Bromofluorobenzene	95	%	95	%	12/12/19	KCA	1	
% IS-1,4-Difluorobenzene	55	%	55	%	12/12/19	KCA	1	3
% IS-Bromochloromethane	64	%	64	%	12/12/19	KCA	1	
% IS-Chlorobenzene-d5	79	%	79	%	12/12/19	KCA	1	
% Bromofluorobenzene (5x)	94	%	94	%	12/11/19	KCA	5	
% IS-1,4-Difluorobenzene (5x)	77	%	77	%	12/11/19	KCA	5	
% IS-Bromochloromethane (5x)	90	%	90	%	12/11/19	KCA	5	
% IS-Chlorobenzene-d5 (5x)	93	%	93	%	12/11/19	KCA	5	

Client ID: TP-1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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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.

3 = This parameter exceeds laboratory specified limits.

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:

The canister was received under no vacuum, therefore sample results may not be representative.

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

December 16, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab 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

December 16, 2019

FOR: Attn: Mr. David Pelletier
Jade Environmental, Inc.
14 Ridgecrest Dr
Wingdale, NY 12594

Sample Information

Matrix: AIR
Location Code: JADEENV
Rush Request: 72 Hour
P.O.#:
Canister Id: 28602

Custody Information

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

Date	Time
12/08/19	12:21
12/09/19	16:32

Laboratory Data

SDG ID: GCE83270
Phoenix ID: CE83274

Project ID: LOCKPORT BLDG #3
Client ID: TP-3

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Volatiles (TO15)							
1,1,1,2-Tetrachloroethane	ND	0.729	ND	5.00	12/11/19	KCA	5
1,1,1-Trichloroethane	ND	0.917	ND	5.00	12/11/19	KCA	5
1,1,2,2-Tetrachloroethane	ND	0.729	ND	5.00	12/11/19	KCA	5
1,1,2-Trichloroethane	ND	0.917	ND	5.00	12/11/19	KCA	5
1,1-Dichloroethane	ND	1.24	ND	5.02	12/11/19	KCA	5
1,1-Dichloroethene	ND	0.252	ND	1.00	12/11/19	KCA	5
1,2,4-Trichlorobenzene	ND	0.674	ND	5.00	12/11/19	KCA	5
1,2,4-Trimethylbenzene	ND	1.02	ND	5.01	12/11/19	KCA	5
1,2-Dibromoethane(EDB)	ND	0.651	ND	5.00	12/11/19	KCA	5
1,2-Dichlorobenzene	ND	0.832	ND	5.00	12/11/19	KCA	5
1,2-Dichloroethane	ND	1.24	ND	5.02	12/11/19	KCA	5
1,2-dichloropropane	ND	1.08	ND	4.99	12/11/19	KCA	5
1,2-Dichlorotetrafluoroethane	ND	0.716	ND	5.00	12/11/19	KCA	5
1,3,5-Trimethylbenzene	ND	1.02	ND	5.01	12/11/19	KCA	5
1,3-Butadiene	ND	2.26	ND	5.00	12/11/19	KCA	5
1,3-Dichlorobenzene	ND	0.832	ND	5.00	12/11/19	KCA	5
1,4-Dichlorobenzene	ND	0.832	ND	5.00	12/11/19	KCA	5
1,4-Dioxane	ND	1.39	ND	5.01	12/11/19	KCA	5
2-Hexanone(MBK)	ND	1.22	ND	4.99	12/11/19	KCA	5
4-Ethyltoluene	ND	1.02	ND	5.01	12/11/19	KCA	5
4-Isopropyltoluene	ND	0.911	ND	5.00	12/11/19	KCA	5
4-Methyl-2-pentanone(MIBK)	ND	1.22	ND	4.99	12/11/19	KCA	5
Acetone	9.36	2.11	22.2	5.01	12/11/19	KCA	5
Acrylonitrile	ND	2.31	ND	5.01	12/11/19	KCA	5
Benzene	ND	1.57	ND	5.01	12/11/19	KCA	5
Benzyl chloride	ND	0.966	ND	5.00	12/11/19	KCA	5

Client ID: TP-3

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	0.747	ND	5.00	12/11/19	KCA	5	
Bromoform	ND	0.484	ND	5.00	12/11/19	KCA	5	
Bromomethane	ND	1.29	ND	5.01	12/11/19	KCA	5	
Carbon Disulfide	ND	1.61	ND	5.01	12/11/19	KCA	5	
Carbon Tetrachloride	ND	0.159	ND	1.00	12/11/19	KCA	5	
Chlorobenzene	ND	1.09	ND	5.01	12/11/19	KCA	5	
Chloroethane	ND	1.90	ND	5.01	12/11/19	KCA	5	
Chloroform	4.54	1.02	22.2	4.98	12/11/19	KCA	5	
Chloromethane	ND	2.42	ND	4.99	12/11/19	KCA	5	
Cis-1,2-Dichloroethene	1.61	0.252	6.38	1.00	12/11/19	KCA	5	
cis-1,3-Dichloropropene	ND	1.10	ND	4.99	12/11/19	KCA	5	
Cyclohexane	ND	1.45	ND	4.99	12/11/19	KCA	5	
Dibromochloromethane	ND	0.587	ND	5.00	12/11/19	KCA	5	
Dichlorodifluoromethane	ND	1.01	ND	4.99	12/11/19	KCA	5	
Ethanol	5.95	2.66	11.2	5.01	12/11/19	KCA	5	1
Ethyl acetate	ND	1.39	ND	5.01	12/11/19	KCA	5	1
Ethylbenzene	1.35	1.15	5.86	4.99	12/11/19	KCA	5	
Heptane	4.82	1.22	19.7	5.00	12/11/19	KCA	5	
Hexachlorobutadiene	ND	0.469	ND	5.00	12/11/19	KCA	5	
Hexane	1.52	1.42	5.35	5.00	12/11/19	KCA	5	
Isopropylalcohol	ND	2.04	ND	5.01	12/11/19	KCA	5	
Isopropylbenzene	ND	1.02	ND	5.01	12/11/19	KCA	5	
m,p-Xylene	5.00	1.15	21.7	4.99	12/11/19	KCA	5	
Methyl Ethyl Ketone	ND	1.70	ND	5.01	12/11/19	KCA	5	
Methyl tert-butyl ether(MTBE)	ND	1.39	ND	5.01	12/11/19	KCA	5	
Methylene Chloride	ND	4.32	ND	15.0	12/11/19	KCA	5	
n-Butylbenzene	ND	0.911	ND	5.00	12/11/19	KCA	5	1
o-Xylene	1.62	1.15	7.03	4.99	12/11/19	KCA	5	
Propylene	ND	2.91	ND	5.01	12/11/19	KCA	5	1
sec-Butylbenzene	ND	0.911	ND	5.00	12/11/19	KCA	5	1
Styrene	ND	1.17	ND	4.98	12/11/19	KCA	5	
Tetrachloroethene	89.5	0.184	607	1.25	12/11/19	KCA	5	
Tetrahydrofuran	ND	1.70	ND	5.01	12/11/19	KCA	5	1
Toluene	12.8	1.33	48.2	5.01	12/11/19	KCA	5	
Trans-1,2-Dichloroethene	ND	1.26	ND	4.99	12/11/19	KCA	5	
trans-1,3-Dichloropropene	ND	1.10	ND	4.99	12/11/19	KCA	5	
Trichloroethene	431	1.12	2310	6.01	12/13/19	KCA	30	
Trichlorofluoromethane	ND	0.891	ND	5.00	12/11/19	KCA	5	
Trichlorotrifluoroethane	ND	0.653	ND	5.00	12/11/19	KCA	5	
Vinyl Chloride	ND	0.391	ND	1.00	12/11/19	KCA	5	
<u>QA/QC Surrogates/Internals</u>								
% Bromofluorobenzene (5x)	99	%	99	%	12/11/19	KCA	5	
% IS-1,4-Difluorobenzene (5x)	53	%	53	%	12/11/19	KCA	5	3
% IS-Bromochloromethane (5x)	89	%	89	%	12/11/19	KCA	5	
% IS-Chlorobenzene-d5 (5x)	79	%	79	%	12/11/19	KCA	5	
% Bromofluorobenzene (30x)	96	%	96	%	12/13/19	KCA	30	
% IS-1,4-Difluorobenzene (30x)	102	%	102	%	12/13/19	KCA	30	
% IS-Bromochloromethane (30x)	144	%	144	%	12/13/19	KCA	30	3
% IS-Chlorobenzene-d5 (30x)	113	%	113	%	12/13/19	KCA	30	

Client ID: TP-3

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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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.

3 = This parameter exceeds laboratory specified limits.

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:

The canister was received under no vacuum, therefore sample results may not be representative.

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.
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Phyllis Shiller, Laboratory Director

December 16, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Canister Sampling Information

December 16, 2019

FOR: Attn: Mr. David Pelletier
Jade Environmental, Inc.
14 Ridgecrest Dr
Wingdale, NY 12594

Location Code: JADEENV

SDG I.D.: GCE83270

Project ID: LOCKPORT BLDG #3

Client Id	Lab Id	Canister		Reg. Id	Chk Out Date	Laboratory					Field			
		Id	Type			Out Hg	In Hg	Out Flow	In Flow	Flow RPD	Start Hg	End Hg	Sampling Start Date	Sampling End Date
TP-5	CE83270	482	6.0L	4495	12/06/19	-30	0	173	174	0.6	-29	-2	12/08/19 11:50	12/08/19 11:47
TP-6	CE83271	13636	6.0L	5646	12/06/19	-30	0	173	175	1.1	-27	-1	12/08/19 11:04	12/08/19 11:42
TP-4	CE83272	222	6.0L	5614	12/06/19	-30	0	173	175	1.1	-27	-2	12/08/19 11:49	12/08/19 12:22
TP-1	CE83273	19628	6.0L	4984	12/06/19	-30	0	173	180	4.0	-29	-1	12/08/19 10:59	12/08/19 11:40
TP-3	CE83274	28602	6.0L	5381	12/06/19	-30	0	173	173	0.0	-27	-1	12/08/19 11:46	12/08/19 12:21



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QA/QC Report

December 16, 2019

QA/QC Data

SDG I.D.: GCE83270

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 509757 (ppbv), QC Sample No: CE83095 (CE83270 (5X) , CE83271 (5X))

Volatiles

Acetone	ND	0.420	ND	1.00		9.6	9.8	4.04	4.13	2.2	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25		ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20		ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	84	%	84	%		92	89	92	89	NC	70 - 130	25
% IS-1,4-Difluorobenzene	154	%	154	%		122	111	122	111	NC	60 - 140	25 s
% IS-Bromochloromethane	169	%	169	%		118	108	118	108	NC	60 - 140	25 s
% IS-Chlorobenzene-d5	138	%	138	%		118	112	118	112	NC	60 - 140	25

QA/QC Batch 509946 (ppbv), QC Sample No: CE83270 (CE83270, CE83271, CE83272 (1X, 5X) , CE83273 (1X, 5X) , CE83274 (5X))

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.150	ND	1.03	89	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.180	ND	0.98	89	14.2	14.6	2.60	2.67	2.7	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.150	ND	1.03	92	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.180	ND	0.98	95	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.250	ND	1.01	102	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	79	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.130	ND	0.96	59	ND	ND	ND	ND	NC	70 - 130	25 i
1,2,4-Trimethylbenzene	ND	0.200	ND	0.98	103	5.75	5.85	1.17	1.19	1.7	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.170	ND	1.02	86	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.250	ND	1.01	95	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.220	ND	1.02	112	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.140	ND	0.98	80	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.200	ND	0.98	107	1.66	1.68	0.338	0.341	NC	70 - 130	25
1,3-Butadiene	ND	0.450	ND	0.99	88	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.170	ND	1.02	84	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.170	ND	1.02	93	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.280	ND	1.01	120	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.240	ND	0.98	108	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.200	ND	0.98	100	6.09	6.39	1.24	1.30	4.7	70 - 130	25
4-Isopropyltoluene	ND	0.180	ND	0.99	100	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.240	ND	0.98	100	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.420	ND	1.00	98	71.0	74.1	29.9	31.2	4.3	70 - 130	25
Acrylonitrile	ND	0.460	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.310	ND	0.99	106	4.31	4.41	1.35	1.38	NC	70 - 130	25
Benzyl chloride	ND	0.190	ND	0.98	78	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.150	ND	1.00	92	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.260	ND	1.01	75	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.320	ND	1.00	83	8.93	9.49	2.87	3.05	6.1	70 - 130	25
Carbon Tetrachloride	ND	0.032	ND	0.20	91	ND	ND	ND	ND	NC	70 - 130	25

QA/QC Data

SDG I.D.: GCE83270

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Chlorobenzene	ND	0.220	ND	1.01	100	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.380	ND	1.00	76	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	99	7.90	8.15	1.62	1.67	3.0	70 - 130	25
Chloromethane	ND	0.480	ND	0.99	73	ND	ND	ND	ND	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.256	ND	1.01	112	0.92	ND	0.233	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	114	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.290	ND	1.00	115	3.65	3.72	1.06	1.08	NC	70 - 130	25
Dibromochloromethane	ND	0.120	ND	1.02	95	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	85	1.22	1.27	0.246	0.257	NC	70 - 130	25
Ethanol	ND	0.530	ND	1.00	94	11.0	11.5	5.85	6.10	4.2	70 - 130	25
Ethyl acetate	ND	0.280	ND	1.01	105	ND	ND	ND	ND	NC	70 - 130	25
Ethylbenzene	ND	0.230	ND	1.00	100	6.99	7.16	1.61	1.65	2.5	70 - 130	25
Heptane	ND	0.240	ND	0.98	104	12.5	12.9	3.05	3.14	2.9	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	63	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.280	ND	0.99	102	7.40	7.57	2.10	2.15	2.4	70 - 130	25
Isopropylalcohol	ND	0.410	ND	1.01	89	1.85	1.92	0.755	0.780	NC	70 - 130	25
Isopropylbenzene	ND	0.200	ND	0.98	115	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	108	26.6	27.1	6.12	6.25	2.1	70 - 130	25
Methyl Ethyl Ketone	ND	0.340	ND	1.00	103	3.65	3.86	1.24	1.31	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.280	ND	1.01	96	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.860	ND	2.99	88	ND	ND	ND	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.180	ND	0.99	90	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	118	9.20	9.5	2.12	2.20	3.7	70 - 130	25
Propylene	ND	0.580	ND	1.00	109	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.180	ND	0.99	97	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.230	ND	0.98	106	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	102	458	475	67.6	70.1	3.6	70 - 130	25
Tetrahydrofuran	ND	0.340	ND	1.00	115	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.270	ND	1.02	115	45.9	48.2	12.2	12.8	4.8	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.250	ND	0.99	93	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	109	418	440	77.9	81.9	5.0	70 - 130	25
Trichlorofluoromethane	ND	0.180	ND	1.01	67	ND	ND	ND	ND	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.130	ND	1.00	73	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.078	ND	0.20	84	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	87	%	87	%	99	90	90	90	90	NC	70 - 130	25
% IS-1,4-Difluorobenzene	115	%	115	%	78	59	56	59	56	NC	60 - 140	25
% IS-Bromochloromethane	128	%	128	%	71	84	81	84	81	NC	60 - 140	25
% IS-Chlorobenzene-d5	107	%	107	%	83	89	84	89	84	NC	60 - 140	25

QA/QC Batch 510157 (ppbv), QC Sample No: CE85314 (CE83274 (30X))

Volatiles

Trichloroethene	ND	0.037	ND	0.20	119	8.32	8.54	1.55	1.59	2.5	70 - 130	25
% Bromofluorobenzene	90	%	90	%	99	97	97	97	97	NC	70 - 130	25
% IS-1,4-Difluorobenzene	153	%	153	%	82	103	100	103	100	NC	60 - 140	25
% IS-Bromochloromethane	168	%	168	%	77	100	97	100	97	NC	60 - 140	25
% IS-Chlorobenzene-d5	137	%	137	%	89	111	107	111	107	NC	60 - 140	25

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

s = This parameter is outside laboratory Blank Surrogate specified recovery limits.

QA/QC Data

SDG I.D.: GCE83270

Parameter	Blk	Blk	Blk	Blk	LCS	Sample	Sample	Sample	Sample	DUP	%	%
	ppbv	RL	ug/m3	RL	%	Result	Dup	Result	Dup	RPD	Rec	RPD
		ppbv		ug/m3		ug/m3	ug/m3	ppbv	ppbv		Limits	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
December 16, 2019

Criteria: None
State: NY

Sample Criteria Exceedances Report
GCE83270 - JADEENV

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.



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



Analysis Comments

December 16, 2019

SDG I.D.: GCE83270

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.



587 Lus Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860/645-1107 • Fax: 860/645-0323

CHAIN OF CUSTODY RECORD AIR ANALYSES

800-827-5426
email: greg@phoenixlabs.com

P.O. #

Page / of

Data Delivery:

Fax #: 203-686-1000
Email: phoenix@phoenix.com
Phone #: _____

Report to: <u>Dave Pelletier</u>	Project Name: <u>Lakewood Bury #3</u>	Data Format: (Circle) <u>Print</u> Other: <u>Pix</u>
Customer: <u>Exide Env.</u>	Invoice to: <u>Exide</u>	Requested Deliverable: RCP ASP CAT B
Address: <u>141 Foxcroft Dr</u>	Sampled by: <u>Same</u>	MCP NJ Deliverables
Quote Number: _____		

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (H _g)	Incoming Canister Pressure (H _g)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (H _g)	Canister Pressure at End (H _g)	Matrix	Analyses
83270	TP-5	482	6.0	-30	0	4495	173	11:50	11:47	10/8	-29	-2	✓	✓
83271	TP-6	13636			0	5616		11:04	11:42	10/8	-27	-1	✓	✓
83272	TP-4	222			0	5614		11:49	12:22		-27	-2	✓	✓
83273	TP-1	19618			0	4984		10:59	11:40		-29	-1	✓	✓
83274	TP-3	28602			0	5381		11:46	12:21		-27	-1	✓	✓

Relinquished by: <u>AP</u>	Accepted by: <u>[Signature]</u>	Date: <u>12/19/99</u>	Time: <u>11:15</u>	I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document.			
Slate Where Samples Collected: <u>New York</u>		Requested Criteria: (Please Circle)	NI	NY	PA	VT	
Turnaround Time: ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 4 Day ☒ 5 Day		Indoor Air: Residential	Indoor Air: Residential	Vapor Intrusion	Indoor Air: Residential	Indoor Air: Residential	
SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION: <u>(5) (6.0 L) (30 min)</u>		TAC I/C	Indoor Air: Residential	Indoor Air: Residential	Indoor Air: Residential	Indoor Air: Residential	
		TAC RES	Indoor Air: Residential	Indoor Air: Residential	Indoor Air: Residential	Indoor Air: Residential	
		SVVC I/C	Indoor Air: Residential	Indoor Air: Residential	Indoor Air: Residential	Indoor Air: Residential	
		SVVC RES	Indoor Air: Residential	Indoor Air: Residential	Indoor Air: Residential	Indoor Air: Residential	
		GWV I/C	Indoor Air: Residential	Indoor Air: Residential	Indoor Air: Residential	Indoor Air: Residential	
		GWV RES	Indoor Air: Residential	Indoor Air: Residential	Indoor Air: Residential	Indoor Air: Residential	



Friday, December 20, 2019

Attn: Mr. David Pelletier
Jade Environmental, Inc.
14 Ridgecrest Dr
Wingdale, NY 12594

Project ID: LOCKPORT BLDG #3
SDG ID: GCE83263
Sample ID#s: CE83263 - CE83269

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.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. 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.
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Tel. (860) 645-1102 Fax (860) 645-0823



SDG Comments

December 20, 2019

SDG I.D.: GCE83263

Version 2: Per client request Halogenated volatiles were added on.



Environmental Laboratories, Inc.
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Sample Id Cross Reference

December 20, 2019

SDG I.D.: GCE83263

Project ID: LOCKPORT BLDG #3

Client Id	Lab Id	Matrix
TP-1 (1`-2`)	CE83263	SOIL
TP-3 (1`-2`)	CE83264	SOIL
TP-7 (1`-2`)	CE83265	SOIL
TP-4 (1`-2`)	CE83266	SOIL
TP-5 (1`-2`)	CE83267	SOIL
TP-6 (1`-2`)	CE83268	SOIL
POT	CE83269	WATER



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



Analysis Report

December 20, 2019

FOR: Attn: Mr. David Pelletier
Jade Environmental, Inc.
14 Ridgecrest Dr
Wingdale, NY 12594

Sample Information

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

Custody Information

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

Date

12/08/19
12/09/19 16:32

Time

Laboratory Data

SDG ID: GCE83263
Phoenix ID: CE83263

Project ID: LOCKPORT BLDG #3
Client ID: TP-1 (1'-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	3.90	0.78	mg/Kg	1	12/10/19	MGH	SW6010D
Barium	139	0.39	mg/Kg	1	12/10/19	MGH	SW6010D
Cadmium	0.49	0.39	mg/Kg	1	12/10/19	MGH	SW6010D
Chromium	27.1	0.39	mg/Kg	1	12/10/19	MGH	SW6010D
Lead	18.8	0.39	mg/Kg	1	12/10/19	MGH	SW6010D
Mercury	0.18	0.03	mg/Kg	2	12/10/19	RS	SW7471B
Selenium	< 1.6	1.6	mg/Kg	1	12/10/19	TH	SW6010D
Silver	< 0.39	0.39	mg/Kg	1	12/10/19	MGH	SW6010D
Percent Solid	82		%		12/09/19	VT	SW846-%Solid
Soil Extraction for PCB	Completed				12/09/19	MM/L	SW3545A
Soil Extraction SVOA PAH	Completed				12/09/19	KK/LA	SW3545A
Mercury Digestion	Completed				12/10/19	LS/W	SW7471B
Total Metals Digest	Completed				12/09/19	JJ/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	400	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1221	ND	400	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1232	ND	400	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1242	ND	400	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1248	ND	400	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1254	ND	400	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1260	ND	400	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1262	ND	400	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1268	ND	400	ug/Kg	10	12/10/19	SC	SW8082A

QA/QC Surrogates

% DCBP	59	%	10	12/10/19	SC	30 - 150 %
% DCBP (Confirmation)	61	%	10	12/10/19	SC	30 - 150 %
% TCMX	56	%	10	12/10/19	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX (Confirmation)	57		%	10	12/10/19	SC	30 - 150 %

Halogenated Volatiles

1,1,1,2-Tetrachloroethane	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
1,1-Dichloroethane	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
1,1-Dichloroethene	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
1,2-Dichloroethane	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
1,2-Dichloropropane	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
Bromobenzene	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
Bromodichloromethane	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
Bromoform	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
Bromomethane	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
Carbon tetrachloride	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
Chlorobenzene	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
Chloroethane	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
Chloroform	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
Chloromethane	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
Dibromochloromethane	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
Dibromomethane	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
Dichlorodifluoromethane	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
Methylene chloride	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
Tetrachloroethene	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
Trichloroethene	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
Trichlorofluoromethane	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C
Vinyl chloride	ND	L 6.1	ug/Kg	1	12/18/19	JLI	SW8260C

QA/QC Surrogates

% 1,2-dichlorobenzene-d4	95		%	1	12/18/19	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	12/18/19	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	12/18/19	JLI	70 - 130 %
% Toluene-d8	93		%	1	12/18/19	JLI	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	280	ug/Kg	1	12/10/19	WB	SW8270D
Acenaphthene	ND	280	ug/Kg	1	12/10/19	WB	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	12/10/19	WB	SW8270D
Anthracene	ND	280	ug/Kg	1	12/10/19	WB	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	12/10/19	WB	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	12/10/19	WB	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	12/10/19	WB	SW8270D

Client ID: TP-1 (1`-2`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(ghi)perylene	ND	280	ug/Kg	1	12/10/19	WB	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	12/10/19	WB	SW8270D
Chrysene	ND	280	ug/Kg	1	12/10/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	12/10/19	WB	SW8270D
Fluoranthene	ND	280	ug/Kg	1	12/10/19	WB	SW8270D
Fluorene	ND	280	ug/Kg	1	12/10/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	12/10/19	WB	SW8270D
Naphthalene	ND	280	ug/Kg	1	12/10/19	WB	SW8270D
Phenanthrene	ND	280	ug/Kg	1	12/10/19	WB	SW8270D
Pyrene	ND	280	ug/Kg	1	12/10/19	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	54		%	1	12/10/19	WB	30 - 130 %
% Nitrobenzene-d5	56		%	1	12/10/19	WB	30 - 130 %
% Terphenyl-d14	60		%	1	12/10/19	WB	30 - 130 %

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.

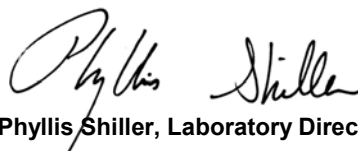
Comments:

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

December 20, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

December 20, 2019

FOR: Attn: Mr. David Pelletier
Jade Environmental, Inc.
14 Ridgecrest Dr
Wingdale, NY 12594

Sample Information

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

Custody Information

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

Date

12/08/19
12/09/19 16:32

Laboratory Data

SDG ID: GCE83263
Phoenix ID: CE83264

Project ID: LOCKPORT BLDG #3
Client ID: TP-3 (1'-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	8.15	0.76	mg/Kg	1	12/10/19	CPP	SW6010D
Barium	160	0.38	mg/Kg	1	12/10/19	CPP	SW6010D
Cadmium	1.13	0.38	mg/Kg	1	12/10/19	CPP	SW6010D
Chromium	27.7	0.38	mg/Kg	1	12/10/19	CPP	SW6010D
Lead	155	0.38	mg/Kg	1	12/10/19	CPP	SW6010D
Mercury	0.13	0.03	mg/Kg	2	12/10/19	RS	SW7471B
Selenium	< 1.5	1.5	mg/Kg	1	12/10/19	TH	SW6010D
Silver	< 0.38	0.38	mg/Kg	1	12/10/19	CPP	SW6010D
Percent Solid	86		%		12/09/19	VT	SW846-%Solid
Soil Extraction for PCB	Completed				12/09/19	MM/L	SW3545A
Soil Extraction SVOA PAH	Completed				12/09/19	KK/LA	SW3545A
Mercury Digestion	Completed				12/10/19	LS/W	SW7471B
Total Metals Digest	Completed				12/09/19	JJ/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	380	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	12/10/19	SC	SW8082A

QA/QC Surrogates

% DCBP	86	%	10	12/10/19	SC	30 - 150 %
% DCBP (Confirmation)	103	%	10	12/10/19	SC	30 - 150 %
% TCMX	92	%	10	12/10/19	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX (Confirmation)	92		%	10	12/10/19	SC	30 - 150 %

Halogenated Volatiles

1,1,1,2-Tetrachloroethane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
1,1-Dichloroethane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
1,1-Dichloroethene	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
1,2-Dichloroethane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
1,2-Dichloropropane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Bromobenzene	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Bromodichloromethane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Bromoform	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Bromomethane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Carbon tetrachloride	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Chlorobenzene	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Chloroethane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Chloroform	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Chloromethane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Dibromochloromethane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Dibromomethane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Dichlorodifluoromethane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Methylene chloride	6.9	SL 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Tetrachloroethene	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Trichloroethene	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Trichlorofluoromethane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Vinyl chloride	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C

QA/QC Surrogates

% 1,2-dichlorobenzene-d4	96		%	1	12/18/19	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	12/18/19	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	12/18/19	JLI	70 - 130 %
% Toluene-d8	92		%	1	12/18/19	JLI	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	270	ug/Kg	1	12/10/19	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	12/10/19	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	12/10/19	WB	SW8270D
Anthracene	360	270	ug/Kg	1	12/10/19	WB	SW8270D
Benz(a)anthracene	1400	270	ug/Kg	1	12/10/19	WB	SW8270D
Benzo(a)pyrene	1100	270	ug/Kg	1	12/10/19	WB	SW8270D
Benzo(b)fluoranthene	1100	270	ug/Kg	1	12/10/19	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(ghi)perylene	600	270	ug/Kg	1	12/10/19	WB	SW8270D
Benzo(k)fluoranthene	950	270	ug/Kg	1	12/10/19	WB	SW8270D
Chrysene	1500	270	ug/Kg	1	12/10/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	12/10/19	WB	SW8270D
Fluoranthene	2500	270	ug/Kg	1	12/10/19	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	12/10/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	620	270	ug/Kg	1	12/10/19	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	12/10/19	WB	SW8270D
Phenanthrene	1300	270	ug/Kg	1	12/10/19	WB	SW8270D
Pyrene	2100	270	ug/Kg	1	12/10/19	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	61		%	1	12/10/19	WB	30 - 130 %
% Nitrobenzene-d5	62		%	1	12/10/19	WB	30 - 130 %
% Terphenyl-d14	59		%	1	12/10/19	WB	30 - 130 %

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:

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

December 20, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

December 20, 2019

FOR: Attn: Mr. David Pelletier
Jade Environmental, Inc.
14 Ridgecrest Dr
Wingdale, NY 12594

Sample Information

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

Custody Information

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

Date
12/08/19
12/09/19 16:32

Laboratory Data

SDG ID: GCE83263
Phoenix ID: CE83265

Project ID: LOCKPORT BLDG #3
Client ID: TP-7 (1'-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	5.40	0.84	mg/Kg	1	12/10/19	CPP	SW6010D
Barium	111	0.42	mg/Kg	1	12/10/19	CPP	SW6010D
Cadmium	1.28	0.42	mg/Kg	1	12/10/19	CPP	SW6010D
Chromium	10.1	0.42	mg/Kg	1	12/10/19	CPP	SW6010D
Lead	79.1	0.42	mg/Kg	1	12/10/19	CPP	SW6010D
Mercury	0.26	0.03	mg/Kg	2	12/10/19	RS	SW7471B
Selenium	< 1.7	1.7	mg/Kg	1	12/10/19	TH	SW6010D
Silver	< 0.42	0.42	mg/Kg	1	12/10/19	CPP	SW6010D
Percent Solid	74		%		12/09/19	VT	SW846-%Solid
Soil Extraction for PCB	Completed				12/09/19	MM/L	SW3545A
Soil Extraction SVOA PAH	Completed				12/09/19	KK/LA	SW3545A
Mercury Digestion	Completed				12/10/19	LS/W	SW7471B
Total Metals Digest	Completed				12/09/19	JJ/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	440	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1221	ND	440	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1232	ND	440	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1242	ND	440	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1248	ND	440	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1254	ND	440	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1260	ND	440	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1262	ND	440	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1268	ND	440	ug/Kg	10	12/10/19	SC	SW8082A

QA/QC Surrogates

% DCBP	60	%	10	12/10/19	SC	30 - 150 %
% DCBP (Confirmation)	64	%	10	12/10/19	SC	30 - 150 %
% TCMX	60	%	10	12/10/19	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX (Confirmation)	62		%	10	12/10/19	SC	30 - 150 %

Halogenated Volatiles

1,1,1,2-Tetrachloroethane	ND	L 6.7	ug/Kg	1	12/18/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	L 6.7	ug/Kg	1	12/18/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 6.7	ug/Kg	1	12/18/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 6.7	ug/Kg	1	12/18/19	JLI	SW8260C
1,1-Dichloroethane	ND	L 6.7	ug/Kg	1	12/18/19	JLI	SW8260C
1,1-Dichloroethene	ND	L 6.7	ug/Kg	1	12/18/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	L 6.7	ug/Kg	1	12/18/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 6.7	ug/Kg	1	12/18/19	JLI	SW8260C
1,2-Dichloroethane	ND	L 6.7	ug/Kg	1	12/18/19	JLI	SW8260C
1,2-Dichloropropane	ND	L 6.7	ug/Kg	1	12/18/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 6.7	ug/Kg	1	12/18/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 6.7	ug/Kg	1	12/18/19	JLI	SW8260C
Bromobenzene	ND	L 6.7	ug/Kg	1	12/18/19	JLI	SW8260C
Bromodichloromethane	ND	L 6.7	ug/Kg	1	12/18/19	JLI	SW8260C
Bromoform	ND	L 6.7	ug/Kg	1	12/18/19	JLI	SW8260C
Bromomethane	ND	L 6.7	ug/Kg	1	12/18/19	JLI	SW8260C
Carbon tetrachloride	ND	L 6.7	ug/Kg	1	12/18/19	JLI	SW8260C
Chlorobenzene	ND	L 6.7	ug/Kg	1	12/18/19	JLI	SW8260C
Chloroethane	ND	L 6.7	ug/Kg	1	12/18/19	JLI	SW8260C
Chloroform	ND	L 6.7	ug/Kg	1	12/18/19	JLI	SW8260C
Chloromethane	ND	L 6.7	ug/Kg	1	12/18/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 6.7	ug/Kg	1	12/18/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 6.7	ug/Kg	1	12/18/19	JLI	SW8260C
Dibromochloromethane	ND	L 6.7	ug/Kg	1	12/18/19	JLI	SW8260C
Dibromomethane	ND	L 6.7	ug/Kg	1	12/18/19	JLI	SW8260C
Dichlorodifluoromethane	ND	L 6.7	ug/Kg	1	12/18/19	JLI	SW8260C
Methylene chloride	16	SL 6.7	ug/Kg	1	12/18/19	JLI	SW8260C
Tetrachloroethene	1100	L 420	ug/Kg	50	12/19/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 6.7	ug/Kg	1	12/18/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 6.7	ug/Kg	1	12/18/19	JLI	SW8260C
Trichloroethene	260	L 250	ug/Kg	50	12/19/19	JLI	SW8260C
Trichlorofluoromethane	ND	L 6.7	ug/Kg	1	12/18/19	JLI	SW8260C
Vinyl chloride	ND	L 6.7	ug/Kg	1	12/18/19	JLI	SW8260C

QA/QC Surrogates

% 1,2-dichlorobenzene-d4	97		%	1	12/18/19	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	12/18/19	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	12/18/19	JLI	70 - 130 %
% Toluene-d8	94		%	1	12/18/19	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	97		%	50	12/19/19	JLI	70 - 130 %
% Bromofluorobenzene (50x)	98		%	50	12/19/19	JLI	70 - 130 %
% Dibromofluoromethane (50x)	90		%	50	12/19/19	JLI	70 - 130 %
% Toluene-d8 (50x)	93		%	50	12/19/19	JLI	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	310	ug/Kg	1	12/10/19	WB	SW8270D
Acenaphthene	ND	310	ug/Kg	1	12/10/19	WB	SW8270D
Acenaphthylene	ND	310	ug/Kg	1	12/10/19	WB	SW8270D

Client ID: TP-7 (1'-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Anthracene	ND	310	ug/Kg	1	12/10/19	WB	SW8270D
Benz(a)anthracene	ND	310	ug/Kg	1	12/10/19	WB	SW8270D
Benzo(a)pyrene	ND	310	ug/Kg	1	12/10/19	WB	SW8270D
Benzo(b)fluoranthene	ND	310	ug/Kg	1	12/10/19	WB	SW8270D
Benzo(ghi)perylene	ND	310	ug/Kg	1	12/10/19	WB	SW8270D
Benzo(k)fluoranthene	ND	310	ug/Kg	1	12/10/19	WB	SW8270D
Chrysene	330	310	ug/Kg	1	12/10/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	310	ug/Kg	1	12/10/19	WB	SW8270D
Fluoranthene	640	310	ug/Kg	1	12/10/19	WB	SW8270D
Fluorene	ND	310	ug/Kg	1	12/10/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	310	ug/Kg	1	12/10/19	WB	SW8270D
Naphthalene	ND	310	ug/Kg	1	12/10/19	WB	SW8270D
Phenanthrene	490	310	ug/Kg	1	12/10/19	WB	SW8270D
Pyrene	540	310	ug/Kg	1	12/10/19	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	62		%	1	12/10/19	WB	30 - 130 %
% Nitrobenzene-d5	60		%	1	12/10/19	WB	30 - 130 %
% Terphenyl-d14	68		%	1	12/10/19	WB	30 - 130 %

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:

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

December 20, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

December 20, 2019

FOR: Attn: Mr. David Pelletier
Jade Environmental, Inc.
14 Ridgecrest Dr
Wingdale, NY 12594

Sample Information

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

Custody Information

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

Date

12/08/19
12/09/19 16:32

Time

Laboratory Data

SDG ID: GCE83263
Phoenix ID: CE83266

Project ID: LOCKPORT BLDG #3
Client ID: TP-4 (1'-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	8.54	0.71	mg/Kg	1	12/10/19	CPP	SW6010D
Barium	169	0.35	mg/Kg	1	12/10/19	CPP	SW6010D
Cadmium	0.43	0.35	mg/Kg	1	12/10/19	CPP	SW6010D
Chromium	9.34	0.35	mg/Kg	1	12/10/19	CPP	SW6010D
Lead	370	0.35	mg/Kg	1	12/10/19	CPP	SW6010D
Mercury	0.08	0.03	mg/Kg	2	12/10/19	RS	SW7471B
Selenium	< 1.4	1.4	mg/Kg	1	12/10/19	TH	SW6010D
Silver	< 0.35	0.35	mg/Kg	1	12/10/19	CPP	SW6010D
Percent Solid	86		%		12/09/19	VT	SW846-%Solid
Soil Extraction for PCB	Completed				12/09/19	MM/L	SW3545A
Soil Extraction SVOA PAH	Completed				12/09/19	KK/LA	SW3545A
Mercury Digestion	Completed				12/10/19	LS/W	SW7471B
Total Metals Digest	Completed				12/09/19	JJ/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	380	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	12/10/19	SC	SW8082A

QA/QC Surrogates

% DCBP	71	%	10	12/10/19	SC	30 - 150 %
% DCBP (Confirmation)	72	%	10	12/10/19	SC	30 - 150 %
% TCMX	67	%	10	12/10/19	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX (Confirmation)	68		%	10	12/10/19	SC	30 - 150 %

Halogenated Volatiles

1,1,1,2-Tetrachloroethane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
1,1-Dichloroethane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
1,1-Dichloroethene	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
1,2-Dichloroethane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
1,2-Dichloropropane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Bromobenzene	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Bromodichloromethane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Bromoform	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Bromomethane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Carbon tetrachloride	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Chlorobenzene	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Chloroethane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Chloroform	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Chloromethane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Dibromochloromethane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Dibromomethane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Dichlorodifluoromethane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Methylene chloride	9.1	SL 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Tetrachloroethene	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Trichloroethene	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Trichlorofluoromethane	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C
Vinyl chloride	ND	L 5.8	ug/Kg	1	12/18/19	JLI	SW8260C

QA/QC Surrogates

% 1,2-dichlorobenzene-d4	96		%	1	12/18/19	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	12/18/19	JLI	70 - 130 %
% Dibromofluoromethane	85		%	1	12/18/19	JLI	70 - 130 %
% Toluene-d8	93		%	1	12/18/19	JLI	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	270	ug/Kg	1	12/10/19	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	12/10/19	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	12/10/19	WB	SW8270D
Anthracene	530	270	ug/Kg	1	12/10/19	WB	SW8270D
Benz(a)anthracene	1700	270	ug/Kg	1	12/10/19	WB	SW8270D
Benzo(a)pyrene	1400	270	ug/Kg	1	12/10/19	WB	SW8270D
Benzo(b)fluoranthene	1200	270	ug/Kg	1	12/10/19	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(ghi)perylene	730	270	ug/Kg	1	12/10/19	WB	SW8270D
Benzo(k)fluoranthene	1200	270	ug/Kg	1	12/10/19	WB	SW8270D
Chrysene	1700	270	ug/Kg	1	12/10/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	12/10/19	WB	SW8270D
Fluoranthene	3100	270	ug/Kg	1	12/10/19	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	12/10/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	830	270	ug/Kg	1	12/10/19	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	12/10/19	WB	SW8270D
Phenanthrene	2500	270	ug/Kg	1	12/10/19	WB	SW8270D
Pyrene	2800	270	ug/Kg	1	12/10/19	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	62		%	1	12/10/19	WB	30 - 130 %
% Nitrobenzene-d5	65		%	1	12/10/19	WB	30 - 130 %
% Terphenyl-d14	62		%	1	12/10/19	WB	30 - 130 %

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:

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

December 20, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

December 20, 2019

FOR: Attn: Mr. David Pelletier
Jade Environmental, Inc.
14 Ridgecrest Dr
Wingdale, NY 12594

Sample Information

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

Custody Information

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

Date Time
12/08/19
12/09/19 16:32

Laboratory Data

SDG ID: GCE83263
Phoenix ID: CE83267

Project ID: LOCKPORT BLDG #3
Client ID: TP-5 (1'-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	6.79	0.76	mg/Kg	1	12/10/19	CPP	SW6010D
Barium	149	0.38	mg/Kg	1	12/10/19	CPP	SW6010D
Cadmium	< 0.38	0.38	mg/Kg	1	12/10/19	CPP	SW6010D
Chromium	12.7	0.38	mg/Kg	1	12/10/19	CPP	SW6010D
Lead	68.8	0.38	mg/Kg	1	12/10/19	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	12/10/19	RS	SW7471B
Selenium	< 1.5	1.5	mg/Kg	1	12/10/19	TH	SW6010D
Silver	< 0.38	0.38	mg/Kg	1	12/10/19	CPP	SW6010D
Percent Solid	85		%		12/09/19	VT	SW846-%Solid
Soil Extraction for PCB	Completed				12/09/19	MM/L	SW3545A
Soil Extraction SVOA PAH	Completed				12/09/19	KK/LA	SW3545A
Mercury Digestion	Completed				12/10/19	LS/W	SW7471B
Total Metals Digest	Completed				12/09/19	JJ/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	390	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1260	ND	390	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	12/10/19	SC	SW8082A

QA/QC Surrogates

% DCBP	80	%	10	12/10/19	SC	30 - 150 %
% DCBP (Confirmation)	80	%	10	12/10/19	SC	30 - 150 %
% TCMX	75	%	10	12/10/19	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX (Confirmation)	76		%	10	12/10/19	SC	30 - 150 %

Halogenated Volatiles

1,1,1,2-Tetrachloroethane	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
1,1-Dichloroethane	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
1,1-Dichloroethene	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
1,2-Dichloroethane	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
1,2-Dichloropropane	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
Bromobenzene	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
Bromodichloromethane	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
Bromoform	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
Bromomethane	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
Carbon tetrachloride	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
Chlorobenzene	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
Chloroethane	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
Chloroform	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
Chloromethane	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
Dibromochloromethane	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
Dibromomethane	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
Dichlorodifluoromethane	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
Methylene chloride	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
Tetrachloroethene	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
Trichloroethene	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
Trichlorofluoromethane	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C
Vinyl chloride	ND	L 5.9	ug/Kg	1	12/19/19	JLI	SW8260C

QA/QC Surrogates

% 1,2-dichlorobenzene-d4	96		%	1	12/19/19	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	12/19/19	JLI	70 - 130 %
% Dibromofluoromethane	75		%	1	12/19/19	JLI	70 - 130 %
% Toluene-d8	93		%	1	12/19/19	JLI	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	270	ug/Kg	1	12/10/19	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	12/10/19	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	12/10/19	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	12/10/19	WB	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	12/10/19	WB	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	12/10/19	WB	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	12/10/19	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(ghi)perylene	ND	270	ug/Kg	1	12/10/19	WB	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	12/10/19	WB	SW8270D
Chrysene	ND	270	ug/Kg	1	12/10/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	12/10/19	WB	SW8270D
Fluoranthene	500	270	ug/Kg	1	12/10/19	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	12/10/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	12/10/19	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	12/10/19	WB	SW8270D
Phenanthrene	370	270	ug/Kg	1	12/10/19	WB	SW8270D
Pyrene	380	270	ug/Kg	1	12/10/19	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	47		%	1	12/10/19	WB	30 - 130 %
% Nitrobenzene-d5	47		%	1	12/10/19	WB	30 - 130 %
% Terphenyl-d14	50		%	1	12/10/19	WB	30 - 130 %

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.

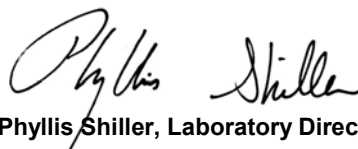
Comments:

Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

December 20, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

December 20, 2019

FOR: Attn: Mr. David Pelletier
Jade Environmental, Inc.
14 Ridgecrest Dr
Wingdale, NY 12594

Sample Information

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

Custody Information

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

Date

12/08/19
12/09/19 16:32

Laboratory Data

SDG ID: GCE83263
Phoenix ID: CE83268

Project ID: LOCKPORT BLDG #3
Client ID: TP-6 (1'-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	4.96	0.72	mg/Kg	1	12/10/19	CPP	SW6010D
Barium	453	0.36	mg/Kg	1	12/10/19	CPP	SW6010D
Cadmium	1.12	0.36	mg/Kg	1	12/10/19	CPP	SW6010D
Chromium	9.12	0.36	mg/Kg	1	12/10/19	CPP	SW6010D
Lead	541	0.36	mg/Kg	1	12/10/19	CPP	SW6010D
Mercury	0.13	0.03	mg/Kg	2	12/10/19	RS	SW7471B
Selenium	< 1.4	1.4	mg/Kg	1	12/10/19	TH	SW6010D
Silver	< 0.36	0.36	mg/Kg	1	12/10/19	CPP	SW6010D
Percent Solid	90		%		12/09/19	VT	SW846-%Solid
Soil Extraction for PCB	Completed				12/09/19	MM/L	SW3545A
Soil Extraction SVOA PAH	Completed				12/09/19	KK/LA	SW3545A
Mercury Digestion	Completed				12/10/19	LS/W	SW7471B
Total Metals Digest	Completed				12/09/19	JJ/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	370	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	12/10/19	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	12/10/19	SC	SW8082A

QA/QC Surrogates

% DCBP	84	%	10	12/10/19	SC	30 - 150 %
% DCBP (Confirmation)	85	%	10	12/10/19	SC	30 - 150 %
% TCMX	78	%	10	12/10/19	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX (Confirmation)	79		%	10	12/10/19	SC	30 - 150 %

Halogenated Volatiles

1,1,1,2-Tetrachloroethane	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
1,1-Dichloroethane	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
1,1-Dichloroethene	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
1,2-Dichloroethane	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
1,2-Dichloropropane	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
Bromobenzene	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
Bromodichloromethane	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
Bromoform	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
Bromomethane	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
Carbon tetrachloride	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
Chlorobenzene	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
Chloroethane	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
Chloroform	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
Chloromethane	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
Dibromochloromethane	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
Dibromomethane	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
Dichlorodifluoromethane	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
Methylene chloride	12	SL 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
Tetrachloroethene	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
Trichloroethene	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
Trichlorofluoromethane	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C
Vinyl chloride	ND	L 5.6	ug/Kg	1	12/18/19	JLI	SW8260C

QA/QC Surrogates

% 1,2-dichlorobenzene-d4	96		%	1	12/18/19	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	12/18/19	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	12/18/19	JLI	70 - 130 %
% Toluene-d8	93		%	1	12/18/19	JLI	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	1900	250	ug/Kg	1	12/10/19	WB	SW8270D
Acenaphthene	2200	250	ug/Kg	1	12/10/19	WB	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	12/10/19	WB	SW8270D
Anthracene	3400	250	ug/Kg	1	12/10/19	WB	SW8270D
Benz(a)anthracene	3200	250	ug/Kg	1	12/10/19	WB	SW8270D
Benzo(a)pyrene	1900	250	ug/Kg	1	12/10/19	WB	SW8270D
Benzo(b)fluoranthene	1300	250	ug/Kg	1	12/10/19	WB	SW8270D

Client ID: TP-6 (1`-2`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(ghi)perylene	580	250	ug/Kg	1	12/10/19	WB	SW8270D
Benzo(k)fluoranthene	1600	250	ug/Kg	1	12/10/19	WB	SW8270D
Chrysene	2700	250	ug/Kg	1	12/10/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	12/10/19	WB	SW8270D
Fluoranthene	5100	250	ug/Kg	1	12/10/19	WB	SW8270D
Fluorene	2200	250	ug/Kg	1	12/10/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	750	250	ug/Kg	1	12/10/19	WB	SW8270D
Naphthalene	1400	250	ug/Kg	1	12/10/19	WB	SW8270D
Phenanthrene	13000	2500	ug/Kg	10	12/11/19	WB	SW8270D
Pyrene	4300	250	ug/Kg	1	12/10/19	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	53		%	1	12/10/19	WB	30 - 130 %
% Nitrobenzene-d5	50		%	1	12/10/19	WB	30 - 130 %
% Terphenyl-d14	55		%	1	12/10/19	WB	30 - 130 %
% 2-Fluorobiphenyl (10x)	Diluted Out		%	10	12/11/19	WB	30 - 130 %
% Nitrobenzene-d5 (10x)	Diluted Out		%	10	12/11/19	WB	30 - 130 %
% Terphenyl-d14 (10x)	Diluted Out		%	10	12/11/19	WB	30 - 130 %

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:

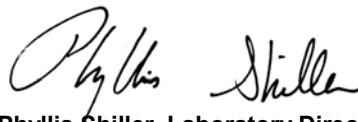
Volatile Comment:

L flag signifies that this sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

December 20, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

December 20, 2019

FOR: Attn: Mr. David Pelletier
Jade Environmental, Inc.
14 Ridgecrest Dr
Wingdale, NY 12594

Sample Information

Matrix: WATER
Location Code: JADEENV
Rush Request: 72 Hour
P.O.#:

Custody Information

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

Date Time
12/08/19
12/09/19 16:32

Laboratory Data

SDG ID: GCE83263
Phoenix ID: CE83269

Project ID: LOCKPORT BLDG #3
Client ID: POT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum	17.2	0.10	mg/L	5	12/12/19	TH	SW6010D/E200.7
Antimony	< 0.025	0.025	mg/L	5	12/12/19	TH	SW6010D/E200.7
Arsenic	< 0.020	0.020	mg/L	5	12/12/19	TH	SW6010D/E200.7
Barium	0.108	0.010	mg/L	5	12/12/19	TH	SW6010D/E200.7
Beryllium	< 0.005	0.005	mg/L	5	12/12/19	TH	SW6010D/E200.7
Calcium	56.8	0.050	mg/L	5	12/12/19	TH	SW6010D/E200.7
Cadmium	0.022	0.005	mg/L	5	12/12/19	TH	SW6010D/E200.7
Chromium	0.014	0.005	mg/L	5	12/12/19	TH	SW6010D/E200.7
Cobalt	0.051	0.010	mg/L	5	12/12/19	TH	SW6010D/E200.7
Copper	2.06	0.025	mg/L	5	12/12/19	TH	SW6010D/E200.7
Iron	5.72	0.050	mg/L	5	12/12/19	TH	SW6010D/E200.7
Lead	0.456	0.010	mg/L	5	12/12/19	TH	SW6010D/E200.7
Magnesium	10.7	0.050	mg/L	5	12/12/19	TH	SW6010D/E200.7
Manganese	0.453	0.005	mg/L	5	12/12/19	TH	SW6010D/E200.7
Mercury	< 0.002	0.002	mg/L	1	12/12/19	RS	SW7470/E245.1
Nickel	0.258	0.005	mg/L	5	12/12/19	TH	SW6010D/E200.7
Potassium	658	100	mg/L	1000	12/12/19	TH	SW6010D/E200.7
Selenium	< 0.050	0.050	mg/L	5	12/12/19	TH	SW6010D/E200.7
Silver	< 0.005	0.005	mg/L	5	12/12/19	CPP	SW6010D/E200.7
Sodium	4470	100	mg/L	1000	12/12/19	TH	SW6010D/E200.7
Thallium	< 0.0005	0.0005	mg/L	5	12/12/19	CPP	SW6020B/E200.8
Vanadium	0.044	0.010	mg/L	5	12/12/19	TH	SW6010D/E200.7
Zinc	3.93	0.020	mg/L	5	12/12/19	TH	SW6010D/E200.7
Mercury Digestion	Completed				12/11/19	LS/LS	SW7470/245.1
Total Metals Digestion	Completed				12/10/19	AG	
Total Metals Digestion MS	Completed				12/10/19	AG	

Project ID: LOCKPORT BLDG #3

Phoenix I.D.: CE83269

Client ID: POT

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

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

December 20, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823



QA/QC Report

December 20, 2019

QA/QC Data

SDG I.D.: GCE83263

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCS %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 509487 (mg/kg), QC Sample No: CE82916 2X (CE83263, CE83264, CE83265, CE83266, CE83267, CE83268)

Mercury - Soil	BRL	0.03	0.82	1.14	32.7	102	109	6.6	115	>125	NC	70 - 130	30	m,r
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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 509702 (mg/L), QC Sample No: CE83483 (CE83269)

Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	103			93.8			80 - 120	20
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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 509578 (mg/L), QC Sample No: CE82439 (CE83269)

ICP Metals - Aqueous

Aluminum	BRL	0.020	0.031	0.029	NC	93.8	93.2	0.6	97.6	75 - 125	20
Antimony	BRL	0.005	<0.005	<0.005	NC	102	101	1.0	103	75 - 125	20
Arsenic	BRL	0.004	<0.004	<0.004	NC	92.1	91.1	1.1	93.2	75 - 125	20
Barium	BRL	0.002	<0.002	<0.002	NC	95.9	93.8	2.2	96.9	75 - 125	20
Beryllium	BRL	0.001	<0.001	<0.001	NC	103	103	0.0	105	75 - 125	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	96.6	96.4	0.2	98.1	75 - 125	20
Calcium	BRL	0.010	0.101	0.099	2.00	97.8	97.6	0.2	100	75 - 125	20
Chromium	BRL	0.001	<0.001	<0.001	NC	96.0	95.5	0.5	98.2	75 - 125	20
Cobalt	BRL	0.002	<0.002	<0.002	NC	95.5	95.1	0.4	97.3	75 - 125	20
Copper	BRL	0.005	0.048	0.047	2.10	97.3	96.9	0.4	101	75 - 125	20
Iron	BRL	0.010	0.130	0.129	0.80	95.6	94.9	0.7	99.5	75 - 125	20
Lead	BRL	0.002	0.002	<0.002	NC	90.5	89.6	1.0	91.6	75 - 125	20
Magnesium	BRL	0.010	0.064	0.062	3.20	101	99.7	1.3	103	75 - 125	20
Manganese	BRL	0.001	0.034	0.033	3.00	95.9	95.1	0.8	98.0	75 - 125	20
Nickel	BRL	0.001	0.006	0.008	28.6	96.3	99.2	3.0	97.7	75 - 125	20
Potassium	BRL	0.1	0.1	<0.1	NC	98.0	98.6	0.6	102	75 - 125	20
Selenium	BRL	0.010	<0.010	<0.010	NC	90.0	88.8	1.3	87.7	75 - 125	20
Silver	BRL	0.001	<0.001	<0.001	NC	97.2	96.2	1.0	99.2	75 - 125	20
Sodium	BRL	0.10	43.0	41.7	3.10	99.6	101	1.4	NC	75 - 125	20
Vanadium	BRL	0.002	<0.002	<0.002	NC	99.1	98.3	0.8	101	75 - 125	20
Zinc	BRL	0.004	0.007	0.007	NC	96.1	95.7	0.4	97.6	75 - 125	20

QA/QC Batch 509393 (mg/kg), QC Sample No: CE83263 (CE83263, CE83264, CE83265, CE83266, CE83267, CE83268)

ICP Metals - Soil

Arsenic	BRL	0.67	3.90	4.08	NC	104	102	1.9	88.2	75 - 125	30
Barium	BRL	0.33	139	105	27.9	92.4	88.6	4.2	89.8	75 - 125	30
Cadmium	BRL	0.33	0.49	0.52	NC	93.4	81.7	13.4	90.0	75 - 125	30
Chromium	BRL	0.33	27.1	24.0	12.1	115	114	0.9	95.5	75 - 125	30
Lead	BRL	0.33	18.8	100	137	107	105	1.9	120	75 - 125	30
Selenium	BRL	1.3	<1.6	<1.5	NC	81.8	80.8	1.2	93.5	75 - 125	30
Silver	BRL	0.33	<0.39	<0.37	NC	110	111	0.9	98.4	75 - 125	30

QA/QC Data

SDG I.D.: GCE83263

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 509571 (mg/L), QC Sample No: CE82844 5X (CE83269)													
<u>ICP MS Metals - Aqueous</u>													
Thallium	BRL	0.0005	<0.0005	<0.0005	NC	99.6	98.8	0.8	96.4			75 - 125	20

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

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



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QA/QC Report

December 20, 2019

QA/QC Data

SDG I.D.: GCE83263

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 509434 (ug/Kg), QC Sample No: CE83135 2X (CE83263, CE83264, CE83265, CE83266, CE83267, CE83268)										
Polychlorinated Biphenyls - Soil										
PCB-1016	ND	33	76	80	5.1	81	85	4.8	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	83	67	21.3	74	73	1.4	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	73	%	94	72	26.5	82	76	7.6	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	75	%	96	80	18.2	90	84	6.9	30 - 150	30
% TCMX (Surrogate Rec)	53	%	76	74	2.7	74	80	7.8	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	53	%	79	74	6.5	73	80	9.2	30 - 150	30
QA/QC Batch 509380 (ug/kg), QC Sample No: CE83075 (CE83263, CE83264, CE83265, CE83266, CE83267, CE83268)										
Polynuclear Aromatic HC - Soil										
2-Methylnaphthalene	ND	230	54	59	8.8	57	63	10.0	30 - 130	30
Acenaphthene	ND	230	58	62	6.7	61	66	7.9	30 - 130	30
Acenaphthylene	ND	230	57	60	5.1	59	64	8.1	30 - 130	30
Anthracene	ND	230	62	64	3.2	63	70	10.5	30 - 130	30
Benz(a)anthracene	ND	230	67	71	5.8	67	75	11.3	30 - 130	30
Benzo(a)pyrene	ND	230	69	73	5.6	69	78	12.2	30 - 130	30
Benzo(b)fluoranthene	ND	230	66	70	5.9	65	73	11.6	30 - 130	30
Benzo(ghi)perylene	ND	230	67	72	7.2	65	74	12.9	30 - 130	30
Benzo(k)fluoranthene	ND	230	65	69	6.0	64	73	13.1	30 - 130	30
Chrysene	ND	230	65	69	6.0	65	72	10.2	30 - 130	30
Dibenz(a,h)anthracene	ND	230	74	80	7.8	73	82	11.6	30 - 130	30
Fluoranthene	ND	230	63	67	6.2	62	69	10.7	30 - 130	30
Fluorene	ND	230	59	61	3.3	59	65	9.7	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	230	66	71	7.3	66	74	11.4	30 - 130	30
Naphthalene	ND	230	50	54	7.7	53	58	9.0	30 - 130	30
Phenanthrene	ND	230	61	63	3.2	62	69	10.7	30 - 130	30
Pyrene	ND	230	65	69	6.0	64	71	10.4	30 - 130	30
% 2-Fluorobiphenyl	24	%	55	58	5.3	56	62	10.2	30 - 130	30 s
% Nitrobenzene-d5	24	%	52	58	10.9	55	60	8.7	30 - 130	30 s
% Terphenyl-d14	28	%	55	59	7.0	54	60	10.5	30 - 130	30 s

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 Data

SDG I.D.: GCE83263

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 510812 (ug/kg), QC Sample No: CE88887 (CE83263, CE83264, CE83265, CE83266, CE83268)										
Volatiles - Soil (Low Level)										
1,1,1,2-Tetrachloroethane	ND	5.0	99	99	0.0				70 - 130	30
1,1,1-Trichloroethane	ND	5.0	93	92	1.1				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	97	94	3.1				70 - 130	30
1,1,2-Trichloroethane	ND	5.0	95	96	1.0				70 - 130	30
1,1-Dichloroethane	ND	5.0	95	93	2.1				70 - 130	30
1,1-Dichloroethene	ND	5.0	98	97	1.0				70 - 130	30
1,2,3-Trichloropropane	ND	5.0	94	90	4.3				70 - 130	30
1,2-Dichlorobenzene	ND	5.0	96	93	3.2				70 - 130	30
1,2-Dichloroethane	ND	5.0	95	93	2.1				70 - 130	30
1,2-Dichloropropane	ND	5.0	99	99	0.0				70 - 130	30
1,3-Dichlorobenzene	ND	5.0	96	95	1.0				70 - 130	30
1,4-Dichlorobenzene	ND	5.0	93	92	1.1				70 - 130	30
Bromobenzene	ND	5.0	98	96	2.1				70 - 130	30
Bromodichloromethane	ND	5.0	100	99	1.0				70 - 130	30
Bromoform	ND	5.0	97	95	2.1				70 - 130	30
Bromomethane	ND	5.0	107	106	0.9				70 - 130	30
Carbon tetrachloride	ND	5.0	95	94	1.1				70 - 130	30
Chlorobenzene	ND	5.0	97	97	0.0				70 - 130	30
Chloroethane	ND	5.0	105	100	4.9				70 - 130	30
Chloroform	ND	5.0	92	91	1.1				70 - 130	30
Chloromethane	ND	5.0	99	97	2.0				70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	99	97	2.0				70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	99	99	0.0				70 - 130	30
Dibromochloromethane	ND	3.0	102	101	1.0				70 - 130	30
Dibromomethane	ND	5.0	97	96	1.0				70 - 130	30
Dichlorodifluoromethane	ND	5.0	108	106	1.9				70 - 130	30
Methylene chloride	ND	5.0	90	86	4.5				70 - 130	30
Tetrachloroethene	ND	5.0	104	101	2.9				70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	102	100	2.0				70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	99	98	1.0				70 - 130	30
Trichloroethene	ND	5.0	101	100	1.0				70 - 130	30
Trichlorofluoromethane	ND	5.0	103	100	3.0				70 - 130	30
Vinyl chloride	ND	5.0	97	96	1.0				70 - 130	30
% 1,2-dichlorobenzene-d4	95	%	100	97	3.0				70 - 130	30
% Bromofluorobenzene	96	%	97	99	2.0				70 - 130	30
% Dibromofluoromethane	94	%	93	97	4.2				70 - 130	30
% Toluene-d8	92	%	100	100	0.0				70 - 130	30

Comment:

The Low Level MS/MSD are not reported for this 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 511220 (ug/kg), QC Sample No: CE89317 (CE83267)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	88	106	18.6	99	99	0.0	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	86	103	18.0	101	101	0.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	87	105	18.8	94	93	1.1	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	87	105	18.8	99	99	0.0	70 - 130	30
1,1-Dichloroethane	ND	5.0	87	103	16.8	101	102	1.0	70 - 130	30
1,1-Dichloroethene	ND	5.0	94	109	14.8	104	106	1.9	70 - 130	30

QA/QC Data

SDG I.D.: GCE83263

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,2,3-Trichloropropane	ND	5.0	85	104	20.1	90	91	1.1	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	87	104	17.8	94	93	1.1	70 - 130	30
1,2-Dichloroethane	ND	5.0	87	104	17.8	96	96	0.0	70 - 130	30
1,2-Dichloropropane	ND	5.0	89	107	18.4	105	105	0.0	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	88	105	17.6	96	95	1.0	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	87	103	16.8	93	91	2.2	70 - 130	30
Bromobenzene	ND	5.0	86	103	18.0	96	96	0.0	70 - 130	30
Bromodichloromethane	ND	5.0	88	109	21.3	102	102	0.0	70 - 130	30
Bromoform	ND	5.0	87	108	21.5	90	93	3.3	70 - 130	30
Bromomethane	ND	5.0	88	102	14.7	102	100	2.0	70 - 130	30
Carbon tetrachloride	ND	5.0	89	106	17.4	102	105	2.9	70 - 130	30
Chlorobenzene	ND	5.0	89	104	15.5	100	99	1.0	70 - 130	30
Chloroethane	ND	5.0	86	98	13.0	102	101	1.0	70 - 130	30
Chloroform	ND	5.0	86	102	17.0	98	99	1.0	70 - 130	30
Chloromethane	ND	5.0	83	97	15.6	90	91	1.1	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	90	107	17.3	102	103	1.0	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	90	109	19.1	101	102	1.0	70 - 130	30
Dibromochloromethane	ND	3.0	90	109	19.1	100	100	0.0	70 - 130	30
Dibromomethane	ND	5.0	87	106	19.7	98	99	1.0	70 - 130	30
Dichlorodifluoromethane	ND	5.0	95	111	15.5	100	102	2.0	70 - 130	30
Methylene chloride	ND	5.0	64	79	21.0	98	98	0.0	70 - 130	30
Tetrachloroethene	ND	5.0	93	113	19.4	111	112	0.9	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	90	111	20.9	110	110	0.0	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	89	110	21.1	100	100	0.0	70 - 130	30
Trichloroethene	ND	5.0	91	110	18.9	106	108	1.9	70 - 130	30
Trichlorofluoromethane	ND	5.0	86	101	16.0	97	99	2.0	70 - 130	30
Vinyl chloride	ND	5.0	81	93	13.8	91	94	3.2	70 - 130	30
% 1,2-dichlorobenzene-d4	94	%	99	100	1.0	100	99	1.0	70 - 130	30
% Bromofluorobenzene	96	%	98	97	1.0	97	98	1.0	70 - 130	30
% Dibromofluoromethane	95	%	97	95	2.1	96	96	0.0	70 - 130	30
% Toluene-d8	92	%	99	100	1.0	101	101	0.0	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 511220H (ug/kg), QC Sample No: CE89317 50X (CE83265 (50X))

Volatiles - Soil (High Level)

Tetrachloroethene	ND	250	125	125	0.0	122	121	0.8	70 - 130	30
Trichloroethene	ND	250	118	117	0.9	116	115	0.9	70 - 130	30
% 1,2-dichlorobenzene-d4	96	%	100	100	0.0	101	99	2.0	70 - 130	30
% Bromofluorobenzene	98	%	97	96	1.0	97	97	0.0	70 - 130	30
% Dibromofluoromethane	92	%	95	96	1.0	94	95	1.1	70 - 130	30
% Toluene-d8	94	%	102	101	1.0	101	101	0.0	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.

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

s = This parameter is outside laboratory Blank Surrogate specified recovery limits.

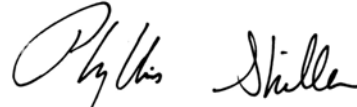
QA/QC Data

SDG I.D.: GCE83263

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								

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
December 20, 2019

Friday, December 20, 2019

Criteria: None

State: NY

Sample Criteria Exceedances Report
GCE83263 - JADEENV

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

December 20, 2019

SDG I.D.: GCE83263

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

VOA Narration

CHEM14 12/17/19-2: CE83263, CE83264, CE83265, CE83266, CE83268

The following Initial Calibration compounds did not meet RSD% criteria: Bromoform 22% (20%)

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

The following Initial Calibration compounds did not meet recommended response factors: Bromoform 0.092 (0.1), Tetrachloroethene 0.193 (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%.

CHEM14 12/19/19-1: CE83265, CE83267

The following Initial Calibration compounds did not meet RSD% criteria: Bromoform 22% (20%)

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

The following Initial Calibration compounds did not meet recommended response factors: Bromoform 0.092 (0.1), Tetrachloroethene 0.193 (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

December 20, 2019

SDG I.D.: GCE83263

The samples in this delivery group were received at 2.3°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

