



Environmental Laboratories, Inc.
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Analysis Report

March 30, 2023

FOR: Attn: Mr Julian Heal
 The Ambient Group
 2515 Glassboro Cross Keys Road
 Williamstown, NJ 08094

Sample Information

Matrix: SOIL
 Location Code: AMB-NJ
 Rush Request: 5 Day
 P.O.#:

Custody Information

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

Date

03/22/23
 03/23/23

Time

14:00
 16:19

Laboratory Data

SDG ID: GCN67156
 Phoenix ID: CN67156

Project ID: CRA-619-635 CHESTNUT
 Client ID: WC-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		03/23/23	al	SW846-%Solid
Soil Extraction for SVOA	Completed				03/24/23	B/B	SW3546

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	03/24/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
1,2-Dibromoethane	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
2-Chlorotoluene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
2-Hexanone	ND	27	ug/Kg	1	03/24/23	JLI	SW8260C

Client ID: WC-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Isopropyltoluene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
4-Chlorotoluene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	27	ug/Kg	1	03/24/23	JLI	SW8260C
Acetone	ND	27	ug/Kg	1	03/24/23	JLI	SW8260C
Acrylonitrile	ND	11	ug/Kg	1	03/24/23	JLI	SW8260C
Benzene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
Bromobenzene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
Bromochloromethane	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
Bromodichloromethane	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
Bromoform	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
Bromomethane	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
Carbon Disulfide	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
Carbon tetrachloride	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
Chlorobenzene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
Chloroethane	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
Chloroform	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
Chloromethane	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
Dibromochloromethane	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
Dibromomethane	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
Ethylbenzene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
Isopropylbenzene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
m&p-Xylene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	27	ug/Kg	1	03/24/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	03/24/23	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	03/24/23	JLI	SW8260C
Naphthalene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
n-Butylbenzene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
n-Propylbenzene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
o-Xylene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
sec-Butylbenzene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
Styrene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
tert-Butylbenzene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
Tetrachloroethene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	03/24/23	JLI	SW8260C
Toluene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
Total Xylenes	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	03/24/23	JLI	SW8260C
Trichloroethene	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C
Vinyl chloride	ND	5.4	ug/Kg	1	03/24/23	JLI	SW8260C

QA/QC Surrogates

Client ID: WC-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 1,2-dichlorobenzene-d4	100		%	1	03/24/23	JLI	70 - 130 %
% Bromofluorobenzene	101		%	1	03/24/23	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	03/24/23	JLI	70 - 130 %
% Toluene-d8	101		%	1	03/24/23	JLI	70 - 130 %
Semivolatiles							
1,1-Biphenyl	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
2,3,4,6-tetrachlorophenol	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
2,4-Dichlorophenol	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
2,4-Dimethylphenol	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
2,4-Dinitrophenol	ND	570	ug/Kg	1	03/25/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
2-Chloronaphthalene	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
2-Chlorophenol	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
2-Methylnaphthalene	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
2-Nitroaniline	ND	570	ug/Kg	1	03/25/23	KCA	SW8270D
2-Nitrophenol	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	03/25/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	430	ug/Kg	1	03/25/23	KCA	SW8270D
3-Nitroaniline	ND	570	ug/Kg	1	03/25/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	1	03/25/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	03/25/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
4-Chloroaniline	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
4-Nitroaniline	ND	570	ug/Kg	1	03/25/23	KCA	SW8270D
4-Nitrophenol	ND	1000	ug/Kg	1	03/25/23	KCA	SW8270D
Acenaphthene	270	250	ug/Kg	1	03/25/23	KCA	SW8270D
Acenaphthylene	320	250	ug/Kg	1	03/25/23	KCA	SW8270D
Acetophenone	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
Anthracene	860	250	ug/Kg	1	03/25/23	KCA	SW8270D
Atrazine	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
Benz(a)anthracene	2500	250	ug/Kg	1	03/25/23	KCA	SW8270D
Benzaldehyde	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
Benzo(a)pyrene	2400	250	ug/Kg	1	03/25/23	KCA	SW8270D
Benzo(b)fluoranthene	2200	250	ug/Kg	1	03/25/23	KCA	SW8270D
Benzo(ghi)perylene	1100	250	ug/Kg	1	03/25/23	KCA	SW8270D
Benzo(k)fluoranthene	2100	250	ug/Kg	1	03/25/23	KCA	SW8270D
Benzyl butyl phthalate	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	03/25/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
Caprolactam	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
Carbazole	450	360	ug/Kg	1	03/25/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chrysene	2500	250	ug/Kg	1	03/25/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	180	ug/Kg	1	03/25/23	KCA	SW8270D
Dibenzofuran	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
Diethyl phthalate	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
Dimethylphthalate	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
Di-n-butylphthalate	ND	720	ug/Kg	1	03/25/23	KCA	SW8270D
Di-n-octylphthalate	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
Fluoranthene	5300	250	ug/Kg	1	03/25/23	KCA	SW8270D
Fluorene	280	250	ug/Kg	1	03/25/23	KCA	SW8270D
Hexachlorobenzene	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
Hexachlorobutadiene	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
Hexachloroethane	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	1300	250	ug/Kg	1	03/25/23	KCA	SW8270D
Isophorone	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
Naphthalene	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
Nitrobenzene	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	360	ug/Kg	1	03/25/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	170	ug/Kg	1	03/25/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	360	ug/Kg	1	03/25/23	KCA	SW8270D
Pentachlorophenol	ND	360	ug/Kg	1	03/25/23	KCA	SW8270D
Phenanthrene	3400	250	ug/Kg	1	03/25/23	KCA	SW8270D
Phenol	ND	250	ug/Kg	1	03/25/23	KCA	SW8270D
Pyrene	4600	250	ug/Kg	1	03/25/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	80		%	1	03/25/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	71		%	1	03/25/23	KCA	30 - 130 %
% 2-Fluorophenol	66		%	1	03/25/23	KCA	30 - 130 %
% Nitrobenzene-d5	69		%	1	03/25/23	KCA	30 - 130 %
% Phenol-d5	73		%	1	03/25/23	KCA	30 - 130 %
% Terphenyl-d14	80		%	1	03/25/23	KCA	30 - 130 %
2,3,7,8- Dioxin (TCDD) Screen	Absent		ug/kg	1	03/30/23	KCA	E625 MOD
SVOA Library Search Top 15	Completed				03/27/23	MR	

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Client ID: WC-1

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

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

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

Comments:

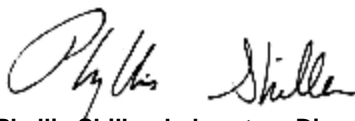
2,3,7,8-dioxin (TCDD) Screen consisted of an ion search of the SVOA analysis for the presence of ions 322, 320, and 324.

Semi-Volatile Comment:

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

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

March 30, 2023

Official Report Release To Follow

Sample Criteria Exceedances Report

GCN67156 - AMB-NJ

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CN67156	\$8270_TCLR	Benzo(a)pyrene	NJ / Soil Remediation Standard / Non Res. Direct Conta	2400	250	2000	200	ug/Kg
CN67156	\$8270_TCLR	Benzo(a)pyrene	NJ / Soil Remediation Standard / Non Res. Ingestion-Der	2400	250	2300	2300	ug/Kg
CN67156	\$8270_TCLR	Benzo(a)pyrene	NJ / Soil Remediation Standard / Res. Direct Contact	2400	250	500	200	ug/Kg
CN67156	\$8270_TCLR	Benzo(a)pyrene	NJ / Soil Remediation Standard / Res. Ingestion-Dermal	2400	250	510	510	ug/Kg

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

