



REQUEST FOR PROPOSALS: NIAGARA FALLS HERITAGE GATEWAYS

Addendum 2

Release Date: July 28, 2022

1. TESTING REPORT FOR CANAL SITE TOPSOIL

The following are the testing results for the new six inches of topsoil that was added to the canal site after demolition of the existing structures in the spring of 2020.

Regional Environmental Demolition Inc.
6281 Wendt Drive
Niagara Falls New York 14304
716-284-3366
716-284-7331 Fax
Rico@redwny.com

**R
E
D
INC.**

Submittal Cover Sheet

Name of Project: Downtown Niagara Demolition Project
Project Number: 2191711

Submittal No. 3-20-13 REVISED

TYPE OF SUBMITTAL (CHECK)

DATE 5-4-20

- DRAWINGS
- PRODUCT DATA
- TEST REPORT
- INFORMATIONAL

- SCHEDULE
- CERTIFICATE
- SAMPLE

COMPLIES WITH SPECIFICATIONS YES
 NO

DESCRIPTION

Earthmoving (Topsoil)
Turf and Grasses

REFERENCES

Spec. Section No. 312000-9 and 32900-5

NO EXCEPTION TAKEN MAKE CORRECTIONS NOTED
REJECTED REVISE AND RESUBMIT
SUBMIT SPECIFIED ITEM

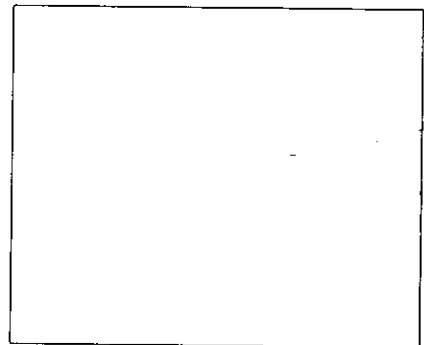
Checking is only for general conformance with the design concept of the Project and General Compliance with the information given in the contract documents. Notations are subject to the requirements of the plans and specifications. Contractor is responsible for dimensions which shall be confirmed and correlated at the job site, fabrication processes and techniques of construction, coordination of his work with that of all other trades and the satisfactory performance of his work.

Date _____

By _____

CONTRACTORS APPROVAL STAMP

APPROVED MAY 04 2010





Civil • Geotechnical
Structural • Architecture
Material Testing • Consulting

Project : Topsoil ~~and Compost~~ Testing
Client: LDC Construction Co.
GGE # : 17-1152
Date: 08.11.17

Analytical Summary

Parameter	Result (ppb)	Residential Use SCO (ppb)
Methylene Chloride	16.1	50
Methylene Chloride	13.0	50
Methylene Chloride	11.6	50
Arsenic	8,200	16,000
Barium	69,800	350,000
Beryllium	465	14,000
Cadmium	186	2,500
Chromium	13,500	19,000
Copper	24,400	270,000
Lead	16,300	400,000
Manganese	1,010,000	2,000,000
Nickel	18,200	130,000
Zinc	108,000	2,200,000
4,4-DDD	2.26	2,600
4,4-DDE	7.06	1,800
4,4-DDT	6.53	1,700
Dieldrin	4.23	39

GLYNN GROUP ENGINEERING & ARCHITECTURE, PLLC

415 South Transit Street, Lockport, New York 14094
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Client: **NWEC&C**
Project Reference: Glynn Gernatt 17-202

Sample Identifier: SS1
Lab Sample ID: 173426-01
Matrix: Soil
Date Sampled: 8/1/2017
Date Received: 8/2/2017

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 4.14	ug/Kg		8/8/2017 13:36
1,1,2,2-Tetrachloroethane	< 4.14	ug/Kg		8/8/2017 13:36
1,1,2-Trichloroethane	< 4.14	ug/Kg		8/8/2017 13:36
1,1-Dichloroethane	< 4.14	ug/Kg		8/8/2017 13:36
1,1-Dichloroethene	< 4.14	ug/Kg		8/8/2017 13:36
1,2,3-Trichlorobenzene	< 10.3	ug/Kg		8/8/2017 13:36
1,2,4-Trichlorobenzene	< 10.3	ug/Kg		8/8/2017 13:36
1,2,4-Trimethylbenzene	< 4.14	ug/Kg		8/8/2017 13:36
1,2-Dibromo-3-Chloropropane	< 20.7	ug/Kg		8/8/2017 13:36
1,2-Dibromoethane	< 4.14	ug/Kg		8/8/2017 13:36
1,2-Dichlorobenzene	< 4.14	ug/Kg		8/8/2017 13:36
1,2-Dichloroethane	< 4.14	ug/Kg		8/8/2017 13:36
1,2-Dichloropropane	< 4.14	ug/Kg		8/8/2017 13:36
1,3,5-Trimethylbenzene	< 4.14	ug/Kg		8/8/2017 13:36
1,3-Dichlorobenzene	< 4.14	ug/Kg		8/8/2017 13:36
1,4-Dichlorobenzene	< 4.14	ug/Kg		8/8/2017 13:36
1,4-dioxane	< 41.4	ug/Kg		8/8/2017 13:36
2-Butanone	< 20.7	ug/Kg		8/8/2017 13:36
2-Hexanone	< 10.3	ug/Kg		8/8/2017 13:36
4-Methyl-2-pentanone	< 10.3	ug/Kg		8/8/2017 13:36
Acetone	< 20.7	ug/Kg		8/8/2017 13:36
Benzene	< 4.14	ug/Kg		8/8/2017 13:36
Bromochloromethane	< 10.3	ug/Kg		8/8/2017 13:36
Bromodichloromethane	< 4.14	ug/Kg		8/8/2017 13:36
Bromoform	< 10.3	ug/Kg		8/8/2017 13:36
Bromomethane	< 4.14	ug/Kg		8/8/2017 13:36
Carbon disulfide	< 4.14	ug/Kg		8/8/2017 13:36

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Wednesday, August 9, 2017



PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 173426

Client: **NWEC&C**

Project Reference: Glynn Gernatt 17-202

Sample Identifier:	SS1		
Lab Sample ID:	173426-01	Date Sampled:	8/1/2017
Matrix:	Soil	Date Received:	8/2/2017

Carbon Tetrachloride	< 4.14	ug/Kg	8/8/2017 13:36
Chlorobenzene	< 4.14	ug/Kg	8/8/2017 13:36
Chloroethane	< 4.14	ug/Kg	8/8/2017 13:36
Chloroform	< 4.14	ug/Kg	8/8/2017 13:36
Chloromethane	< 4.14	ug/Kg	8/8/2017 13:36
cis-1,2-Dichloroethene	< 4.14	ug/Kg	8/8/2017 13:36
cis-1,3-Dichloropropene	< 4.14	ug/Kg	8/8/2017 13:36
Cyclohexane	< 20.7	ug/Kg	8/8/2017 13:36
Dibromochloromethane	< 4.14	ug/Kg	8/8/2017 13:36
Dichlorodifluoromethane	< 4.14	ug/Kg	8/8/2017 13:36
Ethylbenzene	< 4.14	ug/Kg	8/8/2017 13:36
Freon 113	< 4.14	ug/Kg	8/8/2017 13:36
Isopropylbenzene	< 4.14	ug/Kg	8/8/2017 13:36
m,p-Xylene	< 4.14	ug/Kg	8/8/2017 13:36
Methyl acetate	< 4.14	ug/Kg	8/8/2017 13:36
Methyl tert-butyl Ether	< 4.14	ug/Kg	8/8/2017 13:36
Methylcyclohexane	< 4.14	ug/Kg	8/8/2017 13:36
Methylene chloride	16.1	ug/Kg	8/8/2017 13:36
Naphthalene	< 10.3	ug/Kg	8/8/2017 13:36
n-Butylbenzene	< 4.14	ug/Kg	8/8/2017 13:36
n-Propylbenzene	< 4.14	ug/Kg	8/8/2017 13:36
o-Xylene	< 4.14	ug/Kg	8/8/2017 13:36
p-Isopropyltoluene	< 4.14	ug/Kg	8/8/2017 13:36
sec-Butylbenzene	< 4.14	ug/Kg	8/8/2017 13:36
Styrene	< 10.3	ug/Kg	8/8/2017 13:36
tert-Butylbenzene	< 4.14	ug/Kg	8/8/2017 13:36
Tetrachloroethene	< 4.14	ug/Kg	8/8/2017 13:36
Toluene	< 4.14	ug/Kg	8/8/2017 13:36
trans-1,2-Dichloroethene	< 4.14	ug/Kg	8/8/2017 13:36
trans-1,3-Dichloropropene	< 4.14	ug/Kg	8/8/2017 13:36

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Report Prepared Wednesday, August 9, 2017



Client: **NWEC&C**
Project Reference: **Glynn Gernatt 17-202**

Sample Identifier:	SS1				
Lab Sample ID:	173426-01			Date Sampled:	8/1/2017
Matrix:	Soil			Date Received:	8/2/2017
Trichloroethene	< 4.14	ug/Kg			8/8/2017 13:36
Trichlorofluoromethane	< 4.14	ug/Kg			8/8/2017 13:36
Vinyl chloride	< 4.14	ug/Kg			8/8/2017 13:36
Surrogate		Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4		109	86.2 - 128		8/8/2017 13:36
4-Bromofluorobenzene		69.5	69.8 - 123	*	8/8/2017 13:36
Pentafluorobenzene		95.3	82.2 - 114		8/8/2017 13:36
Toluene-D8		84.7	81.3 - 113		8/8/2017 13:36

Internal standard outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035A - L
Data File: x43942.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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Report Prepared Wednesday, August 9, 2017



Client: **NWEC&C**
Project Reference: Glynn Gernatt 17-202

Sample Identifier:	SS2	Date Sampled:	8/1/2017
Lab Sample ID:	173426-02	Date Received:	8/2/2017
Matrix:	Soil		

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 4.38	ug/Kg		8/8/2017 14:00
1,1,2,2-Tetrachloroethane	< 4.38	ug/Kg		8/8/2017 14:00
1,1,2-Trichloroethane	< 4.38	ug/Kg		8/8/2017 14:00
1,1-Dichloroethane	< 4.38	ug/Kg		8/8/2017 14:00
1,1-Dichloroethene	< 4.38	ug/Kg		8/8/2017 14:00
1,2,3-Trichlorobenzene	< 11.0	ug/Kg		8/8/2017 14:00
1,2,4-Trichlorobenzene	< 11.0	ug/Kg		8/8/2017 14:00
1,2,4-Trimethylbenzene	< 4.38	ug/Kg		8/8/2017 14:00
1,2-Dibromo-3-Chloropropane	< 21.9	ug/Kg		8/8/2017 14:00
1,2-Dibromoethane	< 4.38	ug/Kg		8/8/2017 14:00
1,2-Dichlorobenzene	< 4.38	ug/Kg		8/8/2017 14:00
1,2-Dichloroethane	< 4.38	ug/Kg		8/8/2017 14:00
1,2-Dichloropropane	< 4.38	ug/Kg		8/8/2017 14:00
1,3,5-Trimethylbenzene	< 4.38	ug/Kg		8/8/2017 14:00
1,3-Dichlorobenzene	< 4.38	ug/Kg		8/8/2017 14:00
1,4-Dichlorobenzene	< 4.38	ug/Kg		8/8/2017 14:00
1,4-dioxane	< 43.8	ug/Kg		8/8/2017 14:00
2-Butanone	< 21.9	ug/Kg		8/8/2017 14:00
2-Hexanone	< 11.0	ug/Kg		8/8/2017 14:00
4-Methyl-2-pentanone	< 11.0	ug/Kg		8/8/2017 14:00
Acetone	< 21.9	ug/Kg		8/8/2017 14:00
Benzene	< 4.38	ug/Kg		8/8/2017 14:00
Bromochloromethane	< 11.0	ug/Kg		8/8/2017 14:00
Bromodichloromethane	< 4.38	ug/Kg		8/8/2017 14:00
Bromoform	< 11.0	ug/Kg		8/8/2017 14:00
Bromomethane	< 4.38	ug/Kg		8/8/2017 14:00
Carbon disulfide	< 4.38	ug/Kg		8/8/2017 14:00

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Report Prepared Wednesday, August 9, 2017



Client: **NWEC&C**

Project Reference: Glynn Gernatt 17-202

Sample Identifier:	SS2		
Lab Sample ID:	173426-02	Date Sampled:	8/1/2017
Matrix:	Soil	Date Received:	8/2/2017
Carbon Tetrachloride	< 4.38	ug/Kg	8/8/2017 14:00
Chlorobenzene	< 4.38	ug/Kg	8/8/2017 14:00
Chloroethane	< 4.38	ug/Kg	8/8/2017 14:00
Chloroform	< 4.38	ug/Kg	8/8/2017 14:00
Chloromethane	< 4.38	ug/Kg	8/8/2017 14:00
cis-1,2-Dichloroethene	< 4.38	ug/Kg	8/8/2017 14:00
cis-1,3-Dichloropropene	< 4.38	ug/Kg	8/8/2017 14:00
Cyclohexane	< 21.9	ug/Kg	8/8/2017 14:00
Dibromochloromethane	< 4.38	ug/Kg	8/8/2017 14:00
Dichlorodifluoromethane	< 4.38	ug/Kg	8/8/2017 14:00
Ethylbenzene	< 4.38	ug/Kg	8/8/2017 14:00
Freon 113	< 4.38	ug/Kg	8/8/2017 14:00
Isopropylbenzene	< 4.38	ug/Kg	8/8/2017 14:00
m,p-Xylene	< 4.38	ug/Kg	8/8/2017 14:00
Methyl acetate	< 4.38	ug/Kg	8/8/2017 14:00
Methyl tert-butyl Ether	< 4.38	ug/Kg	8/8/2017 14:00
Methylcyclohexane	< 4.38	ug/Kg	8/8/2017 14:00
Methylene chloride	13.0	ug/Kg	8/8/2017 14:00
Naphthalene	< 11.0	ug/Kg	8/8/2017 14:00
n-Butylbenzene	< 4.38	ug/Kg	8/8/2017 14:00
n-Propylbenzene	< 4.38	ug/Kg	8/8/2017 14:00
o-Xylene	< 4.38	ug/Kg	8/8/2017 14:00
p-Isopropyltoluene	< 4.38	ug/Kg	8/8/2017 14:00
sec-Butylbenzene	< 4.38	ug/Kg	8/8/2017 14:00
Styrene	< 11.0	ug/Kg	8/8/2017 14:00
tert-Butylbenzene	< 4.38	ug/Kg	8/8/2017 14:00
Tetrachloroethene	< 4.38	ug/Kg	8/8/2017 14:00
Toluene	< 4.38	ug/Kg	8/8/2017 14:00
trans-1,2-Dichloroethene	< 4.38	ug/Kg	8/8/2017 14:00
trans-1,3-Dichloropropene	< 4.38	ug/Kg	8/8/2017 14:00

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Report Prepared Wednesday, August 9, 2017



Client: **NWEC&C**
Project Reference: **Glynn Gernatt 17-202**

Sample Identifier:	SS2				
Lab Sample ID:	173426-02			Date Sampled:	8/1/2017
Matrix:	Soil			Date Received:	8/2/2017
Trichloroethene	< 4.38	ug/Kg			8/8/2017 14:00
Trichlorofluoromethane	< 4.38	ug/Kg			8/8/2017 14:00
Vinyl chloride	< 4.38	ug/Kg			8/8/2017 14:00
Surrogate		Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4		111	86.2 - 128		8/8/2017 14:00
4-Bromofluorobenzene		70.6	69.8 - 123		8/8/2017 14:00
Pentafluorobenzene		97.2	82.2 - 114		8/8/2017 14:00
Toluene-D8		86.6	81.3 - 113		8/8/2017 14:00

Internal standard outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: x43943.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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Report Prepared Wednesday, August 9, 2017



Client: **NWEC&C**
Project Reference: **Glynn Gernatt 17-202**

Sample Identifier: **SS3**
Lab Sample ID: **173426-03** Date Sampled: **8/1/2017**
Matrix: **Soil** Date Received: **8/2/2017**

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 4.54	ug/Kg		8/8/2017 14:24
1,1,2,2-Tetrachloroethane	< 4.54	ug/Kg		8/8/2017 14:24
1,1,2-Trichloroethane	< 4.54	ug/Kg		8/8/2017 14:24
1,1-Dichloroethane	< 4.54	ug/Kg		8/8/2017 14:24
1,1-Dichloroethene	< 4.54	ug/Kg		8/8/2017 14:24
1,2,3-Trichlorobenzene	< 11.3	ug/Kg		8/8/2017 14:24
1,2,4-Trichlorobenzene	< 11.3	ug/Kg		8/8/2017 14:24
1,2,4-Trimethylbenzene	< 4.54	ug/Kg		8/8/2017 14:24
1,2-Dibromo-3-Chloropropane	< 22.7	ug/Kg		8/8/2017 14:24
1,2-Dibromoethane	< 4.54	ug/Kg		8/8/2017 14:24
1,2-Dichlorobenzene	< 4.54	ug/Kg		8/8/2017 14:24
1,2-Dichloroethane	< 4.54	ug/Kg		8/8/2017 14:24
1,2-Dichloropropane	< 4.54	ug/Kg		8/8/2017 14:24
1,3,5-Trimethylbenzene	< 4.54	ug/Kg		8/8/2017 14:24
1,3-Dichlorobenzene	< 4.54	ug/Kg		8/8/2017 14:24
1,4-Dichlorobenzene	< 4.54	ug/Kg		8/8/2017 14:24
1,4-dioxane	< 45.4	ug/Kg		8/8/2017 14:24
2-Butanone	< 22.7	ug/Kg		8/8/2017 14:24
2-Hexanone	< 11.3	ug/Kg		8/8/2017 14:24
4-Methyl-2-pentanone	< 11.3	ug/Kg		8/8/2017 14:24
Acetone	< 22.7	ug/Kg		8/8/2017 14:24
Benzene	< 4.54	ug/Kg		8/8/2017 14:24
Bromochloromethane	< 11.3	ug/Kg		8/8/2017 14:24
Bromodichloromethane	< 4.54	ug/Kg		8/8/2017 14:24
Bromoform	< 11.3	ug/Kg		8/8/2017 14:24
Bromomethane	< 4.54	ug/Kg		8/8/2017 14:24
Carbon disulfide	< 4.54	ug/Kg		8/8/2017 14:24

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Report Prepared Wednesday, August 9, 2017



Client: **NWEC&C**

Project Reference: **Glynn Gernatt 17-202**

Sample Identifier:	SS3			
Lab Sample ID:	173426-03		Date Sampled:	8/1/2017
Matrix:	Soil		Date Received:	8/2/2017
Carbon Tetrachloride	< 4.54	ug/Kg	8/8/2017	14:24
Chlorobenzene	< 4.54	ug/Kg	8/8/2017	14:24
Chloroethane	< 4.54	ug/Kg	8/8/2017	14:24
Chloroform	< 4.54	ug/Kg	8/8/2017	14:24
Chloromethane	< 4.54	ug/Kg	8/8/2017	14:24
cis-1,2-Dichloroethene	< 4.54	ug/Kg	8/8/2017	14:24
cis-1,3-Dichloropropene	< 4.54	ug/Kg	8/8/2017	14:24
Cyclohexane	< 22.7	ug/Kg	8/8/2017	14:24
Dibromochloromethane	< 4.54	ug/Kg	8/8/2017	14:24
Dichlorodifluoromethane	< 4.54	ug/Kg	8/8/2017	14:24
Ethylbenzene	< 4.54	ug/Kg	8/8/2017	14:24
Freon 113	< 4.54	ug/Kg	8/8/2017	14:24
Isopropylbenzene	< 4.54	ug/Kg	8/8/2017	14:24
m,p-Xylene	< 4.54	ug/Kg	8/8/2017	14:24
Methyl acetate	< 4.54	ug/Kg	8/8/2017	14:24
Methyl tert-butyl Ether	< 4.54	ug/Kg	8/8/2017	14:24
Methylcyclohexane	< 4.54	ug/Kg	8/8/2017	14:24
Methylene chloride	11.6	ug/Kg	8/8/2017	14:24
Naphthalene	< 11.3	ug/Kg	8/8/2017	14:24
n-Butylbenzene	< 4.54	ug/Kg	8/8/2017	14:24
n-Propylbenzene	< 4.54	ug/Kg	8/8/2017	14:24
o-Xylene	< 4.54	ug/Kg	8/8/2017	14:24
p-Isopropyltoluene	< 4.54	ug/Kg	8/8/2017	14:24
sec-Butylbenzene	< 4.54	ug/Kg	8/8/2017	14:24
Styrene	< 11.3	ug/Kg	8/8/2017	14:24
tert-Butylbenzene	< 4.54	ug/Kg	8/8/2017	14:24
Tetrachloroethene	< 4.54	ug/Kg	8/8/2017	14:24
Toluene	< 4.54	ug/Kg	8/8/2017	14:24
trans-1,2-Dichloroethene	< 4.54	ug/Kg	8/8/2017	14:24
trans-1,3-Dichloropropene	< 4.54	ug/Kg	8/8/2017	14:24

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Report Prepared Wednesday, August 9, 2017



Client: NWEC&C
Project Reference: Glynn Gernatt 17-202

Sample Identifier: SS3
Lab Sample ID: 173426-03
Matrix: Soil

Date Sampled: 8/1/2017
Date Received: 8/2/2017

Trichloroethene	< 4.54	ug/Kg		8/8/2017 14:24
Trichlorofluoromethane	< 4.54	ug/Kg		8/8/2017 14:24
Vinyl chloride	< 4.54	ug/Kg		8/8/2017 14:24
Surrogate		Percent Recovery	Limits	Outliers
1,2-Dichloroethane-d4		112	86.2 - 128	8/8/2017 14:24
4-Bromofluorobenzene		72.0	69.8 - 123	8/8/2017 14:24
Pentafluorobenzene		96.9	82.2 - 114	8/8/2017 14:24
Toluene-D8		86.1	81.3 - 113	8/8/2017 14:24

Internal standard outliers indicate probable matrix interference

Method Reference(s): EPA 8260C
EPA 5035A - L
Data File: x43944.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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Report Prepared Wednesday, August 9, 2017



Client: **NWEC&C**
Project Reference: Glynn Gernatt 17-202

Sample Identifier: Composite
Lab Sample ID: 173426-04
Matrix: Soil

Date Sampled: 8/1/2017
Date Received: 8/2/2017

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	8.24	mg/Kg		8/4/2017 17:55
Barium	69.8	mg/Kg		8/4/2017 17:55
Beryllium	0.465	mg/Kg		8/4/2017 17:55
Cadmium	0.186	mg/Kg	J	8/4/2017 17:55
Chromium	13.5	mg/Kg		8/4/2017 17:55
Copper	24.4	mg/Kg		8/4/2017 17:55
Lead	16.3	mg/Kg		8/4/2017 17:55
Manganese	1010	mg/Kg		8/7/2017 10:16
Nickel	18.2	mg/Kg		8/4/2017 17:55
Selenium	< 1.12	mg/Kg		8/7/2017 10:21
Silver	< 0.560	mg/Kg		8/4/2017 17:55
Zinc	108	mg/Kg		8/4/2017 17:55

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 8/3/2017
Data File: 170804B

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Report Prepared Wednesday, August 9, 2017



Lab Project ID: 173426

Client: **NWEC&C**
Project Reference: Glynn Gernatt 17-202

Sample Identifier:	Composite	Date Sampled:	8/1/2017
Lab Sample ID:	173426-04	Date Received:	8/2/2017
Matrix:	Soil		

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	0.0699	mg/Kg		8/8/2017 13:18
Method Reference(s):	EPA 7471B			
Preparation Date:	8/8/2017			
Data File:	Hg170808B			

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Report Prepared Wednesday, August 9, 2017



Client: NWEC&C
Project Reference: Glynn Gernatt 17-202

Sample Identifier: Composite
Lab Sample ID: 173426-04
Matrix: Soil

Date Sampled: 8/1/2017
Date Received: 8/2/2017

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0313	mg/Kg		8/8/2017 16:58
PCB-1221	< 0.0313	mg/Kg		8/8/2017 16:58
PCB-1232	< 0.0313	mg/Kg		8/8/2017 16:58
PCB-1242	< 0.0313	mg/Kg		8/8/2017 16:58
PCB-1248	< 0.0313	mg/Kg		8/8/2017 16:58
PCB-1254	< 0.0313	mg/Kg		8/8/2017 16:58
PCB-1260	< 0.0313	mg/Kg		8/8/2017 16:58
PCB-1262	< 0.0313	mg/Kg		8/8/2017 16:58
PCB-1268	< 0.0313	mg/Kg		8/8/2017 16:58

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	74.9	22.2 - 140		8/8/2017 16:58
Tetrachloro-m-xylene	28.0	11.8 - 125		8/8/2017 16:58

Method Reference(s): EPA 8082A
EPA 3550C
Preparation Date: 8/3/2017

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Report Prepared Wednesday, August 9, 2017



Client: **NWEC&C**
Project Reference: Glynn Gernatt 17-202

Sample Identifier: Composite
Lab Sample ID: 173426-04
Matrix: Soil

Date Sampled: 8/1/2017
Date Received: 8/2/2017

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	2.26	ug/Kg	JP	8/7/2017 15:02
4,4-DDE	7.06	ug/Kg	P	8/7/2017 15:02
4,4-DDT	6.53	ug/Kg		8/7/2017 15:02
Aldrin	< 3.13	ug/Kg		8/7/2017 15:02
alpha-BHC	< 3.13	ug/Kg		8/7/2017 15:02
beta-BHC	< 3.13	ug/Kg		8/7/2017 15:02
cis-Chlordane	< 3.13	ug/Kg		8/7/2017 15:02
delta-BHC	< 3.13	ug/Kg		8/7/2017 15:02
Dieldrin	4.23	ug/Kg		8/7/2017 15:02
Endosulfan I	< 3.13	ug/Kg		8/7/2017 15:02
Endosulfan II	< 3.13	ug/Kg		8/7/2017 15:02
Endosulfan Sulfate	< 3.13	ug/Kg		8/7/2017 15:02
Endrin	< 3.13	ug/Kg		8/7/2017 15:02
Endrin Aldehyde	< 3.13	ug/Kg		8/7/2017 15:02
Endrin Ketone	< 3.13	ug/Kg		8/7/2017 15:02
gamma-BHC (Lindane)	< 3.13	ug/Kg		8/7/2017 15:02
Heptachlor	< 3.13	ug/Kg		8/7/2017 15:02
Heptachlor Epoxide	< 3.13	ug/Kg		8/7/2017 15:02
Methoxychlor	< 3.13	ug/Kg		8/7/2017 15:02
Toxaphene	< 3.13	ug/Kg		8/7/2017 15:02
trans-Chlordane	< 3.13	ug/Kg		8/7/2017 15:02
Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	97.9	31.5 - 168		8/7/2017 15:02
Tetrachloro-m-xylene (1)	46.7	26.7 - 117		8/7/2017 15:02

Method Reference(s): EPA 8081B
EPA 3550C
Preparation Date: 8/3/2017

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Report Prepared Wednesday, August 9, 2017



Client: NWEC&C
Project Reference: Glynn Gernatt 17-202

Sample Identifier: Composite
Lab Sample ID: 173426-04
Matrix: Soil

Date Sampled: 8/1/2017
Date Received: 8/2/2017

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 313	ug/Kg		8/7/2017 21:18
1,2,4,5-Tetrachlorobenzene	< 313	ug/Kg		8/7/2017 21:18
1,2,4-Trichlorobenzene	< 313	ug/Kg		8/7/2017 21:18
1,2-Dichlorobenzene	< 313	ug/Kg		8/7/2017 21:18
1,3-Dichlorobenzene	< 313	ug/Kg		8/7/2017 21:18
1,4-Dichlorobenzene	< 313	ug/Kg		8/7/2017 21:18
2,2-Oxybis (1-chloropropane)	< 313	ug/Kg		8/7/2017 21:18
2,3,4,6-Tetrachlorophenol	< 313	ug/Kg		8/7/2017 21:18
2,4,5-Trichlorophenol	< 625	ug/Kg		8/7/2017 21:18
2,4,6-Trichlorophenol	< 313	ug/Kg		8/7/2017 21:18
2,4-Dichlorophenol	< 313	ug/Kg		8/7/2017 21:18
2,4-Dimethylphenol	< 313	ug/Kg		8/7/2017 21:18
2,4-Dinitrophenol	< 625	ug/Kg		8/7/2017 21:18
2,4-Dinitrotoluene	< 313	ug/Kg		8/7/2017 21:18
2,6-Dinitrotoluene	< 313	ug/Kg		8/7/2017 21:18
2-Chloronaphthalene	< 313	ug/Kg		8/7/2017 21:18
2-Chlorophenol	< 313	ug/Kg		8/7/2017 21:18
2-Methylnaphthalene	< 313	ug/Kg		8/7/2017 21:18
2-Methylphenol	< 313	ug/Kg		8/7/2017 21:18
2-Nitroaniline	< 625	ug/Kg		8/7/2017 21:18
2-Nitrophenol	< 313	ug/Kg		8/7/2017 21:18
3&4-Methylphenol	< 313	ug/Kg		8/7/2017 21:18
3,3'-Dichlorobenzidine	< 313	ug/Kg		8/7/2017 21:18
3-Nitroaniline	< 625	ug/Kg		8/7/2017 21:18
4,6-Dinitro-2-methylphenol	< 625	ug/Kg		8/7/2017 21:18
4-Bromophenyl phenyl ether	< 313	ug/Kg		8/7/2017 21:18
4-Chloro-3-methylphenol	< 313	ug/Kg		8/7/2017 21:18

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Report Prepared Wednesday, August 9, 2017



Client: NWEC&C

Project Reference: Glynn Gernatt 17-202

Sample Identifier: Composite

Lab Sample ID: 173426-04

Date Sampled: 8/1/2017

Matrix: Soil

Date Received: 8/2/2017

4-Chloroaniline	< 313	ug/Kg	8/7/2017 21:18
4-Chlorophenyl phenyl ether	< 313	ug/Kg	8/7/2017 21:18
4-Nitroaniline	< 625	ug/Kg	8/7/2017 21:18
4-Nitrophenol	< 625	ug/Kg	8/7/2017 21:18
Acenaphthene	< 313	ug/Kg	8/7/2017 21:18
Acenaphthylene	< 313	ug/Kg	8/7/2017 21:18
Acetophenone	< 313	ug/Kg	8/7/2017 21:18
Anthracene	< 313	ug/Kg	8/7/2017 21:18
Atrazine	< 313	ug/Kg	8/7/2017 21:18
Benzaldehyde	< 313	ug/Kg	8/7/2017 21:18
Benzo (a) anthracene	< 313	ug/Kg	8/7/2017 21:18
Benzo (a) pyrene	< 313	ug/Kg	8/7/2017 21:18
Benzo (b) fluoranthene	< 313	ug/Kg	8/7/2017 21:18
Benzo (g,h,i) perylene	< 313	ug/Kg	8/7/2017 21:18
Benzo (k) fluoranthene	< 313	ug/Kg	8/7/2017 21:18
Bis (2-chloroethoxy) methane	< 313	ug/Kg	8/7/2017 21:18
Bis (2-chloroethyl) ether	< 313	ug/Kg	8/7/2017 21:18
Bis (2-ethylhexyl) phthalate	< 313	ug/Kg	8/7/2017 21:18
Butylbenzylphthalate	< 313	ug/Kg	8/7/2017 21:18
Caprolactam	< 313	ug/Kg	8/7/2017 21:18
Carbazole	< 313	ug/Kg	8/7/2017 21:18
Chrysene	< 313	ug/Kg	8/7/2017 21:18
Dibenz (a,h) anthracene	< 313	ug/Kg	8/7/2017 21:18
Dibenzofuran	< 313	ug/Kg	8/7/2017 21:18
Diethyl phthalate	< 313	ug/Kg	8/7/2017 21:18
Dimethyl phthalate	< 625	ug/Kg	8/7/2017 21:18
Di-n-butyl phthalate	< 313	ug/Kg	8/7/2017 21:18
Di-n-octylphthalate	< 313	ug/Kg	8/7/2017 21:18
Fluoranthene	< 313	ug/Kg	8/7/2017 21:18
Fluorene	< 313	ug/Kg	8/7/2017 21:18

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Report Prepared Wednesday, August 9, 2017



Client: **NWEC&C**

Project Reference: **Glynn Gernatt 17-202**

Sample Identifier: **Composite**

Lab Sample ID: **173426-04**

Date Sampled: **8/1/2017**

Matrix: **Soil**

Date Received: **8/2/2017**

Hexachlorobenzene	< 313	ug/Kg	8/7/2017	21:18
Hexachlorobutadiene	< 313	ug/Kg	8/7/2017	21:18
Hexachlorocyclopentadiene	< 313	ug/Kg	8/7/2017	21:18
Hexachloroethane	< 313	ug/Kg	8/7/2017	21:18
Indeno (1,2,3-cd) pyrene	< 313	ug/Kg	8/7/2017	21:18
Isophorone	< 313	ug/Kg	8/7/2017	21:18
Naphthalene	< 313	ug/Kg	8/7/2017	21:18
Nitrobenzene	< 313	ug/Kg	8/7/2017	21:18
N-Nitroso-di-n-propylamine	< 313	ug/Kg	8/7/2017	21:18
N-Nitrosodiphenylamine	< 313	ug/Kg	8/7/2017	21:18
Pentachlorophenol	< 625	ug/Kg	8/7/2017	21:18
Phenanthrene	< 313	ug/Kg	8/7/2017	21:18
Phenol	< 313	ug/Kg	8/7/2017	21:18
Pyrene	< 313	ug/Kg	8/7/2017	21:18

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	86.4	55.4 - 114		8/7/2017 21:18
2-Fluorobiphenyl	56.5	39.9 - 112		8/7/2017 21:18
2-Fluorophenol	59.8	41.9 - 97.1		8/7/2017 21:18
Nitrobenzene-d5	52.9	41 - 96		8/7/2017 21:18
Phenol-d5	62.8	43.7 - 101		8/7/2017 21:18
Terphenyl-d14	88.9	71.7 - 115		8/7/2017 21:18

Method Reference(s): EPA 8270D
EPA 3550C
Preparation Date: 8/3/2017
Data File: B21605.D

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Report Prepared Wednesday, August 9, 2017



Client: NWEC&C
Project Reference: Glynn Gernatt 17-202

Sample Identifier: Composite
Lab Sample ID: 173426-04
Matrix: Soil

Date Sampled: 8/1/2017
Date Received: 8/2/2017

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.485	mg/Kg		8/7/2017

Method Reference(s): EPA 9014
Preparation Date: 8/4/2017

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Report Prepared Wednesday, August 9, 2017



PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.

"E" = Result has been estimated, calibration limit exceeded.

"Z" = See case narrative.

"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.

"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.

"B" = Method blank contained trace levels of analyte. Refer to included method blank report.

"J" = Result estimated between the quantitation limit and half the quantitation limit.

"L" = Laboratory Control Sample recovery outside accepted QC limits.

"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.

"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.

***" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*

"(1)" = Indicates data from primary column used for QC calculation.

"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.

"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS

LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term, or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

- Warranty.** Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.
- Scope and Compensation.** LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will use LAB default method for all tests unless specified otherwise on the Work Order. Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.
- Prices.** Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.
- Limitations of Liability.** In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services. LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results. All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB. Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.
- Hazard Disclosure.** Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.
- Sample Handling.** Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises. Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report. Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples. LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.
- Legal Responsibility.** LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.
- Assignment.** LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.
- Force Majeure.** LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.
- Law.** This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

CHAIN OF CUSTODY

1 of 2



CLIENT: NATURES WAY ENVIRONMENTAL
ADDRESS: 553 CATHEDRAL RD
CITY: AUBURN NY 14704
PHONE: 716-937-6527
ATTN: M Sanabona
Matrix Codes: AQ - Aqueous Liquid, NQ - Non-Aqueous Liquid
WA - Water, WG - Groundwater, DW - Drinking Water, WW - Wastewater, SO - Soil, SL - Sludge, SD - Solid, PT - Paint, WP - Wipe, CK - Caulk, OL - Oil, AR - Air

LAB PROJECT ID: 173426
Quotation #:
Email: MSanabona@natureswayenv.com

PROJECT REFERENCE:
 Glynn Genott
 17-202

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAAB	SAMPLE IDENTIFIER	MC ADDRESS	NUMBERS	REMARKS	PARADIGM LAB SAMPLE NUMBER
8-1-17	9:45					1	eliminated as per Jeff Dinsmore (ASD)	01
8-1-17	9:45					1		02
8-1-17	9:45					1		03
8-1-17	9:45			Composite		21		04

Turnaround Time
 Availability contingent upon lab approval; additional fees may apply.

Standard 5 day	<input checked="" type="checkbox"/> None Required	<input type="checkbox"/> None Required
10 day	<input type="checkbox"/> Batch QC	<input type="checkbox"/> Basic EDD
Rush 3 day	<input type="checkbox"/> Category A	<input checked="" type="checkbox"/> NYSEDEC EDD
Rush 2 day	<input type="checkbox"/> Category B	<input checked="" type="checkbox"/> Other EDD
Rush 1 day	<input type="checkbox"/> Other	<input type="checkbox"/> please indicate EDD needed:

Report Supplements
 Availability contingent upon lab approval; additional fees may apply.

Standard 5 day	<input checked="" type="checkbox"/> None Required	<input type="checkbox"/> None Required
10 day	<input type="checkbox"/> Batch QC	<input type="checkbox"/> Basic EDD
Rush 3 day	<input type="checkbox"/> Category A	<input checked="" type="checkbox"/> NYSEDEC EDD
Rush 2 day	<input type="checkbox"/> Category B	<input checked="" type="checkbox"/> Other EDD
Rush 1 day	<input type="checkbox"/> Other	<input type="checkbox"/> please indicate EDD needed:

Sampled By: Steve Gingrich 8-1-17 9:45 am
Relinquished By: [Signature] 8-1-17 12:45 pm
Received By: [Signature] 8-2-17 9:58
Received @ Lab By: [Signature] 8-2-17 15:33

Total Cost:
P.I.F.:

Sited 8/2/17 12:00. Custody Seal intact, signed, dated. 6/8/17
 By signing this form, client agrees to Paradigm Terms and Conditions (reverse).



Chain of Custody Supplement

2 of 2

Client: Nature's Way Environmental Completed by: Glen Pezzulo
 Lab Project ID: 173426 Date: 8/2/17

Sample Condition Requirements
 Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt		
	Yes	No	N/A
Container Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> 5035	<input type="checkbox"/>
Comments	<u>Transferred portion of Composite sample (04) to 4oz glass jar for Silver, Hex Cr sub-out.</u>		
Transferred to method-compliant container	<input checked="" type="checkbox"/> 93 to 92 sub-out	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Headspace (<1 mL)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments			
Preservation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments			
Chlorine Absent (<0.10 ppm per test strip)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments			
Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			
Temperature	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> mem's
Comments	<u>5°C: iced 8/2/17 12:00</u>		
Sufficient Sample Quantity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			



ANALYTICAL REPORT

Lab Number:	L1726806
Client:	Paradigm Environmental Services 179 Lake Avenue Rochester, NY 14608
ATTN:	Jane Daloia
Phone:	(585) 647-2530
Project Name:	COMPOSITE
Project Number:	COMPOSITE
Report Date:	08/09/17

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Serial_No:08091712:11

Project Name: COMPOSITE
Project Number: COMPOSITE

Lab Number: L1726806
Report Date: 08/09/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1726806-01	COMPOSITE 173426-04	SOIL	Not Specified	08/01/17 09:45	08/02/17



Project Name: COMPOSITE
Project Number: COMPOSITE

Lab Number: L1726806
Report Date: 08/09/17

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: COMPOSITE
Project Number: COMPOSITE

Lab Number: L1726806
Report Date: 08/09/17

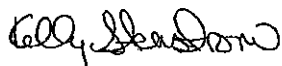
Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 08/09/17

ORGANICS



PESTICIDES



Project Name: COMPOSITE
 Project Number: COMPOSITE

Lab Number: L1726806
 Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726806-01
 Client ID: COMPOSITE 173426-04
 Sample Location: Not Specified

Date Collected: 08/01/17 09:45
 Date Received: 08/02/17
 Field Prep: Not Specified
 Extraction Method: EPA 8151A
 Extraction Date: 08/06/17 02:11

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 08/09/17 02:21
 Analyst: SL
 Percent Solids: 87%
 Methylation Date: 08/07/17 07:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	190	12.0	1	A
2,4,5-T	ND		ug/kg	190	5.90	1	A
2,4,5-TP (Silvex)	ND		ug/kg	190	5.06	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	83		30-150	A
DCAA	78		30-150	B



Project Name: COMPOSITE
 Project Number: COMPOSITE

Lab Number: L1726806
 Report Date: 08/09/17

Method Blank Analysis
 Batch Quality Control

Analytical Method: 1,8151A
 Analytical Date: 08/08/17 23:25
 Analyst: SL

Extraction Method: EPA 8151A
 Extraction Date: 08/06/17 02:11

Methylation Date: 08/07/17 07:13

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01 Batch: WG1029349-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.04	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.32	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	61		30-150	A
DCAA	64		30-150	B



Serial_No:08091712:11

Lab Control Sample Analysis
Batch Quality Control

Project Name: COMPOSITE
Project Number: COMPOSITE

Lab Number: L1726806
Report Date: 08/09/17

Parameter	LCS %Recovery	Qual	LCS D %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab. Associated sample(s): 01 Batch: WG1029349-2 WG1029349-3									
2,4-D	87		92		30-150	6		30	A
2,4,5-T	88		87		30-150	1		30	A
2,4,5-TP (Silvex)	81		78		30-150	4		30	A

Surrogate	LCS %Recovery	Qual	LCS D %Recovery	Qual	Acceptance Criteria	Column
DCAA	69		70		30-150	A
DCAA	80		78		30-150	B



INORGANICS & MISCELLANEOUS



Project Name: COMPOSITE
 Project Number: COMPOSITE

Lab Number: L1726806
 Report Date: 08/09/17

SAMPLE RESULTS

Lab ID: L1726806-01
 Client ID: COMPOSITE 173426-04
 Sample Location: Not Specified
 Matrix: Soil

Date Collected: 08/01/17 09:45
 Date Received: 08/02/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.8		%	0.100	NA	1	-	08/03/17 08:34	121,2540G	RI
Chromium, Hexavalent	ND		mg/kg	0.92	0.18	1	08/04/17 19:30	08/06/17 20:47	1,7196A	RP



Project Name: COMPOSITE

Lab Number: L1726806

Project Number: COMPOSITE

Report Date: 08/09/17

Method Blank Analysis
Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab. for sample(s): 01 Batch: WG1029134-1									
Chromium, Hexavalent	ND	mg/kg	0.80	0.16	1	08/04/17 19:30	08/06/17 20:48	1,7196A	RP



Serial_No:08091712:11

Lab Control Sample Analysis

Project Name: COMPOSITE
Project Number: COMPOSITE

Lab Number: L1726806
Report Date: 08/09/17

Batch Quality Control

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1029134:2

Chromium, Hexavalent

89

80-120

20



Serial_No:08091712:11

Matrix Spike Analysis
Batch Quality Control

Project Name: COMPOSITE
Project Number: COMPOSITE

Lab Number: L1726806
Report Date: 08/09/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MS Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC:Batch ID: WG1029134-4 QC:Sample: L1726806-01 Client ID: COMPOSITE 173426-04										
Chromium, Hexavalent	ND	769	710	92	-	-	-	75-125	-	20



Serial_No:08091712:11

Lab Duplicate Analysis Batch Quality Control

Project Name: COMPOSITE
Project Number: COMPOSITE

Lab Number: L1726806
Report Date: 08/09/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01	QC Batch ID: WG1028419-1	QC Sample: L1726637-01	Client ID: DUP Sample			
Solids, Total	98.0	98.2	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01	QC Batch ID: WG1029134-6	QC Sample: L1726806-01	Client ID: COMPOSITE 173426-			
04						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20



Serial_No:08091712:11
 Lab Number: L1726806
 Report Date: 08/09/17

Project Name: COMPOSITE
 Project Number: COMPOSITE

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information
 Cooler Custody Seal
 A Absent

Container Information
 Container ID Container Type
 L1726806-01A Glass 120ml/4oz unpreserved

Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
A	NA	3.2	Y	Y	Absent		HERB-APA(14),TS(7),HEXCR-7196(30)

*Values in parentheses indicate holding time in days



Project Name: COMPOSITE
Project Number: COMPOSITE

Lab Number: L1726806
Report Date: 08/09/17

GLOSSARY

Acronyms

- EDL** - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
- EPA** - Environmental Protection Agency.
- LCS** - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCS D** - Laboratory Control Sample Duplicate: Refer to LCS.
- LFB** - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- MDL** - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- MS** - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
- MSD** - Matrix Spike Sample Duplicate: Refer to MS.
- NA** - Not Applicable.
- NC** - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- NDPA/DPA** - N-Nitrosodiphenylamine/Diphenylamine.
- NI** - Not Ignitable.
- NP** - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
- RL** - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD** - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
- SRM** - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
- STLP** - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
- TIC** - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1** - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers



Project Name: COMPOSITE
Project Number: COMPOSITE

Lab Number: L1726806
Report Date: 08/09/17

Data Qualifiers

- projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
 - D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
 - E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
 - G - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
 - H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
 - I - The lower value for the two columns has been reported due to obvious interference.
 - M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
 - NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
 - P - The RPD between the results for the two columns exceeds the method-specified criteria.
 - Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
 - R - Analytical results are from sample re-analysis.
 - RE - Analytical results are from sample re-extraction.
 - S - Analytical results are from modified screening analysis.
 - J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
 - ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: COMPOSITE
Project Number: COMPOSITE

Lab Number: L1726806
Report Date: 08/09/17

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.
 Facility: Company-wide
 Department: Quality Assurance
 Title: Certificate/Approval Program Summary

ID No.:17873
 Revision 10
 Published Date: 1/16/2017 11:00:05 AM
 Page 1 of 1

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene
 EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
 EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.
 EPA 300: DW: Bromide
 EPA 6860: NPW and SCM: Perchlorate
 EPA 9010: NPW and SCM: Amenable Cyanide Distillation
 EPA 9012B: NPW: Total Cyanide
 EPA 9050A: NPW: Specific Conductance
 SM3500: NPW: Ferrous Iron
 SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.
 SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

SM 2540D: TSS
 EPA 3005A NPW
 EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.
 EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
 Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B
 EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.
 Microbiology: SM9215B; SM9223-P/A, SM9223B-Collert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, SM4500NO3-F, EPA 353.2: Nitrate-N, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.
 EPA 624: Volatile Halocarbons & Aromatics,
 EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
 EPA 625: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.
 Microbiology: SM9223B-Collert-QT; Enterolert-QT, SM9221E.

Mansfield Facility:

Drinking Water

EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. EPA 245.1 Hg.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
 EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
 EPA 245.1 Hg.
 SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Serial No: 08091712:11
1 of 1

11148

L1726806

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY



REPORT ID: INVOICE TO:
 COMPANY: Paradigm Environmental Same
 ADDRESS: 179 Lake Avenue
 CITY: Rochester STATE: NY ZIP: 14608
 PHONE: FAX:
 ATTN: Reporting
 COMMENTS: Please email results to reporting@paradigmny.com

LAB PROJECT #: CLIENT PROJECT #:
 TURNAROUND TIME (WORKING DAYS):
 1 2 3 4 5 6
 STD
 OTHER

Date Due: 8/10/17 For data

DATE	TIME	COMPOSITE	G R A B	SAMPLE LOCATION/FIELD ID	M A T R I X	C O N T A I N E R N U M B E R	REMARKS	PARADIGM LAB SAMPLE NUMBER
18/1/17	09:45			Composite	Sol 1	X 5/16X	Report J Flags. ASP Cat B Package Due 8/24/17 Report as dry wt. SW 846 HT'S.	173426-04
2								
3								
4								
5								
6								
7								
8								
9								
10								

Sample Condition: Per NELAP 210724/17242/243/244

Receipt Parameter

Comments: _____

Container Type: Y N

Preservation: Y N

Holding Time: Y N

Temperature: Y N

NELAC Compliance

Client

Sampled By: [Signature] Date/Time: 8/2/17 16:00

Relinquished By: Jim AL AAC Date/Time: 8/02/17 17:50

Received By: Jim AL AAC Date/Time: 8/02/17 17:50

Received @ Lab By: [Signature] Date/Time: 8/13/17 01:00

Total Cost: _____

P.I.F.



PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For
CEM Services, Inc.

For Lab Project ID

192791

Referencing

1660 Niagara

Prepared

Thursday, June 20, 2019

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

A handwritten signature in cursive script, appearing to read "Deutchler", is written over a horizontal line.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, June 20, 2019



Client: CEM Services, Inc.

Project Reference: 1660 Niagara

Sample Identifier: 1660

Lab Sample ID: 192791-01

Matrix: Soil

Date Sampled: 6/17/2019

Date Received: 6/19/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 8.57	ug/Kg		6/19/2019 18:19
1,1,2,2-Tetrachloroethane	< 8.57	ug/Kg		6/19/2019 18:19
1,1,2-Trichloroethane	< 8.57	ug/Kg		6/19/2019 18:19
1,1-Dichloroethane	< 8.57	ug/Kg		6/19/2019 18:19
1,1-Dichloroethene	< 8.57	ug/Kg		6/19/2019 18:19
1,2,3-Trichlorobenzene	< 21.4	ug/Kg		6/19/2019 18:19
1,2,4-Trichlorobenzene	< 21.4	ug/Kg		6/19/2019 18:19
1,2,4-Trimethylbenzene	< 8.57	ug/Kg		6/19/2019 18:19
1,2-Dibromo-3-Chloropropane	< 42.9	ug/Kg		6/19/2019 18:19
1,2-Dibromoethane	< 8.57	ug/Kg		6/19/2019 18:19
1,2-Dichlorobenzene	< 8.57	ug/Kg		6/19/2019 18:19
1,2-Dichloroethane	< 8.57	ug/Kg		6/19/2019 18:19
1,2-Dichloropropane	< 8.57	ug/Kg		6/19/2019 18:19
1,3,5-Trimethylbenzene	< 8.57	ug/Kg		6/19/2019 18:19
1,3-Dichlorobenzene	< 8.57	ug/Kg		6/19/2019 18:19
1,4-Dichlorobenzene	< 8.57	ug/Kg		6/19/2019 18:19
1,4-Dioxane	< 85.7	ug/Kg		6/19/2019 18:19
2-Butanone	< 42.9	ug/Kg		6/19/2019 18:19
2-Hexanone	< 21.4	ug/Kg		6/19/2019 18:19
4-Methyl-2-pentanone	< 21.4	ug/Kg		6/19/2019 18:19
Acetone	< 42.9	ug/Kg		6/19/2019 18:19
Benzene	< 8.57	ug/Kg		6/19/2019 18:19
Bromochloromethane	< 21.4	ug/Kg		6/19/2019 18:19
Bromodichloromethane	< 8.57	ug/Kg		6/19/2019 18:19
Bromoform	< 21.4	ug/Kg		6/19/2019 18:19
Bromomethane	< 8.57	ug/Kg		6/19/2019 18:19
Carbon disulfide	< 8.57	ug/Kg		6/19/2019 18:19
Carbon Tetrachloride	< 8.57	ug/Kg		6/19/2019 18:19

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Client: CEM Services, Inc.

Project Reference: 1660 Niagara

Sample Identifier: 1660

Lab Sample ID: 192791-01

Date Sampled: 6/17/2019

Matrix: Soil

Date Received: 6/19/2019

Chlorobenzene	< 8.57	ug/Kg	6/19/2019 18:19
Chloroethane	< 8.57	ug/Kg	6/19/2019 18:19
Chloroform	< 8.57	ug/Kg	6/19/2019 18:19
Chloromethane	< 8.57	ug/Kg	6/19/2019 18:19
cis-1,2-Dichloroethene	< 8.57	ug/Kg	6/19/2019 18:19
cis-1,3-Dichloropropene	< 8.57	ug/Kg	6/19/2019 18:19
Cyclohexane	< 42.9	ug/Kg	6/19/2019 18:19
Dibromochloromethane	< 8.57	ug/Kg	6/19/2019 18:19
Dichlorodifluoromethane	< 8.57	ug/Kg	6/19/2019 18:19
Ethylbenzene	< 8.57	ug/Kg	6/19/2019 18:19
Freon 113	< 8.57	ug/Kg	6/19/2019 18:19
Isopropylbenzene	< 8.57	ug/Kg	6/19/2019 18:19
m,p-Xylene	< 8.57	ug/Kg	6/19/2019 18:19
Methyl acetate	< 8.57	ug/Kg	6/19/2019 18:19
Methyl tert-butyl Ether	< 8.57	ug/Kg	6/19/2019 18:19
Methylcyclohexane	< 8.57	ug/Kg	6/19/2019 18:19
Methylene chloride	< 21.4	ug/Kg	6/19/2019 18:19
Naphthalene	< 21.4	ug/Kg	6/19/2019 18:19
n-Butylbenzene	< 8.57	ug/Kg	6/19/2019 18:19
n-Propylbenzene	< 8.57	ug/Kg	6/19/2019 18:19
o-Xylene	< 8.57	ug/Kg	6/19/2019 18:19
p-Isopropyltoluene	< 8.57	ug/Kg	6/19/2019 18:19
sec-Butylbenzene	< 8.57	ug/Kg	6/19/2019 18:19
Styrene	< 21.4	ug/Kg	6/19/2019 18:19
tert-Butylbenzene	< 8.57	ug/Kg	6/19/2019 18:19
Tetrachloroethene	< 8.57	ug/Kg	6/19/2019 18:19
Toluene	< 8.57	ug/Kg	6/19/2019 18:19
trans-1,2-Dichloroethene	< 8.57	ug/Kg	6/19/2019 18:19
trans-1,3-Dichloropropene	< 8.57	ug/Kg	6/19/2019 18:19
Trichloroethene	< 8.57	ug/Kg	6/19/2019 18:19

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Client: CEM Services, Inc.

Project Reference: 1660 Niagara

Sample Identifier: 1660

Lab Sample ID: 192791-01

Date Sampled: 6/17/2019

Matrix: Soil

Date Received: 6/19/2019

Trichlorofluoromethane	< 8.57	ug/Kg	6/19/2019 18:19
Vinyl chloride	< 8.57	ug/Kg	6/19/2019 18:19

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	115	70.5 - 138		6/19/2019 18:19
4-Bromofluorobenzene	92.8	66.2 - 124		6/19/2019 18:19
Pentafluorobenzene	95.5	86 - 110		6/19/2019 18:19
Toluene-D8	96.0	81.6 - 113		6/19/2019 18:19

Method Reference(s): EPA 8260C
EPA 5035A - L
Data File: x61931.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.

"E" = Result has been estimated, calibration limit exceeded.

"Z" = See case narrative.

"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.

"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.

"B" = Method blank contained trace levels of analyte. Refer to included method blank report.

"J" = Result estimated between the quantitation limit and half the quantitation limit.

"L" = Laboratory Control Sample recovery outside accepted QC limits.

"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.

"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.

"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*

"(1)" = Indicates data from primary column used for QC calculation.

"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.

"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

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GENERAL TERMS AND CONDITIONS

LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation.

LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises. Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility.

LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

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Report Prepared Thursday, June 20, 2019

Addendum Page 51

Page 6 of 8



Chain of Custody Supplement

Client: CEM
Lab Project ID: 192791

Completed by: Glenn Pezzulo
Date: 6/19/19

Sample Condition Requirements Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt		
	Yes	No	N/A
Container Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> 5035	<input type="checkbox"/>
Comments	_____		
Transferred to method-compliant container	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Headspace (<1 mL)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Preservation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Chlorine Absent (<0.10 ppm per test strip)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Temperature	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	<u>5°C iced</u>		
Compliant Sample Quantity/Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		



PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For
CEM Services, Inc.

For Lab Project ID

192705

Referencing

Gernatt - Topsoil

Prepared

Thursday, June 27, 2019

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below:

Portions of the enclosed report reflects analysis that has been subcontracted and are presented in their original form.

A handwritten signature in black ink, appearing to read "G. Stoch", is written over a horizontal line.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

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Report Prepared Thursday, June 27, 2019



Client: CEM Services, Inc.

Project Reference: Gernatt - Topsoil

Sample Identifier: Gernatt

Lab Sample ID: 192705-01

Date Sampled: 6/12/2019

Matrix: Soil

Date Received: 6/17/2019

Dioxane

Analyte	Result	Units	Qualifier	Date Analyzed
1,4-Dioxane	< 32.4	ug/Kg		6/19/2019 13:05
Method Reference(s):	EPA 8270D SIM EPA 3546			
Preparation Date:	6/17/2019			
Data File:	B37925.D			

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Analytical Report Appendix

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"E" = Result has been estimated, calibration limit exceeded.

"Z" = See case narrative.

"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.

"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.

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"J" = Result estimated between the quantitation limit and half the quantitation limit.

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- Hazard Disclosure.** Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.
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- Legal Responsibility.** LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.
- Assignment.** LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.
- Force Majeure.** LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.
- Law.** This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

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Report Prepared Thursday, June 27, 2019

Addendum Page 57

Page 4 of 27



179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

1 of 2

PROJECT NAME/SITE NAME:
Gerritt - Topsoil

REPORT TO:
COMPANY: GEM
ADDRESS: 1815 Love Rd
CITY: GI STATE: NY ZIP: 14072
PHONE: 716-480-2125 FAX: 716-454-8373

INVOICE TO:
COMPANY: Same
ADDRESS:
CITY: NY STATE: NY ZIP: 14072
PHONE: FAX:

LAB PROJECT #: 199705
CLIENT PROJECT #:
TURNAROUND TIME (WORKING DAYS):
Quotation # 1 2 5
STD OTHER

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	G R A B	SAMPLE LOCATION/FIELD ID	M A T T R I X	C O N T A I N E R	REMARKS	PARADIGM LAB SAMPLE NUMBER
6-12-19	430	✓		Berritt	Soils	X	1,4 Dioxane PFAS - ddc	

Sub sent directly to sub lab. 6/17/19

****LAB USE ONLY BELOW THIS LINE****
Sample Condition: Per NELAC/EIAP 210/241/242/243/244

Receipt Parameter: _____

Container Type: Y N

Comments: _____

Preservation: Y N

Comments: _____

Holding Time: Y N

Comments: _____

Temperature: 2°C iced 6/17/19 08:37 N

NEIAC Compliance

Sampled By: [Signature] Date/Time: 6-12-19 Total Cost: _____

Relinquished By: [Signature] Date/Time: 6-13-19

Received By: [Signature] Date/Time: 6-17-19 08:37 P.I.F.

Received @ Lab By: _____ Date/Time: _____

2.f.2



Chain of Custody Supplement

Client: CEM
Lab Project ID: 192705

Completed by: Glenn Pezzulo
Date: 6/17/19

Sample Condition Requirements Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt		
	Yes	No	N/A
Container Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Transferred to method-compliant container	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Headspace (<1 mL)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Preservation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Chlorine Absent (<0.10 ppm per test strip)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Temperature	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	<u>2°C:iced</u>		
Compliant Sample Quantity/Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	<u>Sample for PFAS sent directly to sub lab.</u>		



ANALYTICAL REPORT

Lab Number:	L1925767
Client:	Paradigm Environmental Services 179 Lake Avenue Rochester, NY 14608
ATTN:	Jane Daloia
Phone:	(585) 647-2530
Project Name:	GERNATT - TOPSOIL
Project Number:	GERNATT - TOPSOIL
Report Date:	06/26/19

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Serial_No:06261920:27

Project Name: GERNATT - TOPSOIL
Project Number: GERNATT - TOPSOIL

Lab Number: L1925767
Report Date: 06/26/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1925767-01	GERNATT	SOIL	Not Specified	06/13/19 16:30	06/14/19

Project Name: GERNATT - TOPSOIL**Lab Number:** L1925767**Project Number:** GERNATT - TOPSOIL**Report Date:** 06/26/19

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: GERNATT - TOPSOIL
Project Number: GERNATT - TOPSOIL

Lab Number: L1925767
Report Date: 06/26/19

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

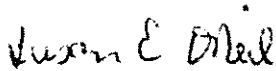
Perfluorinated Alkyl Acids by Isotope Dilution

L1925767-01: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

L1925767-01: Recovery Internal Standard was double spiked, the recoveries of the extracted internal standards were adjusted for the double spike.

The WG1252640-2/-3 LCS/LCSD RPD, associated with L1925767-01, is above the acceptance criteria for perfluorooctanesulfonamide (fosa) (39%).

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Susan O'Neil

Title: Technical Director/Representative

Date: 06/26/19

ORGANICS

SEMIVOLATILES

Project Name: GERNATT - TOPSOIL
Project Number: GERNATT - TOPSOIL

Lab Number: L1925767
Report Date: 06/26/19

SAMPLE RESULTS

Lab ID: L1925767-01
Client ID: GERNATT
Sample Location: Not Specified

Date Collected: 06/13/19 16:30
Date Received: 06/14/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 122,537(M)
Analytical Date: 06/26/19 18:48
Analyst: JW
Percent Solids: 85%

Extraction Method: EPA 537(M)
Extraction Date: 06/25/19 19:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.055	J	ug/kg	0.944	0.021	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	0.944	0.043	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.944	0.037	1
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	0.944	0.050	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	0.944	0.043	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	0.944	0.057	1
Perfluorooctanoic Acid (PFOA)	0.112	J	ug/kg	0.944	0.040	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.944	0.170	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.944	0.129	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	0.944	0.071	1
Perfluorooctanesulfonic Acid (PFOS)	0.141	J	ug/kg	0.944	0.123	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	0.944	0.063	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.944	0.271	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.944	0.190	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	0.944	0.044	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	0.944	0.144	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.944	0.093	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	0.944	0.080	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	0.944	0.066	1
Perfluorotridecanoic Acid (PFTTrDA)	ND		ug/kg	0.944	0.193	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	0.944	0.051	1
PFOA/PFOS, Total	0.253	J	ug/kg	0.944	0.040	1

Project Name: GERNATT - TOPSOIL

Lab Number: L1925767

Project Number: GERNATT - TOPSOIL

Report Date: 06/26/19

SAMPLE RESULTS

Lab ID: L1925767-01

Date Collected: 06/13/19 16:30

Client ID: GERNATT

Date Received: 06/14/19

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	70		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	88		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	86		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	78		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	78		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	86		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	86		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	50		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	90		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	92		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	88		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	66		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	42	Q	45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	98		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	0	Q	1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	56		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	88		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEA)	92		26-160

Project Name: GERNATT - TOPSOIL
Project Number: GERNATT - TOPSOIL

Lab Number: L1925767
Report Date: 06/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 122,537(M)
Analytical Date: 06/26/19 18:32
Analyst: JW

Extraction Method: EPA 537(M)
Extraction Date: 06/25/19 19:00

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01 Batch: WG1252640-1					
Perfluorobutanoic Acid (PFBA)	0.090	J	ug/kg	1.00	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	1.00	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.00	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	1.00	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	1.00	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.00	0.061
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	1.00	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.00	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.00	0.136
Perfluorononanoic Acid (PFNA)	ND		ug/kg	1.00	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ug/kg	1.00	0.130
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	1.00	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.00	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.00	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	1.00	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.00	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.00	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	1.00	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	1.00	0.070
Perfluorotridecanoic Acid (PFTTrDA)	ND		ug/kg	1.00	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	1.00	0.054
PFOA/PFOS, Total	ND		ug/kg	1.00	0.042

Project Name: GERNATT - TOPSOIL
Project Number: GERNATT - TOPSOIL

Lab Number: L1925767
Report Date: 06/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 122,537(M)
Analytical Date: 06/26/19 18:32
Analyst: JW

Extraction Method: EPA 537(M)
Extraction Date: 06/25/19 19:00

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01 Batch: WG1252640-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	78		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	99		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	91		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	89		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	87		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	89		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	92		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	58		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	105		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	97		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	62		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	84		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	106		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	2		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEIFOSAA)	78		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	97		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	99		26-160

Lab Control Sample Analysis Batch Quality Control

Lab Number: L1925767
Report Date: 06/26/19

Project Name: GERNATT - TOPSOIL
Project Number: GERNATT - TOPSOIL

Parameter	LCS		LCS D		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	Qual
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 Batch: WG1252640-2 WG1252640-3								
Perfluorobutanoic Acid (PFBA)	99		95		71-135		4	30
Perfluoropentanoic Acid (PFPeA)	90		86		69-132		5	30
Perfluorobutanesulfonic Acid (PFBS)	78		77		72-128		1	30
Perfluorohexanoic Acid (PFHxA)	110		102		70-132		8	30
Perfluoroheptanoic Acid (PFHpA)	97		96		71-131		1	30
Perfluorohexanesulfonic Acid (PFHxS)	116		109		67-130		6	30
Perfluorooctanoic Acid (PFOA)	95		93		69-133		3	30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	88		99		64-140		12	30
Perfluoroheptanesulfonic Acid (PFHpS)	82		85		70-132		4	30
Perfluorononanoic Acid (PFNA)	104		100		72-129		4	30
Perfluorooctanesulfonic Acid (PFOS)	82		86		68-136		5	30
Perfluorodecanoic Acid (PFDA)	105		94		69-133		11	30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	100		89		65-137		12	30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	96		88		63-144		9	30
Perfluoroundecanoic Acid (PFUnA)	91		86		64-136		6	30
Perfluorodecanesulfonic Acid (PFDS)	93		90		59-134		3	30
Perfluorooctanesulfonamide (FOSA)	117		79		67-137		39	30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEFOSAA)	95		90		61-139		5	30
Perfluorodecanoic Acid (PFDoA)	102		95		69-135		7	30
Perfluorotridecanoic Acid (PFTiDA)	128		122		66-139		5	30
Perfluorotetradecanoic Acid (PFTTA)	121		108		69-133		11	30

Addendum Page 70

Lab Control Sample Analysis

Batch Quality Control

Project Name: GERNATT - TOPSOIL
 Project Number: GERNATT - TOPSOIL

Lab Number: L1925767
 Report Date: 06/26/19

Parameter	LCS		LCS D		%Recovery		RPD		RPD Limits
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	RPD	Qual	
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 Batch: WG1252640-2 WG1252640-3									
Surrogate (Extracted Internal Standard)									
Perfluoro[13C4]Butanoic Acid (MPFBA)	75		82						60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	92		101						65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	92		95						70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	86		91						61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	84		87						62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	88		91						63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	89		94						62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6,2FTS)	59		57						32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		98						61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	101		102						65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	94		102						65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8,2FTS)	60		69						25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	86		91						45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	96		104						64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	1		2						1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEFOSAA)	73		80						42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	95		101						56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	91		100						26-160

INORGANICS & MISCELLANEOUS

Project Name: GERNATT - TOPSOIL
Project Number: GERNATT - TOPSOIL

Lab Number: L1925767
Report Date: 06/26/19

SAMPLE RESULTS

Lab ID: L1925767-01
Client ID: GERNATT
Sample Location: Not Specified

Date Collected: 06/13/19 16:30
Date Received: 06/14/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	85.4		%	0.100	0.100	1	-	06/22/19 03:32	121,2540G	CC



Lab Duplicate Analysis
Batch Quality Control

Project Name: GERNATT - TOPSOIL
 Project Number: GERNATT - TOPSOIL

Lab Number: L1925767
 Report Date: 06/26/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Mansfield Lab Associated sample(s): 01	QC Batch ID: WG1251780-1	QC Sample: L1923199-11	Client ID: DUP Sample			
Solids, Total	50.3	50.3	%	0		10

Serial_No:06261920:27
 Lab Number: L1925767
 Report Date: 06/26/19

Project Name: GERNATT - TOPSOIL
 Project Number: GERNATT - TOPSOIL

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information
Cooler A
Custody Seal Absent

Container Information
Container ID L1925767-01A
Container Type Plastic 2oz unpreserved for TS

L1925767-01B Plastic 8oz unpreserved
 Cooler A A
 Initial pH NA NA
 Final Temp deg C 3.4 3.4
 Pres Y Y
 Seal Absent Absent
 Frozen Date/Time
 Analysis(*) A2-TS(7)
 A2-NY-537-ISOTOPE(28)

Project Name: GERNATT - TOPSOIL
Project Number: GERNATT - TOPSOIL

Lab Number: L1925767
Report Date: 06/26/19

GLOSSARY

Acronyms

- DL** - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- EDL** - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
- EMPC** - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
- EPA** - Environmental Protection Agency.
- LCS** - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD** - Laboratory Control Sample Duplicate: Refer to LCS.
- LFB** - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LOD** - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- LOQ** - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- MDL** - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- MS** - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
- MSD** - Matrix Spike Sample Duplicate: Refer to MS.
- NA** - Not Applicable.
- NC** - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- NDPA/DPA** - N-Nitrosodiphenylamine/Diphenylamine.
- NI** - Not Ignitable.
- NP** - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
- RL** - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD** - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
- SRM** - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
- STLP** - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
- TEF** - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
- TEQ** - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
- TIC** - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name: GERNATT - TOPSOIL

Lab Number: L1925767

Project Number: GERNATT - TOPSOIL

Report Date: 06/26/19

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedances are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



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Lab Number: L1925767
Report Date: 06/26/19

REFERENCES

- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 122 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). EPA Method 537, EPA/600/R-08/092. Version 1.1, September 2009.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at its own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**
EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

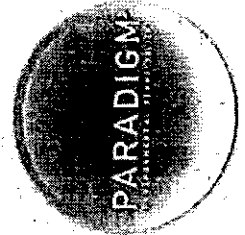
CHAIN OF CUSTODY

REPORT TO: **Paradigm Environmental** INVOICE TO: **LAB PROJECT ID**
 CLIENT: **178 Lake Avenue** Same
 ADDRESS: **Rochester** STATE: **NY** ZIP: **14608** Results by 3 PM
 CITY: **985-647-2530** PHONE:
 ATTN: **reporting@paradigmenv.com** EMAIL:

PROJECT REFERENCE: **Gernatt - Topsoil**
 Matrix Codes: **WA - Water** DW - Drinking Water SG - Soil OL - Oil
AL - Aqueous Liquid WW - Wastewater SL - Sludge PT - Paint WP - Wipe AR - Air
NG - Non-Aqueous Liquid WWS - Wastewater

DATE COLLECTED	TIME COLLECTED	COMPOSITE	SAMPLE IDENTIFIER	MATERIAL	REQUESTED ANALYSIS										REMARKS	PARADIGM LAB SAMPLE NUMBER										
					HC	CO	UM	BT	EA	AS	PC	AS	TR	IB			OX	PK								
6-13-19	4:30	✓	Gernatt	SOIL																						

Client: **6-13-19** Date/Time
 Sampled By: *[Signature]*
 Relinquished By: **6-13-19** Date/Time
 Received By: **6/14/19 13:30** Date/Time
 Received @ Lab: **6/14/19 13:30** Date/Time
 RELINQUISHED BY: *[Signature]* **06/19/2019**



Turnaround Time	Report Supplements
Standard 5 day <input type="checkbox"/>	None Required <input type="checkbox"/>
10 day <input type="checkbox"/>	Basic EDD <input type="checkbox"/>
Rush 3 day <input type="checkbox"/>	NYSDOC EDD <input type="checkbox"/>
Rush 2 day <input type="checkbox"/>	Other EDD <input type="checkbox"/>
Rush 1 day <input type="checkbox"/>	
Other <input checked="" type="checkbox"/> Today	