



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

Analysis Report
 August 11, 2022

FOR: Attn: Mr. Steven Boske
 Town of Vernon
 P.O. Box 22
 Vernon, CT 06066

Sample Information

Matrix: SLUDGE
 Location Code: TWNVERN
 Rush Request: Standard
 P.O.#:

Custody Information

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

Date Time
 07/15/22
 07/15/22 14:52

Laboratory Data

SDG ID: GCL78619
 Phoenix ID: CL78619

Project ID:
 Client ID: JULY SLUDGE

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.7	1.4	mg/Kg	1	07/20/22	EK	SW6010D
Beryllium	< 0.72	0.72	mg/Kg	1	07/20/22	EK	SW6010D
Cadmium	1.98	0.72	mg/Kg	1	07/20/22	EK	SW6010D
Chromium	31.5	0.72	mg/Kg	1	07/20/22	EK	SW6010D
Copper	527	7.2	mg/Kg	10	07/20/22	EK	SW6010D
Mercury	< 0.40	0.40	mg/kg	5	07/18/22	IE	SW7471B
Nickel	12.8	0.72	mg/Kg	1	07/21/22	CPP	SW6010D
Lead	16.0	0.72	mg/Kg	1	07/20/22	EK	SW6010D
Zinc	565	0.72	mg/Kg	1	07/20/22	EK	SW6010D
Percent Solid	3.41	0.05	%		07/15/22		SW846-%Solid
Total Solids @ 104C	3.41	0.1	%	1	07/15/22	KS/QH/D	SM2540B-15
Fixed Solids @ 500C	19.6	0.1	%	1	07/15/22	KS/QH/D	SM2540E MOD-15
Chromium, Hex. (SW3060 digestion)	< 19	19	mg/Kg	1	07/22/22	BJA	SW7196A
pH at 25C - Soil	5.53	1.00	pH Units	1	07/15/22 21:17	ER	SW846 9045D
Redox Potential	-206		mV	1	07/15/22	ER	SM2580B-09
Phosphorus, Total	26300	370	mg/Kg	25	07/20/22	JR	SM4500PE-11
Volatile Solids @ 500C	80.4	0.1	%	1	07/15/22	KS/QH/D	SM2540E MOD-15
Mercury Digestion	Completed				07/17/22	AB/AB	SW7471B
Extraction of ETPH	Completed				07/18/22	G/E/E	SW3546
Sludge Ext. for PCB	Completed				07/20/22	MO/MO	SW3550C
Total Metals Digest	Completed				07/18/22	L/P	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	16000	5200	mg/Kg	1	07/20/22	AW	CTETPH 8015D
Identification	**		mg/Kg	1	07/20/22	AW	CTETPH 8015D

QA/QC Surrogates

% COD (surr)	99		%	1	07/20/22	AW	50 - 150 %
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Project ID:
Client ID: JULY SLUDGE

Phoenix I.D.: CL78619

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	79		%	1	07/20/22	AW	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	1400	ug/Kg	1	07/21/22	SC	SW8082A
PCB-1221	ND	1400	ug/Kg	1	07/21/22	SC	SW8082A
PCB-1232	ND	1400	ug/Kg	1	07/21/22	SC	SW8082A
PCB-1242	ND	1400	ug/Kg	1	07/21/22	SC	SW8082A
PCB-1248	ND	1400	ug/Kg	1	07/21/22	SC	SW8082A
PCB-1254	ND	1400	ug/Kg	1	07/21/22	SC	SW8082A
PCB-1260	ND	1400	ug/Kg	1	07/21/22	SC	SW8082A
PCB-1262	ND	1400	ug/Kg	1	07/21/22	SC	SW8082A
PCB-1268	ND	1400	ug/Kg	1	07/21/22	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	50		%	1	07/21/22	SC	30 - 150 %
% DCBP (Confirmation)	43		%	1	07/21/22	SC	30 - 150 %
% TCMX	40		%	1	07/21/22	SC	30 - 150 %
% TCMX (Confirmation)	36		%	1	07/21/22	SC	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

Hexavalent Chromium:

This sample is in a reducing state.

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

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

Phyllis Shiller, Laboratory Director

August 11, 2022

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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

Analysis Report
 September 26, 2022

FOR: Attn: Mr. Steven Boske
 Town of Vernon
 P.O. Box 22
 Vernon, CT 06066

Sample Information

Matrix: SLUDGE
 Location Code: TWNVERN
 Rush Request: Standard
 P.O.#:

Custody Information

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

Date

09/16/22
 09/16/22

Time

9:00
 9:40

Laboratory Data

SDG ID: GCM33470
 Phoenix ID: CM33470

Project ID:
 Client ID: SEPT SLUDGE

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	3.4	1.3	mg/Kg	1	09/17/22	TH	SW6010D
Beryllium	< 0.63	0.63	mg/Kg	1	09/17/22	TH	SW6010D
Cadmium	1.91	0.63	mg/Kg	1	09/17/22	TH	SW6010D
Chromium	31.9	0.63	mg/Kg	1	09/17/22	TH	SW6010D
Copper	390	6.3	mg/Kg	10	09/17/22	TH	SW6010D
Mercury	< 0.5	0.5	mg/kg	5	09/26/22	IE	SW7471B
Nickel	14.6	0.63	mg/Kg	1	09/17/22	TH	SW6010D
Lead	19.9	0.63	mg/Kg	1	09/17/22	TH	SW6010D
Zinc	582	6.3	mg/Kg	10	09/17/22	TH	SW6010D
Percent Solid	3.98	0.05	%		09/16/22		SW846-%Solid
Total Solids @ 104C	3.98	0.1	%	1	09/16/22	JW/DK	SM2540B-15
Fixed Solids @ 500C	19.1	0.1	%	1	09/16/22	JW/DK	SM2540E MOD-15
Chromium, Hexavalent	< 21	21	mg/Kg	1	09/19/22	DK	SW7196A
pH at 25C - Soil	5.46	1.00	pH Units	1	09/16/22 22:39	JW	SW846 9045D
Redox Potential	-214		mV	1	09/16/22	JW	SM2580B-09
Phosphorus, Total	15900	310	mg/Kg	25	09/16/22	MI	SM4500PE-11
Volatile Solids @ 500C	80.9	0.1	%	1	09/16/22	JW/DK	SM2540E MOD-15
Soil Extraction for PCB	Completed				09/19/22	O	SW3545A
Mercury Digestion	Completed				09/23/22	KL/KL	SW7471B
Extraction of ETPH	Completed				09/16/22	FIB/C	SW3546
Total Metals Digest	Completed				09/16/22	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	13000	3400	mg/Kg	1	09/20/22	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	09/20/22	IRR	CTETPH 8015D

QA/QC Surrogates

% COD (surr)	50		%	1	09/20/22	JRB	50 - 150 %
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Project ID:
Client ID: SEPT SLUDGE

Phoenix I.D.: CM33470

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	81		%	1	09/20/22	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	140	ug/Kg	2	09/20/22	SC	SW8082A
PCB-1221	ND	140	ug/Kg	2	09/20/22	SC	SW8082A
PCB-1232	ND	140	ug/Kg	2	09/20/22	SC	SW8082A
PCB-1242	ND	140	ug/Kg	2	09/20/22	SC	SW8082A
PCB-1248	ND	140	ug/Kg	2	09/20/22	SC	SW8082A
PCB-1254	ND	140	ug/Kg	2	09/20/22	SC	SW8082A
PCB-1260	ND	140	ug/Kg	2	09/20/22	SC	SW8082A
PCB-1262	ND	140	ug/Kg	2	09/20/22	SC	SW8082A
PCB-1268	ND	140	ug/Kg	2	09/20/22	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	62		%	2	09/20/22	SC	30 - 150 %
% DCBP (Confirmation)	51		%	2	09/20/22	SC	30 - 150 %
% TCMX	55		%	2	09/20/22	SC	30 - 150 %
% TCMX (Confirmation)	57		%	2	09/20/22	SC	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

Hexavalent Chromium:
This sample is in a reducing state.

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

September 26, 2022

Reviewed and Released by: Helen Geoghegan, Project Manager



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

Analysis Report
 December 07, 2022

FOR: Attn: Mr. Steven Boske
 Town of Vernon
 P.O. Box 22
 Vernon, CT 06066

Sample Information

Matrix: SLUDGE
 Location Code: TWNVERN
 Rush Request: 24 Hour
 P.O.#:

Custody Information

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

Date Time
 11/18/22 9:00
 11/18/22 16:00

Laboratory Data

SDG ID: GCM89008
 Phoenix ID: CM89008

Project ID:
 Client ID: NOV SLUDGE

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	< 4.6	4.6	mg/Kg	1	11/23/22	TH	SW6010D
Beryllium	< 2.3	2.3	mg/Kg	1	11/23/22	TH	SW6010D
Cadmium	< 2.3	2.3	mg/Kg	1	11/23/22	TH	SW6010D
Chromium	17.6	2.3	mg/Kg	1	11/23/22	TH	SW6010D
Copper	390	2.3	mg/Kg	1	11/23/22	TH	SW6010D
Mercury	< 0.50	0.50	mg/kg	2	11/23/22	MGH	SW7471B
Nickel	11.7	2.3	mg/Kg	1	11/23/22	TH	SW6010D
Lead	16.4	2.3	mg/Kg	1	11/23/22	TH	SW6010D
Zinc	555	2.3	mg/Kg	1	11/23/22	TH	SW6010D
Percent Solid	4.53	0.05	%		11/18/22		SW846-%Solid
Total Solids @ 104C	4.53	0.1	%	1	11/18/22	JW/EG	SM2540B-15
Fixed Solids @ 500C	13.6	1.0	%	1	12/07/22	EG	SM2540E MOD-15
Chromium, Hex. (SW3060A digestion)	< 22	22	mg/Kg	1	11/22/22	DK	SW7196A
pH at 25C - Soil	5.25	1.00	pH Units	1	11/18/22 22:33	ER	SW846 9045D
Redox Potential	-213		mV	1	11/18/22	ER	SM2580B-09
Phosphorus, Total	8190	280	mg/Kg	25	11/22/22	MI	SM4500PE-11
Volatile Solids @ 500C	86.4	0.1	%	1	11/18/22	JW/EG	SM2540E MOD-15
Soil Extraction for PCB	Completed				11/21/22	O	SW3545A
Mercury Digestion	Completed				11/23/22	KL/AB	SW7471B
Extraction of ETPH	Completed				11/23/22	H/U	SW3546
Total Metals Digest	Completed				11/18/22	W/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	19000	3200	mg/Kg	1	11/27/22	JRB	CTETPH
Identification	**		mg/Kg	1	11/27/22	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	80		%	1	11/27/22	JRB	50 - 150 %
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Project ID:
Client ID: NOV SLUDGE

Phoenix I.D.: CM89008

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	88		%	1	11/27/22	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	390	ug/Kg	2	11/22/22	SC	SW8082A
PCB-1221	ND	390	ug/Kg	2	11/22/22	SC	SW8082A
PCB-1232	ND	390	ug/Kg	2	11/22/22	SC	SW8082A
PCB-1242	ND	390	ug/Kg	2	11/22/22	SC	SW8082A
PCB-1248	ND	390	ug/Kg	2	11/22/22	SC	SW8082A
PCB-1254	ND	390	ug/Kg	2	11/22/22	SC	SW8082A
PCB-1260	ND	390	ug/Kg	2	11/22/22	SC	SW8082A
PCB-1262	ND	390	ug/Kg	2	11/22/22	SC	SW8082A
PCB-1268	ND	390	ug/Kg	2	11/22/22	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	89		%	2	11/22/22	SC	30 - 150 %
% DCBP (Confirmation)	79		%	2	11/22/22	SC	30 - 150 %
% TCMX	65		%	2	11/22/22	SC	30 - 150 %
% TCMX (Confirmation)	62		%	2	11/22/22	SC	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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

Comments:

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

Hexavalent Chromium:
This sample is in a reducing state.

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

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Phyllis Shiller, Laboratory Director

December 07, 2022

Reviewed and Released by: Helen Geoghegan, Project Manager



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

Analysis Report

January 19, 2023

FOR: Attn: Mr. Steven Boske
 Town of Vernon
 P.O. Box 22
 Vernon, CT 06066

Sample Information

Matrix: SLUDGE
 Location Code: TWNVERN
 Rush Request: Standard
 P.O.#:

Custody Information

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

Date Time
 01/13/23 9:00
 01/13/23 11:45

Laboratory Data

SDG ID: GCN23210
 Phoenix ID: CN23210

Project ID:
 Client ID: JAN SLUDGE

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	1.9	1.1	mg/Kg	1	01/18/23	CPP	SW6010D
Beryllium	< 0.57	0.57	mg/Kg	1	01/18/23	CPP	SW6010D
Cadmium	0.72	0.57	mg/Kg	1	01/18/23	CPP	SW6010D
Chromium	8.80	0.57	mg/Kg	1	01/18/23	CPP	SW6010D
Copper	275	5.7	mg/Kg	10	01/18/23	CPP	SW6010D
Mercury	0.14	0.09	mg/kg	5	01/18/23	AL1	SW7471B
Nickel	8.29	0.57	mg/Kg	1	01/18/23	CPP	SW6010D
Lead	12.7	0.57	mg/Kg	1	01/18/23	CPP	SW6010D
Zinc	248	5.7	mg/Kg	10	01/18/23	CPP	SW6010D
Percent Solid	4.39	0.05	%		01/13/23		SW846-%Solid
Total Solids @ 104C	4.39	0.1	%	1	01/13/23	AKS/DK	SM2540B-15
Fixed Solids @ 500C	16.5	0.1	%	1	01/13/23	AKS/DK	SM2540E MOD-15
Chromium, Hex. (SW3060A digestion)	< 21	21	mg/Kg	1	01/14/23	DK	SW7196A
pH at 25C - Soil	5.37	1.00	pH Units	1	01/13/23 22:11	ER	SW846 9045D
Redox Potential	-96.3		mV	1	01/13/23	ER	SM2580B-09
Phosphorus, Total	6440	280	mg/Kg	25	01/17/23	JR	SM4500PE-11
Volatile Solids @ 500C	83.5	0.1	%	1	01/13/23	AKS/DK	SM2540E MOD-15
Soil Extraction for PCB	Completed				01/17/23	C/M	SW3545A
Mercury Digestion	Completed				01/17/23	AL/AB	SW7471B
Extraction of ETPH	Completed				01/16/23	R/F/U	SW3546
Total Metals Digest	Completed				01/13/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	20000	5600	mg/Kg	1	01/17/23	JRB	CTETPH
Identification	**		mg/Kg	1	01/17/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	76		%	1	01/17/23	JRB	50 - 150 %
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Project ID:
Client ID: JAN SLUDGE

Phoenix I.D.: CN23210

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	61		%	1	01/17/23	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	990	ug/Kg	2	01/18/23	SC	SW8082A
PCB-1221	ND	990	ug/Kg	2	01/18/23	SC	SW8082A
PCB-1232	ND	990	ug/Kg	2	01/18/23	SC	SW8082A
PCB-1242	ND	990	ug/Kg	2	01/18/23	SC	SW8082A
PCB-1248	ND	990	ug/Kg	2	01/18/23	SC	SW8082A
PCB-1254	ND	990	ug/Kg	2	01/18/23	SC	SW8082A
PCB-1260	ND	990	ug/Kg	2	01/18/23	SC	SW8082A
PCB-1262	ND	990	ug/Kg	2	01/18/23	SC	SW8082A
PCB-1268	ND	990	ug/Kg	2	01/18/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	73		%	2	01/18/23	SC	30 - 150 %
% DCBP (Confirmation)	77		%	2	01/18/23	SC	30 - 150 %
% TCMX	54		%	2	01/18/23	SC	30 - 150 %
% TCMX (Confirmation)	48		%	2	01/18/23	SC	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

Hexavalent Chromium:
This sample is in a reducing state.

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

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Phyllis Shiller, Laboratory Director

January 19, 2023

Reviewed and Released by: Helen Geoghegan, Project Manager



Environmental Laboratories, Inc.

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

Analysis Report
 March 24, 2023

FOR: Attn: Mr. Steven Boske
 Town of Vernon
 P.O. Box 22
 Vernon, CT 06066

Sample Information

Matrix: SLUDGE
 Location Code: TWNVERN
 Rush Request: Standard
 P.O.#:

Custody Information

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

Date

03/10/23
 03/10/23

Time

9:00
 12:58

Laboratory Data

SDG ID: GCN57189
 Phoenix ID: CN57189

Project ID:
 Client ID: MARCH SLUDGE

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	< 3.1	3.1	mg/Kg	1	03/16/23	TH	SW6010D
Beryllium	< 1.5	1.5	mg/Kg	1	03/16/23	TH	SW6010D
Cadmium	< 1.5	1.5	mg/Kg	1	03/16/23	TH	SW6010D
Chromium	13.1	1.5	mg/Kg	1	03/16/23	TH	SW6010D
Copper	299	1.5	mg/Kg	1	03/16/23	TH	SW6010D
Mercury	0.21	0.07	mg/kg	5	03/14/23	PM	SW7471B
Nickel	10.1	1.5	mg/Kg	1	03/16/23	TH	SW6010D
Lead	13.8	1.5	mg/Kg	1	03/16/23	TH	SW6010D
Zinc	312	1.5	mg/Kg	1	03/16/23	TH	SW6010D
Percent Solid	5.35	0.05	%		03/10/23		SW846-%Solid
Total Solids @ 104C	5.35	0.1	%	1	03/10/23	JW/NP	SM2540B-15
Fixed Solids @ 500C	10.0	0.1	%	1	03/10/23	JW/NP	SM2540E MOD-15
Chromium, Hex. (SW3060A digestion)	< 7.0	7.0	mg/Kg	1	03/13/23	DK	SW7196A
pH at 25C - Soil	5.46	1.00	pH Units	1	03/10/23 21:04	ER	SW846 9045D
Redox Potential	-136		mV	1	03/10/23	ER	SM2580B-09
Phosphorus, Total	7010	230	mg/Kg	25	03/14/23	JR	SM4500PE-11
Volatile Solids @ 500C	90.0	0.1	%	1	03/10/23	JW/NP	SM2540E MOD-15
Soil Extraction for PCB	Completed				03/22/23	C/MO	SW3545A
Mercury Digestion	Completed				03/13/23	AL/AL	SW7471B
Extraction of ETPH	Completed				03/10/23	/M	SW3546
Total Metals Digest	Completed				03/13/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	26000	9300	mg/Kg	2	03/14/23	JRB	CTETPH
Identification	**		mg/Kg	2	03/14/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	101		%	2	03/14/23	JRB	50 - 150 %
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Project ID:
Client ID: MARCH SLUDGE

Phoenix I.D.: CN57189

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	105		%	2	03/14/23	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	1100	ug/Kg	2	03/23/23	SC	SW8082A
PCB-1221	ND	1100	ug/Kg	2	03/23/23	SC	SW8082A
PCB-1232	ND	1100	ug/Kg	2	03/23/23	SC	SW8082A
PCB-1242	ND	1100	ug/Kg	2	03/23/23	SC	SW8082A
PCB-1248	ND	1100	ug/Kg	2	03/23/23	SC	SW8082A
PCB-1254	ND	1100	ug/Kg	2	03/23/23	SC	SW8082A
PCB-1260	ND	1100	ug/Kg	2	03/23/23	SC	SW8082A
PCB-1262	ND	1100	ug/Kg	2	03/23/23	SC	SW8082A
PCB-1268	ND	1100	ug/Kg	2	03/23/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	32		%	2	03/23/23	SC	30 - 150 %
% DCBP (Confirmation)	34		%	2	03/23/23	SC	30 - 150 %
% TCMX	16		%	2	03/23/23	SC	30 - 150 % 3
% TCMX (Confirmation)	17		%	2	03/23/23	SC	30 - 150 % 3

3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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

Comments:

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

Hexavalent Chromium:
This sample is in a reducing state.


TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

TPH Comment:
Extra silica gel added.

PCB Comment:
Poor surrogate recovery was observed for PCBs. Sample was re-extracted with similar results.

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

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



Phyllis Shiller, Laboratory Director

March 24, 2023

Reviewed and Released by: Helen Geoghegan, Project Manager



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

Analysis Report
 May 15, 2023

FOR: Attn: Mr. Steven Boske
 Town of Vernon
 P.O. Box 22
 Vernon, CT 06066

Sample Information

Matrix: SLUDGE
 Location Code: TWNVERN
 Rush Request: Standard
 P.O.#:

Custody Information

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

Date

05/05/23
 05/05/23

Time

9:00
 11:49

Laboratory Data

SDG ID: GCN98593
 Phoenix ID: CN98593

Project ID:
 Client ID: MAY SLUDGE

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	< 2.9	2.9	mg/Kg	1	05/09/23	TH	SW6010D
Beryllium	< 1.4	1.4	mg/Kg	1	05/09/23	TH	SW6010D
Cadmium	1.5	1.4	mg/Kg	1	05/09/23	TH	SW6010D
Chromium	17.6	1.4	mg/Kg	1	05/09/23	TH	SW6010D
Copper	270	1.4	mg/Kg	1	05/09/23	TH	SW6010D
Mercury	< 0.27	0.27	mg/kg	5	05/09/23	PM	SW7471B
Nickel	12.0	1.4	mg/Kg	1	05/09/23	TH	SW6010D
Lead	10.1	1.4	mg/Kg	1	05/09/23	TH	SW6010D
Zinc	386	1.4	mg/Kg	1	05/09/23	TH	SW6010D
Percent Solid	6.16	0.05	%		05/05/23		SW846-%Solid
Total Solids @ 104C	6.16	0.1	%	1	05/05/23	JW/NP	SM2540B-15
Fixed Solids @ 500C	17.4	0.1	%	1	05/05/23	JW/NP	SM2540E MOD-15
Chromium, Hex. (SW3060A digestion)	< 10	10	mg/Kg	1	05/09/23	DK	SW7196A
pH at 25C - Soil	5.55	1.00	pH Units	1	05/05/23 22:13	MW	SW846 9045D
Redox Potential	-125		mV	1	05/05/23	MW	SM2580B-09
Phosphorus, Total	8330	200	mg/Kg	25	05/08/23	JR	SM4500PE-11
Volatile Solids @ 500C	82.6	0.1	%	1	05/05/23	JW/NP	SM2540E MOD-15
Soil Extraction for PCB	Completed				05/10/23	C/Y	SW3545A
Mercury Digestion	Completed				05/08/23	Z/Z	SW7471B
Extraction of ETPH	Completed				05/11/23	MO/Y	SW3546
Total Metals Digest	Completed				05/05/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	52000	3700	mg/Kg	1	05/12/23	JRB	CTETPH
Identification	**		mg/Kg	1	05/12/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	Interference		%	1	05/12/23	JRB	50 - 150 %
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Project ID:
Client ID: MAY SLUDGE

Phoenix I.D.: CN98593

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	Interference		%	1	05/12/23	JRB	50 - 150 %
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PCB-1232	ND	380	ug/Kg	2	05/11/23	SC	SW8082A
PCB-1242	ND	380	ug/Kg	2	05/11/23	SC	SW8082A
PCB-1248	ND	380	ug/Kg	2	05/11/23	SC	SW8082A
PCB-1254	ND	380	ug/Kg	2	05/11/23	SC	SW8082A
PCB-1260	ND	380	ug/Kg	2	05/11/23	SC	SW8082A
PCB-1262	ND	380	ug/Kg	2	05/11/23	SC	SW8082A
PCB-1268	ND	380	ug/Kg	2	05/11/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	60		%	2	05/11/23	SC	30 - 150 %
% DCBP (Confirmation)	65		%	2	05/11/23	SC	30 - 150 %
% TCMX	46		%	2	05/11/23	SC	30 - 150 %
% TCMX (Confirmation)	46		%	2	05/11/23	SC	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
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Phyllis Shiller, Laboratory Director

May 15, 2023

Reviewed and Released by: Helen Geoghegan, Project Manager