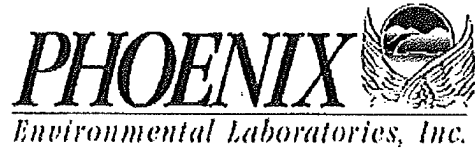


NY
[Redacted]
JULY 2015

7-2015



Friday, July 17, 2015

Attn: Mr. Tom Deller
Veolia Water, Naugatuck Plant
500 Cherry Street
Naugatuck, CT 06770

Project ID: NAUGATUCK
Sample ID#s: BJ43184

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

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

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



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

Analysis Report
 July 17, 2015

FOR: Attn: Mr. Tom Deller
 Veolia Water, Naugatuck Plant
 500 Cherry Street
 Naugatuck, CT 06770

Sample Information

Matrix: SLUDGE
 Location Code: VEOLIANA
 Rush Request: Standard
 P.O.#: 7766000379

Custody Information

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

Date Time
 07/08/15
 07/08/15 15:39

Laboratory Data

SDG ID: GBJ43184
 Phoenix ID: BJ43184

Project ID: NAUGATUCK
 Client ID: SLUDGE

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	< 1.1	1.1	mg/Kg	1	07/09/15	LK	SW6010C
Beryllium	< 0.54	0.54	mg/Kg	1	07/09/15	LK	SW6010C
Cadmium	0.92	0.54	mg/Kg	1	07/09/15	LK	SW6010C
Chromium	10.6	0.54	mg/Kg	1	07/09/15	LK	SW6010C
Copper	461	5.4	mg/Kg	10	07/09/15	LK	SW6010C
Mercury	0.63	0.12	mg/kg	1	07/09/15	RS	SW7471B
Nickel	10.7	0.54	mg/Kg	1	07/09/15	LK	SW6010C
Lead	54.2	0.54	mg/Kg	1	07/09/15	LK	SW6010C
Selenium	7.1	2.7	mg/Kg	1	07/09/15	LK	SW6010C
Zinc	517	5.4	mg/Kg	10	07/09/15	LK	SW6010C
Percent Solid	21.4	1	%				SW846-%Solid
Total Solids @ 104C	21.4	0.1	%	1	07/09/15	KH/TM	SM2540B-97
Fixed Solids @ 500C	16.0	0.1	%	1	07/09/15	KH/TM	E160.4
Nitrite as N	< 0.47	0.47	mg/kg	10	07/09/15	BS/EG	SW9056A
Nitrate as N	< 2.3	2.3	mg/kg	10	07/09/15	BS/EG	SW9056A
Organic Nitrogen	45800	380	mg/Kg	1	07/17/15	WHM	E350.1/E350.2
pH - Sludge	6.11	0.10	pH Units	1	07/08/15 21:00	DH/KDB	SW9045
Nitrogen Tot Kjeidahl	60700	2400	mg/Kg	5	07/14/15	WHM	E351.1
Total Nitrogen	60700	0.05	mg/Kg	1	07/14/15	WHM	SM4500NH3/E300.0
Volatile Solids @ 500C	84.0	0.1	%	1	07/09/15	KH/TM	SM2540E/E160.4-9
Mercury Digestion	Completed				07/09/15	I/I	SW7471B
Sludge Ext. for PCB	Completed				07/10/15	M/M	SW3550C
Total Metals Digest	Completed				07/08/15	GI/AGI	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	450	ug/Kg	1	07/11/15	AW	SW8082A
PCB-1221	ND	450	ug/Kg	1	07/11/15	AW	SW8082A
PCB-1232	ND	450	ug/Kg	1	07/11/15	AW	SW8082A

Project ID: NAUGATUCK
Client ID: SLUDGE

Phoenix I.D.: BJ43184

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1242	ND	450	ug/Kg	1	07/11/15	AW	SW8082A
PCB-1248	ND	450	ug/Kg	1	07/11/15	AW	SW8082A
PCB-1254	ND	450	ug/Kg	1	07/11/15	AW	SW8082A
PCB-1260	ND	450	ug/Kg	1	07/11/15	AW	SW8082A
PCB-1262	ND	450	ug/Kg	1	07/11/15	AW	SW8082A
PCB-1268	ND	450	ug/Kg	1	07/11/15	AW	SW8082A
QA/QC Surrogates							
% DCBP	77		%	1	07/11/15	AW	30 - 150 %
% TCMX	58		%	1	07/11/15	AW	30 - 150 %

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

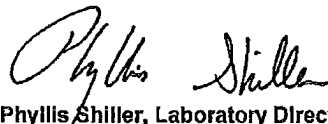
Comments:

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 17, 2015

Reviewed and Released by: Deb Lawrie, Project Manager



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

QA/QC Report

July 17, 2015

QA/QC Data

SDG I.D.: GBJ43184

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 313209 (mg/kg), QC Sample No: BJ42878 (BJ43184)													
Mercury - Soil	BRL	0.06	<0.03	<0.03	NC	95.4	91.9	3.7	90.5	96.4	6.3	70 - 130	30
Comment: Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.													
QA/QC Batch 313190 (mg/kg), QC Sample No: BJ43213 (BJ43184)													
<u>ICP Metals - Soil</u>													
Arsenic	BRL	0.67	22.1	26.4	17.7	96.5	98.5	2.1	86.1	85.2	1.1	75 - 125	30
Beryllium	BRL	0.27	2.33	2.61	11.3	96.8	97.9	1.1	84.2	81.4	3.4	75 - 125	30
Cadmium	BRL	0.33	0.81	1.08	NC	96.3	98.6	2.4	81.8	78.7	3.9	75 - 125	30
Chromium	BRL	0.33	46.4	54.1	15.3	102	104	1.9	91.2	89.6	1.8	75 - 125	30
Copper	BRL	0.33	349	439	22.8	103	105	1.9	113	>130	NC	75 - 125	30 m
Lead	BRL	0.33	104	138	28.1	95.4	100	4.7	90.0	93.6	3.9	75 - 125	30
Nickel	BRL	0.33	30.8	37.0	18.3	101	102	1.0	86.7	84.4	2.7	75 - 125	30
Selenium	BRL	1.3	<1.2	<1.2	NC	81.9	82.9	1.2	79.1	76.9	2.8	75 - 125	30
Zinc	BRL	0.33	573	687	18.1	96.8	97.6	0.8	89.8	>130	NC	75 - 125	30 m

m = This parameter is outside laboratory ms/msd specified recovery limits.



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

QA/QC Report

July 17, 2015

QA/QC Data

SDG I.D.: GBJ43184

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 313205 (PH), QC Sample No: BJ42866 (BJ43184)													
pH - Soil			8.20	8.23	0.40	98.3						85 - 115	20
QA/QC Batch 313620 (mg/L), QC Sample No: BJ43057 (BJ43184)													
Nitrogen Tot Kjeldahl	BRL	0.10	1.65	1.63	1.20	88.4			89.0			85 - 115	20
QA/QC Batch 313331 (mg/L), QC Sample No: BJ43332 (BJ43184)													
Nitrate as Nitrogen	BRL	0.05	0.53	0.52	1.90	94.5			100			85 - 115	20
Nitrite as Nitrogen	BRL	0.01	<0.01	<0.01	NC	98.0			108			85 - 115	20
QA/QC Batch 314069 (mg/L), QC Sample No: BJ46928 (BJ43184)													
Nitrogen Tot Kjeldahl	BRL	0.10	1.09	1.06	2.80	91.4			101			85 - 115	20



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 Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

July 17, 2015

QA/QC Data

SDG I.D.: GBJ43184

Parameter	Blank	Bik RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 313129 (ug/Kg), QC Sample No: BJ41932 (BJ43184)										
<u>Polychlorinated Biphenyls - Sludge</u>										
PCB-1016	ND	13	86	50	52.9				40 - 140	30 r
PCB-1221	ND	13							40 - 140	30
PCB-1232	ND	13							40 - 140	30
PCB-1242	ND	13							40 - 140	30
PCB-1248	ND	13							40 - 140	30
PCB-1254	ND	13							40 - 140	30
PCB-1260	ND	13	100	63	45.4				40 - 140	30 r
PCB-1262	ND	13							40 - 140	30
PCB-1268	ND	13							40 - 140	30
% DCBP (Surrogate Rec)	102	%	117	64	58.6				30 - 150	30 r
% TCMX (Surrogate Rec)	78	%	89	51	54.3				30 - 150	30 r

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference

Phyllis Shiller
 Phyllis Shiller, Laboratory Director
 July 17, 2015

Friday, July 17, 2016
Criteria: None
State: CT

Sample Criteria Exceedences Report

GBJ43184 - VEOLIANA

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

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

M53

5-2015



Monday, June 01, 2015

Attn: Mr. Tom Deller
Veolia Water, Naugatuck Plant
500 Cherry Street
Naugatuck, CT 06770

Project ID: NAUGATUCK
Sample ID#s: BJ21662

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

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

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in cursive script that reads "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



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

Analysis Report
 June 01, 2015

FOR: Attn: Mr. Tom Deller
 Veolia Water, Naugatuck Plant
 500 Cherry Street
 Naugatuck, CT 06770

Sample Information

Matrix: SLUDGE
 Location Code: VEOLIANA
 Rush Request: Standard
 P.O.#: 7766000379

Custody Information

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

Date Time
 05/22/15
 05/26/15 15:30

Laboratory Data

SDG ID: GBJ21662
 Phoenix ID: BJ21662

Project ID: NAUGATUCK
 Client ID: SLUDGE

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	1.3	0.6	mg/Kg	1	05/27/15	LK	SW6010C
Beryllium	< 0.30	0.30	mg/Kg	1	05/27/15	LK	SW6010C
Cadmium	0.59	0.30	mg/Kg	1	05/27/15	LK	SW6010C
Chromium	5.60	0.30	mg/Kg	1	05/27/15	LK	SW6010C
Copper	162	3.0	mg/Kg	10	05/27/15	LK	SW6010C
Mercury	< 0.22	0.22	mg/Kg	1	05/27/15	RS	SW7471B
Nickel	5.10	0.30	mg/Kg	1	05/27/15	LK	SW6010C
Lead	4.78	0.30	mg/Kg	1	05/27/15	LK	SW6010C
Selenium	3.5	1.5	mg/Kg	1	05/27/15	LK	SW6010C
Zinc	570	3.0	mg/Kg	10	05/27/15	LK	SW6010C
Percent Solid	3.54	1	%				SW846-%Solid
Total Solids @ 104C	3.54	0.1	%	1	05/27/15	MN/KH	SM2540B-97
Fixed Solids @ 500C	13.6	0.1	%	1	05/27/15	MN/KH	E160.4
pH - Sludge	5.29	0.10	pH Units	1	05/26/15 20:00	DH/KDB	SW9045
Volatile Solids @ 500C	86.4	0.1	%	1	05/27/15	MN/KH	SM2540E/E160.4-9
Mercury Digestion	Completed				05/27/15	I/I	SW7471B
Sludge Ext. for PCB	Completed				05/28/15	B/T	SW3550C
Total Metals Digest	Completed				05/26/15	CB/AGI	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	2800	ug/Kg	1	05/29/15	AW	SW8082A
PCB-1221	ND	2800	ug/Kg	1	05/29/15	AW	SW8082A
PCB-1232	ND	2800	ug/Kg	1	05/29/15	AW	SW8082A
PCB-1242	ND	2800	ug/Kg	1	05/29/15	AW	SW8082A
PCB-1248	ND	2800	ug/Kg	1	05/29/15	AW	SW8082A
PCB-1254	ND	2800	ug/Kg	1	05/29/15	AW	SW8082A
PCB-1260	ND	2800	ug/Kg	1	05/29/15	AW	SW8082A
PCB-1262	ND	2800	ug/Kg	1	05/29/15	AW	SW8082A

Project ID: NAUGATUCK
Client ID: SLUDGE

Phoenix I.D.: BJ21662

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1268	ND	2800	ug/Kg	1	05/29/15	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	78		%	1	05/29/15	AW	30 - 150 %
% TCMX	60		%	1	05/29/15	AW	30 - 150 %

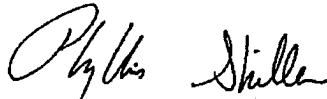
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

June 01, 2015

Reviewed and Released by: Deb Lawrie, Project Manager



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

QA/QC Report

June 01, 2015

QA/QC Data

SDG I.D.: GBJ21662

Parameter	Blank	Bik RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 308955 (mg/kg), QC Sample No: BJ21155 (BJ21662)														
Mercury - Soil	BRL	0.06	0.35	0.51	37.2	106	112	5.5	76.0	162	72.3	70 - 130	30	m,r
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.														
QA/QC Batch 308919 (mg/kg), QC Sample No: BJ21668 (BJ21662)														
ICP Metals - Soil														
Arsenic	BRL	0.66	0.9	0.72	NC	103	102	1.0	93.4	94.9	1.6	75 - 125	30	
Beryllium	BRL	0.26	0.31	0.33	NC	105	104	1.0	98.2	98.7	0.5	75 - 125	30	
Cadmium	BRL	0.33	<0.32	<0.31	NC	104	99.6	4.3	95.0	96.5	1.6	75 - 125	30	
Chromium	BRL	0.33	7.50	7.80	3.90	110	107	2.8	101	98.9	2.1	75 - 125	30	
Copper	BRL	0.33	20.7	14.4	35.9	112	111	0.9	107	100	6.8	75 - 125	30	r
Lead	BRL	0.33	25.1	26.9	6.90	104	102	1.9	96.1	95.0	1.2	75 - 125	30	
Nickel	BRL	0.33	5.85	6.41	9.10	109	103	5.7	97.3	96.8	0.5	75 - 125	30	
Selenium	BRL	1.3	<1.3	<1.3	NC	91.5	90.3	1.3	86.1	87.1	1.2	75 - 125	30	
Zinc	BRL	0.33	30.8	31.1	1.00	103	103	0.0	103	92.8	10.4	75 - 125	30	

m = This parameter is outside laboratory ms/msd specified recovery limits.
 r = This parameter is outside laboratory rpd specified recovery limits.



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

QA/QC Report

June 01, 2015

QA/QC Data

SDG I.D.: GBJ21662

Parameter	Blank	Bik RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 308966 (), QC Sample No: BJ21454 (BJ21662)													
Total Solids	BRL	0.1	24.0	24.2	0.80	100						85 - 115	30
QA/QC Batch 308953 (PH), QC Sample No: BJ21628 (BJ21662)													
pH - Soil			4.47	4.60	2.90	100						85 - 115	20



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

QA/QC Report

June 01, 2015

QA/QC Data

SDG I.D.: GBJ21662

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
QA/QC Batch 309150 (ug/Kg), QC Sample No: BJ21662 (BJ21662)										
Polychlorinated Biphenyls - Sludge										
PCB-1016	ND	13	58	58	0.0				40 - 140	30
PCB-1221	ND	13							40 - 140	30
PCB-1232	ND	13							40 - 140	30
PCB-1242	ND	13							40 - 140	30
PCB-1248	ND	13							40 - 140	30
PCB-1254	ND	13							40 - 140	30
PCB-1260	ND	13	79	80	1.3				40 - 140	30
PCB-1262	ND	13							40 - 140	30
PCB-1268	ND	13							40 - 140	30
% DCBP (Surrogate Rec)	106	%	106	104	1.9				30 - 150	30
% TCMX (Surrogate Rec)	60	%	55	53	3.7				30 - 150	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference

Phyllis Shiller
 Phyllis Shiller, Laboratory Director
 June 01, 2015

Sample Criteria Exceedences Report

GBJ21662 - VEOLIANA

Criteria: None

State: CT

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

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

M60
2-2-2015
8-2015



Tuesday, August 25, 2015

Attn: Mr. Tom Deller
Veolia Water, Naugatuck Plant
500 Cherry Street
Naugatuck, CT 06770

Project ID: NAUGATUCK
Sample ID#s: BJ77515

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

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

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in cursive script that reads "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



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

Analysis Report

August 25, 2015

FOR: Attn: Mr. Tom Deller
 Veolia Water, Naugatuck Plant
 500 Cherry Street
 Naugatuck, CT 06770

Sample Information

Matrix: SLUDGE
 Location Code: VEOLIANA
 Rush Request: Standard
 P.O.#: 7766000379

Custody Information

Collected by: TD
 Received by: LK
 Analyzed by: see "By" below

Date Time

08/18/15
 08/19/15 15:53

Laboratory Data

SDG ID: GBJ77515
 Phoenix ID: BJ77515

Project ID: NAUGATUCK

Client ID: SLUDGE

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	1.9	0.7	mg/Kg	1	08/20/15	LK	SW6010C
Beryllium	< 0.33	0.33	mg/Kg	1	08/20/15	LK	SW6010C
Cadmium	< 0.33	0.33	mg/Kg	1	08/20/15	LK	SW6010C
Chromium	8.63	0.33	mg/Kg	1	08/20/15	LK	SW6010C
Copper	313	3.3	mg/Kg	10	08/20/15	LK	SW6010C
Mercury	< 0.22	0.22	mg/kg	1	08/21/15	RS	SW7471B
Nickel	8.49	0.33	mg/Kg	1	08/20/15	LK	SW6010C
Lead	26.0	0.33	mg/Kg	1	08/20/15	LK	SW6010C
Selenium	9.5	1.7	mg/Kg	1	08/20/15	LK	SW6010C
Zinc	632	3.3	mg/Kg	10	08/20/15	LK	SW6010C
Total Solids @ 104C	3.59	0.1	%	1	08/20/15	KH	SM2540B-97 B
Fixed Solids @ 500C	39.1	0.1	%	1	08/20/15	KH	E160.4
pH - Sludge	7.08	0.10	pH Units	1	08/20/15 21:00	DH/KDB	SW9045
Volatile Solids @ 500C	60.9	0.1	%	1	08/20/15	KH	SM2540E/E160.4-9
Mercury Digestion	Completed				08/21/15	I/I	SW7471B
Sludge Ext. for PCB	Completed				08/20/15	M/M	SW3550C
Total Metals Digest	Completed				08/19/15	GI/AGI	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	2700	ug/Kg	1	08/22/15	AW	SW8082A
PCB-1221	ND	2700	ug/Kg	1	08/22/15	AW	SW8082A
PCB-1232	ND	2700	ug/Kg	1	08/22/15	AW	SW8082A
PCB-1242	ND	2700	ug/Kg	1	08/22/15	AW	SW8082A
PCB-1248	ND	2700	ug/Kg	1	08/22/15	AW	SW8082A
PCB-1254	ND	2700	ug/Kg	1	08/22/15	AW	SW8082A
PCB-1260	ND	2700	ug/Kg	1	08/22/15	AW	SW8082A
PCB-1262	ND	2700	ug/Kg	1	08/22/15	AW	SW8082A
PCB-1268	ND	2700	ug/Kg	1	08/22/15	AW	SW8082A

Project ID: NAUGATUCK
Client ID: SLUDGE

Phoenix I.D.: BJ77515

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>QA/QC Surrogates</u>							
% DCBP	85		%	1	08/22/15	AW	30 - 150 %
% TCMX	71		%	1	08/22/15	AW	30 - 150 %

B = Present in blank, no bias suspected.

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

Comments:

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

August 25, 2015

Reviewed and Released by: Deb Lawrie, Project Manager



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

QA/QC Report

August 25, 2015

QA/QC Data

SDG I.D.: GBJ77515

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 317743 (mg/kg), QC Sample No: BJ77605 (BJ77515)													
<u>ICP Metals - Soil</u>													
Arsenic	BRL	0.67	3.8	3.67	3.50	90.6	92.7	2.3	93.4	93.6	0.2	75 - 125	30
Beryllium	BRL	0.27	0.39	0.34	NC	92.7	93.4	0.8	98.1	97.9	0.2	75 - 125	30
Cadmium	BRL	0.33	<0.34	<0.35	NC	85.8	87.5	2.0	90.4	90.6	0.2	75 - 125	30
Chromium	BRL	0.33	14.6	15.6	6.60	96.1	97.1	1.0	99.0	100	1.0	75 - 125	30
Copper	BRL	0.33	19.4	22.3	13.9	94.4	93.9	0.5	105	105	0.0	75 - 125	30
Lead	BRL	0.33	233	3250	173	89.2	89.9	0.8	108	107	0.9	75 - 125	30
Nickel	BRL	0.33	12.8	11.1	14.2	95.4	95.4	0.0	93.3	93.2	0.1	75 - 125	30
Selenium	BRL	1.3	<1.4	<1.4	NC	81.6	84.4	3.4	81.8	82.0	0.2	75 - 125	30
Zinc	BRL	0.33	90.1	134	39.2	87.0	88.0	1.1	103	101	2.0	75 - 125	30
QA/QC Batch 317940 (mg/kg), QC Sample No: BJ77853 (BJ77515)													
Mercury - Soil	BRL	0.06	0.11	0.11	NC	93.8	90.3	3.8	122	97.2	22.6	70 - 130	30

Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.

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



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

QA/QC Report

August 25, 2015

QA/QC Data

SDG I.D.: GBJ77515

Parameter	Blank	Bk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 317819 (), QC Sample No: BJ76658 (BJ77515)													
Total Solids	0.169	0.1	21.6	21.1	2.30	100						85 - 115	30
QA/QC Batch 317946 (PH), QC Sample No: BJ78287 (BJ77515)													
pH - Soil			6.07	6.02	0.80	98.4						85 - 115	20



Environmental Laboratories, Inc.
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QA/QC Report

August 25, 2015


QA/QC Data

SDG I.D.: GBJ77515

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
QA/QC Batch 317852 (ug/Kg), QC Sample No: BJ74778 (BJ77515)										
<u>Polychlorinated Biphenyls - Sludge</u>										
PCB-1016	ND	13	61	60	1.7				40 - 140	30
PCB-1221	ND	13							40 - 140	30
PCB-1232	ND	13							40 - 140	30
PCB-1242	ND	13							40 - 140	30
PCB-1248	ND	13							40 - 140	30
PCB-1254	ND	13							40 - 140	30
PCB-1260	ND	13	73	74	1.4				40 - 140	30
PCB-1262	ND	13							40 - 140	30
PCB-1268	ND	13							40 - 140	30
% DCBP (Surrogate Rec)	86	%	90	85	5.7				30 - 150	30
% TCMX (Surrogate Rec)	60	%	65	62	4.7				30 - 150	30

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference


 Phyllis Shiller, Laboratory Director
 August 25, 2015

Sample Criteria Exceedences Report

GBJ77515 - VEOLIANA

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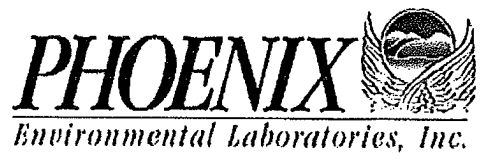
*** No Data to Display ***

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

M48



4-2015



Monday, May 04, 2015

Attn: Mr. Tom Deller
Veolia Water, Naugatuck Plant
500 Cherry Street
Naugatuck, CT 06770

Project ID: NAUGATUCK
Sample ID#s: BJ08846

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



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

Analysis Report
 May 04, 2015

FOR: Attn: Mr. Tom Deller
 Veolia Water, Naugatuck Plant
 500 Cherry Street
 Naugatuck, CT 06770

Sample Information

Matrix: WASTE WATER
 Location Code: VEOLIANA
 Rush Request: Standard
 P.O.#: 7766000379

Custody Information

Collected by: TD
 Received by: B
 Analyzed by: see "By" below

Date Time
 04/27/15
 04/28/15 15:40

Laboratory Data

SDG ID: GBJ08846
 Phoenix ID: BJ08846

Project ID: NAUGATUCK
 Client ID: WASTEWATER

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	< 0.040	0.040	mg/L	1	04/30/15	LK	E200.7
Beryllium	< 0.010	0.010	mg/L	1	04/30/15	LK	E200.7
Cadmium	0.0130	0.0020	mg/L	1	04/30/15	RS	SM3113B
Chromium	0.314	0.010	mg/L	1	04/30/15	LK	E200.7
Copper	9.99	0.050	mg/L	1	04/30/15	LK	E200.7
Mercury	0.0080	0.0004	mg/L	1	04/30/15	RS	E245.1
Nickel	0.257	0.010	mg/L	1	04/30/15	LK	E200.7
Lead	0.511	0.020	mg/L	1	04/30/15	LK	E200.7
Selenium	0.049	0.020	mg/L	1	04/30/15	RS	SM3113B-10
Zinc	15.9	0.020	mg/L	1	04/30/15	LK	E200.7
Fixed Solids	3600	10	mg/L	1	04/30/15	KH	SM209D/E160.4
pH	6.89	0.10	pH Units	1	04/28/15 21:51	RWR/KDB	SM4500-H B-00
Total Solids	14000	100	mg/L	10	04/30/15	KH	SM2540B-97
Volatile Solids	11000	100	mg/L	1	04/30/15	KH	SM2540E/E160.4-9
Mercury Digestion	Completed				04/30/15	I/I	E245.1
PCB Extraction	Completed				04/28/15	T	SW3510C
Total Metals Digestion	Completed				04/29/15	AG	

Polychlorinated Biphenyls

PCB-1016	ND	5.0	ug/L	1	04/29/15	KCA	E608
PCB-1221	ND	5.0	ug/L	1	04/29/15	KCA	E608
PCB-1232	ND	5.0	ug/L	1	04/29/15	KCA	E608
PCB-1242	ND	5.0	ug/L	1	04/29/15	KCA	E608
PCB-1248	ND	5.0	ug/L	1	04/29/15	KCA	E608
PCB-1254	ND	5.0	ug/L	1	04/29/15	KCA	E608
PCB-1260	ND	5.0	ug/L	1	04/29/15	KCA	E608
PCB-1262	ND	5.0	ug/L	1	04/29/15	KCA	E608
PCB-1268	ND	5.0	ug/L	1	04/29/15	KCA	E608

Project ID: NAUGATUCK
Client ID: WASTEWATER

Phoenix I.D.: BJ08846

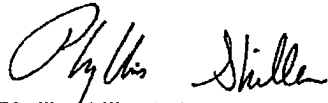
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>QA/QC Surrogates</u>							
% DCBP	Interference		%	1	04/29/15	KCA	30 - 150 %
% TCMX	64		%	1	04/29/15	KCA	30 - 150 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

May 04, 2015

Reviewed and Released by: Deb Lawrie, Project Manager



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

QA/QC Report

May 04, 2015

QA/QC Data

SDG I.D.: GBJ08846

Parameter	Blank	Bik RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 306039 (mg/L), QC Sample No: BJ08120 (BJ08846)													
Cadmium - Water	BRL	0.0001	<0.0001	<0.0001	NC	115	115	0.0	119	119	0.0	75 - 125	20
Selenium - Water	BRL	0.005	<0.001	<0.005	NC	108	110	1.8	102	105	2.9	75 - 125	20
QA/QC Batch 306313 (mg/L), QC Sample No: BJ09447 (BJ08846)													
<u>ICP Metals - Aqueous</u>													
Arsenic	BRL	0.004	0.005	<0.004	NC	101	99.0	2.0	105	107	1.9	75 - 125	20
Beryllium	BRL	0.001	<0.001	<0.001	NC	96.0	94.0	2.1	98.1	97.8	0.3	75 - 125	20
Chromium	BRL	0.001	<0.001	<0.001	NC	99.1	96.6	2.6	99.9	101	1.1	75 - 125	20
Copper	BRL	0.005	0.007	0.007	NC	95.8	96.1	0.3	98.1	97.8	0.3	75 - 125	20
Lead	BRL	0.002	<0.002	<0.002	NC	98.2	96.3	2.0	99.2	100	0.8	75 - 125	20
Nickel	BRL	0.001	0.002	0.002	NC	98.8	96.6	2.3	101	102	1.0	75 - 125	20
Zinc	BRL	0.002	0.034	0.034	0	97.6	95.6	2.1	102	102	0.0	75 - 125	20
QA/QC Batch 306369 (mg/L), QC Sample No: BJ09967 (BJ08846)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	108	102	5.7	101	94.5	6.6	70 - 130	20
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.													



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

QA/QC Report
 May 04, 2015

QA/QC Data

SDG I.D.: GBJ08846

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 306412 (mg/L), QC Sample No: BJ08846 (BJ08846)													
Total Solids	BRL	10	14000	14000	0	97.0						85 - 115	20



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

QA/QC Report

May 04, 2015

QA/QC Data

SDG I.D.: GBJ08846

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 306182 (ug/L), QC Sample No: BJ09237 (BJ08846)										
<u>Polychlorinated Biphenyls - Waste Water</u>										
PCB-1016	ND	0.050	96	110	13.6				40 - 140	20
PCB-1221	ND	0.050							40 - 140	20
PCB-1232	ND	0.050							40 - 140	20
PCB-1242	ND	0.050							40 - 140	20
PCB-1248	ND	0.050							40 - 140	20
PCB-1254	ND	0.050							40 - 140	20
PCB-1260	ND	0.050	124	133	7.0				40 - 140	20
PCB-1262	ND	0.050							40 - 140	20
PCB-1268	ND	0.050							40 - 140	20
% DCBP (Surrogate Rec)	67	%	61	78	24.5				30 - 150	20
% TCMX (Surrogate Rec)	65	%	97	90	7.5				30 - 150	20

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller
 Phyllis Shiller, Laboratory Director
 May 04, 2015

Sample Criteria Exceedences Report

Criteria: None

State: CT

GBJ08846 - VEOLIANA

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

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

Cooler: Yes No
 Coolant: IPK ICE No

Temp °C °F Pg of

Data Delivery:
 Fax # _____
 Email: tom.deller@veolia.com

CHAIN OF CUSTODY RECORD
 587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726



Customer: Veolia Water, NA
 Address: 500 Cherry St Ext
 Naugatuck, Ct 06770
 Attn: Tom Deller

Project: Naugatuck
 Report to: Tom Deller
 Invoice to: [Redacted] - 2nd Qtr
 Phone #: 203-723-1433 ext 2004
 Fax #: 203-723-8539

Project P.O. [Redacted] 2nd Qtr

This section MUST be completed with Bottle Quantities.

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request
08840	Wastewater	WW	4/27/15	N/A	Asenic, Beryllium, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, PH, PCBs, Selenium, Trihalo solids, Total Solids, Volatile solids, Zinc
					40 ml VOA Vial (9) or GL Soil container (9) or GL Amber 100ml (1) as is (HCL)
					GL Soil container (9) or GL Amber 100ml (1) as is (HCL)
					PL As is (1250ml) (1500ml) (1000ml) (1) as is (HCL)
					PL HSC4 (X) (250ml) (1500ml) (1) (1000ml)
					PL HNO3 250ml
					Bacteria bottle

Requisitioned by: [Signature] Accepted by: [Signature]

Date: 4-28-15 2:15 PM
 4/28/15 15:40

Turnaround:
 1 Day
 2 Days*
 3 Days*
 Standard
 Other

Comments, Special Requirements or Regulations:
 Pawling - 2nd Qtr

State where samples were collected: _____

* SURCHARGE APPLIES

* SURCHARGE APPLIES

Coolant: IPK ICE No No
 Temp °C Pg of

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726



Data Delivery:
 Fax #:
 Email: tom.deller@veolia.com

Customer: Veolia Water, NA
 Address: 500 Cherry St Ext
 Naugatuck, Ct 06770
 Attn: Tom Deller

Project: Naugatuck
 Report to: Tom Deller
 Invoice to: [Redacted] 2nd Qtr
 Phone #: 203-723-1433 ext 2004
 Fax #: 203-723-8539

Project P.O. [Redacted] 2nd Qtr

This section MUST be completed with Bottle Quantities.

Sampler's Signature: *[Signature]* T-Deller Date: 4-28-15
 Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe
 OIL=Oil B=Bulk L=Liquid

Analysis Request	Asenic, Barium, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, pH, PCBs, Selenium, Volatile solids, Total Solids, Fixed solids, Total Solids
	Spill VOA Vals (methanol) H2O
	40 ml VOA Vial (As is) HCl
	GI Soil container (8) oz
	GI Soil container (8) oz
	GI Amber 1000ml (As is) HCl
	PL As is (250ml) 500ml (X) H2SO4
	PL H2SO4 (X) 250ml (500ml)
	PL HNO3 250ml
	Bacteria Bottle

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	RI	CI	MA	Data Format
	Wastewater	WW	4/27/15	N/A	X	X	X	Excel
								PDF
								GIS/Key
								EQUIS
								Other
								Data Package
								Tier II Checklist
								Full Data Package*
								Phoenix Std Report
								Other

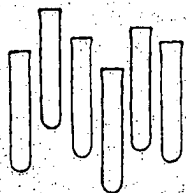
Relinquished by: *[Signature]* T-Deller Date: 4-28-15
 Accepted by: *[Signature]* T-Deller Date: 4-28-15

Turnaround:
 1 Day*
 2 Days*
 3 Days*
 Standard
 Other

Comments, Special Requirements or Regulations:
 Pawling - 2nd Qtr

State where samples were collected: _____

* SURCHARGE APPLIES

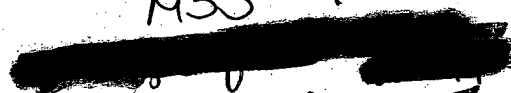


SMITH LABORATORY

ENVIRONMENTAL TESTING
4 SCENIC DRIVE & RT. 9
HYDE PARK, NEW YORK 12538
(845) 229-6536

COPY

MSS



(sludge)

Dear Client:

Attached please find the Certificates of Analysis detailing the test results for your sample(s).

The information contained in this report is true and accurate to the best of our knowledge. Smith Laboratory makes no guarantee or warranty in respect to this report and assumes no liability in excess of the amount invoiced. If you have questions regarding its contents or if you require any further assistance, please do not hesitate to call. We look forward to serving you in the future.

Sincerely,

Anne G. Smith
Laboratory Director



Microbac Laboratories Inc., Sayre Division

CERTIFICATE OF ANALYSIS

S5D1462

Smith Laboratories

Anne Smith
4 Scenic Drive
Hyde Park, NY 12538

Project Name:

Project / PO Number: N/A
Received: 04/24/2015 17:00
Reported: 05/11/2015 10:12

Analytical Testing Parameters

Client Sample ID: 233856-Sludge Cake
Lab Sample ID: S5D1462-01
Sample Type: Grab

Collected By: PR
Collection Date: 04/22/15
Collection Time: 08:45

Table with columns: General Parameters, Result, MDL, PQL, Units, Note, Prepared, Analyzed, Analyst. Rows include pH, Temperature, Inorganics (Nitrogen, Ammonia, Total Kjeldahl Nitrogen, Percent Solids, Total Volatile Solids, Nitrate, Nitrite).

Microbac Laboratories, Inc. - Ohio Valley

Table with columns: Mercury, Result, MDL, PQL, Units, Note, Prepared, Analyzed, Analyst. Rows include Mercury, Total and Metals by 6010 (Arsenic, Beryllium, Cadmium, Chromium, Copper, Lead, Nickel, Selenium, Zinc).

Microbac Laboratories, Inc.



Microbac Laboratories Inc., Sayre Division

CERTIFICATE OF ANALYSIS

S5D1462

Analytical Testing Parameters

Client Sample ID: 233856-Sludge Cake
Lab Sample ID: S5D1462-01
Sample Type: Grab

Collected By: PR
Collection Date: 04/22/15
Collection Time: 08:45

Table with 10 columns: PCB SOLID, Result, MDL, PQL, Units, Note, Prepared, Analyzed, Analyst. Rows include Method: 8082A and various Aroclor compounds with their respective results and limits.

Table with 10 columns: Percent Solids, Result, MDL, PQL, Units, Note, Prepared, Analyzed, Analyst. Row includes Method: D2216 and Percent Solids result of 14.3.

Definitions

- *: Surrogate or spike compound out of range
J: The analyte was positively identified, but the quantitation was below the RL
MDL: Minimum Detection Limit
PQL: Practical Quantitation Limit
Y: This analyte is not on the laboratory's current Scope of Accreditation.

Cooler Receipt Log:

Cooler ID: Default Cooler
Cooler Temp: 5.8 °C
COC/Labels Agree: Yes
Containers Intact: Yes
Received On Ice (or not required): Yes
Preservation Correct (or not required): Yes
Custody Seals Intact and/or No Evidence of Tampering: Yes

Project Requested Certification(s):

Microbac Laboratories Inc., Sayre Division
NY-Sayre NYSDOH NY Lab ID No.: 11216
New York State Department of Health
Microbac Laboratories, Inc. - Ohio Valley
VA ID: 460187, Cert: 6338
Virginia
DEP ID: 68-01670, Cert No.: 010
State of Pennsylvania (NELAC)
NY Lab ID No.: 10861, Serial No.: 50396
New York State Department of Health



Microbac Laboratories Inc., Sayre Division

CERTIFICATE OF ANALYSIS

S5D1462

Report Comments:

In accordance with NYSDOH-ELAP and NELAC, any non-conformance of these regulations are noted directly on the laboratory report as qualifiers and/or noted in the case narrative.

Go Green: Contact Tracy Cole to set up email reporting and invoicing options.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

For any feedback concerning our services, please contact Tracy Cole listed above at Tracy.Cole@microbac.com or 570-888-0169. You may also contact Trevor Boyce President, at president@microbac.com.

Reviewed and Approved By:

A black and white image of a handwritten signature, which appears to be "Tracy Cole", written over a dark, textured background.

Tracy Cole
Department Manager
05/11/2015 10:12

M28 8-2015



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 14, 2015

FOR: Attn: Mr. James Pratt
SYNAGRO
680 Main Street, Suite 303
Watertown, CT 06795

Sample Information

Matrix: SOLID
Location Code: SYN-FC
Rush Request: Standard
P.O.#:

Custody Information

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

Date Time

08/01/15
08/04/15 16:22

Laboratory Data

SDG ID: GBJ68000
Phoenix ID: BJ68008

Project ID: CUSTOMER SLUDGE QUARTERLY ANALYSIS
Client ID: [REDACTED]

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	1.9	1.1	mg/Kg	1	08/05/15	LK	SW6010C
Beryllium	< 0.53	0.53	mg/Kg	1	08/05/15	LK	SW6010C
Calcium	3700	7.9	mg/Kg	1	08/05/15	LK	SW6010C
Cadmium	0.91	0.53	mg/Kg	1	08/05/15	LK	SW6010C
Chromium	102	0.53	mg/Kg	1	08/05/15	LK	SW6010C
Copper	460	5.3	mg/Kg	10	08/05/15	LK	SW6010C
Mercury	0.29	0.12	mg/kg	1	08/05/15	MA	SW7471B
Molybdenum	3.54	0.53	mg/Kg	1	08/05/15	LK	SW6010C
Nickel	22.8	0.53	mg/Kg	1	08/05/15	LK	SW6010C
Lead	49.2	0.53	mg/Kg	1	08/05/15	LK	SW6010C
Selenium	< 2.6	2.6	mg/Kg	1	08/05/15	LK	SW6010C
Zinc	310	5.3	mg/Kg	10	08/05/15	LK	SW6010C
Total Solids @ 104C	20.7	0.1	%	1	08/05/15	TM	SM2540B-97
Fixed Solids @ 500C	24.5	0.1	%	1	08/05/15	TM	E160.4
pH - Sludge	6.01	0.10	pH Units	1	08/04/15 19:45	DH/EG	SW9045
Volatile Solids @ 500C	75.5	0.1	%	1	08/05/15	TM	SM2540E/E160.4-9
Mercury Digestion	Completed				08/05/15	U/U	SW7471B
Sludge Ext. for PCB	Completed				08/04/15	M/M	SW3550C
Total Metals Digest	Completed				08/04/15	G/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	470	ug/Kg	1	08/05/15	AW	SW8082A
PCB-1221	ND	470	ug/Kg	1	08/05/15	AW	SW8082A
PCB-1232	ND	470	ug/Kg	1	08/05/15	AW	SW8082A
PCB-1242	ND	470	ug/Kg	1	08/05/15	AW	SW8082A
PCB-1248	ND	470	ug/Kg	1	08/05/15	AW	SW8082A
PCB-1254	ND	470	ug/Kg	1	08/05/15	AW	SW8082A
PCB-1260	ND	470	ug/Kg	1	08/05/15	AW	SW8082A

Client ID [REDACTED]

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1262	ND	470	ug/Kg	1	08/05/15	AW	SW8082A
PCB-1268	ND	470	ug/Kg	1	08/05/15	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	81		%	1	08/05/15	AW	30 - 150 %
% TCMX	64		%	1	08/05/15	AW	30 - 150 %

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

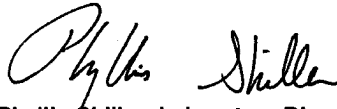
Comments:

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

August 14, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report
 July 20, 2015

FOR: Attn: Mr. James Pratt
 SYNAGRO
 680 Main Street, Suite 303
 Watertown, CT 06795

Sample Information

Matrix: SOLID
 Location Code: SYN-FC
 Rush Request: Standard
 P.O.#:

Custody Information

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

Date Time
 07/14/15
 07/14/15 15:33

Laboratory Data

SDG ID: GBJ46341
 Phoenix ID: BJ46341

Project ID: CUSTOMER SLUDGE QUARTERLY
 Client ID: [REDACTED]

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	1.6	1.0	mg/Kg	1	07/16/15	EK	SW6010C
Beryllium	< 0.50	0.50	mg/Kg	1	07/16/15	EK	SW6010C
Calcium	18800	74	mg/Kg	10	07/16/15	EK	SW6010C
Cadmium	0.61	0.50	mg/Kg	1	07/16/15	EK	SW6010C
Chromium	12.6	0.50	mg/Kg	1	07/16/15	EK	SW6010C
Copper	559	5.0	mg/Kg	10	07/16/15	EK	SW6010C
Mercury	0.51	0.12	mg/kg	1	07/15/15	RS	SW7471B
Molybdenum	5.25	0.50	mg/Kg	1	07/16/15	EK	SW6010C
Nickel	11.0	0.50	mg/Kg	1	07/16/15	EK	SW6010C
Lead	22.4	0.50	mg/Kg	1	07/16/15	EK	SW6010C
Selenium	7.6	2.5	mg/Kg	1	07/16/15	EK	SW6010C
Zinc	651	5.0	mg/Kg	10	07/16/15	EK	SW6010C
Total Solids @ 104C	19.1	0.1	%	1	07/16/15	TM	SM2540B-97
Fixed Solids @ 500C	14.6	0.1	%	1	07/16/15	TM	E160.4
pH - Sludge	5.89	0.10	pH Units	1	07/14/15 20:10	DH/EG	SW9045
Volatile Solids @ 500C	85.4	0.1	%	1	07/16/15	TM	SM2540E/E160.4-9
Mercury Digestion	Completed				07/15/15	I/I	SW7471B
Sludge Ext. for PCB	Completed				07/15/15	M/M	SW3550C
Total Metals Digest	Completed				07/14/15	G/G	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	490	ug/Kg	1	07/16/15	AW	SW8082A
PCB-1221	ND	490	ug/Kg	1	07/16/15	AW	SW8082A
PCB-1232	ND	490	ug/Kg	1	07/16/15	AW	SW8082A
PCB-1242	ND	490	ug/Kg	1	07/16/15	AW	SW8082A
PCB-1248	ND	490	ug/Kg	1	07/16/15	AW	SW8082A
PCB-1254	ND	490	ug/Kg	1	07/16/15	AW	SW8082A
PCB-1260	ND	490	ug/Kg	1	07/16/15	AW	SW8082A

Client ID: XXXXXXXXXX

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1262	ND	490	ug/Kg	1	07/16/15	AW	SW8082A
PCB-1268	ND	490	ug/Kg	1	07/16/15	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	103		%	1	07/16/15	AW	30 - 150 %
% TCMX	47		%	1	07/16/15	AW	30 - 150 %

B = Present in blank, no bias suspected.

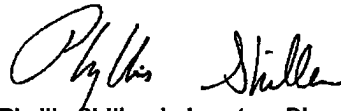
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 20, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Thursday, August 06, 2015

Attn: Mr. Tom Deller
Veolia Water, Naugatuck Plant
500 Cherry Street
Naugatuck, CT 06770

Project ID: NAUGATUCK
Sample ID#s: BJ66472

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

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

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



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

Analysis Report
 August 06, 2015

FOR: Attn: Mr. Tom Deller
 Veolia Water, Naugatuck Plant
 500 Cherry Street
 Naugatuck, CT 06770

Sample Information

Matrix: SLUDGE
 Location Code: VEOLIANA
 Rush Request: Standard
 P.O.#: 3RD QTR [REDACTED]

Custody Information

Collected by: TD
 Received by: LK
 Analyzed by: see "By" below

Date Time
 07/30/15
 07/31/15 14:39

Laboratory Data

SDG ID: GBJ66472
 Phoenix ID: BJ66472

Project ID: NAUGATUCK
 Client ID: SLUDGE

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.9	2.0	mg/Kg	1	08/02/15	EK	SW6010C
Beryllium	< 1.0	1.0	mg/Kg	1	08/02/15	EK	SW6010C
Cadmium	< 1.0	1.0	mg/Kg	1	08/02/15	EK	SW6010C
Chromium	23.3	1.0	mg/Kg	1	08/02/15	EK	SW6010C
Copper	470	10	mg/Kg	10	08/02/15	EK	SW6010C
Mercury	1.12	0.25	mg/kg	1	08/05/15	MA	SW7471B
Nickel	16.9	1.0	mg/Kg	1	08/02/15	EK	SW6010C
Lead	31.9	1.0	mg/Kg	1	08/02/15	EK	SW6010C
Selenium	5.8	5.0	mg/Kg	1	08/02/15	LK	SW6010C
Zinc	505	10	mg/Kg	10	08/02/15	EK	SW6010C
Percent Solid	10.1	1	%				SW846-%Solid
Total Solids @ 104C	10.1	0.1	%	1	08/03/15	TM/KH	SM2540B-97
Fixed Solids @ 500C	25.0	0.1	%	1	08/03/15	TM/KH	E160.4
Nitrite as N	< 0.99	0.99	mg/kg	10	07/31/15	BS/EG	SW9056A
Nitrate as N	5.04	5.0	mg/kg	10	07/31/15	BS/EG	SW9056A
Organic Nitrogen	59100	870	mg/Kg	1	08/04/15	WHM	E350.1/E350.2
pH - Sludge	7.42	0.10	pH Units	1	07/31/15 20:45	DH/KDB	SW9045
Nitrogen Tot Kjeldahl	59400	4300	mg/Kg	1	08/04/15	WHM	E351.1
Volatile Solids @ 500C	75.0	0.1	%	1	08/03/15	TM/KH	SM2540E/E160.4-9
Mercury Digestion	Completed				08/05/15	U/U	SW7471B
Sludge Ext. for PCB	Completed				08/03/15	M/M	SW3550C
Total Metals Digest	Completed				07/31/15	G/G	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	940	ug/Kg	1	08/04/15	AW	SW8082A
PCB-1221	ND	940	ug/Kg	1	08/04/15	AW	SW8082A
PCB-1232	ND	940	ug/Kg	1	08/04/15	AW	SW8082A
PCB-1242	ND	940	ug/Kg	1	08/04/15	AW	SW8082A

Project ID: NAUGATUCK
Client ID: SLUDGE

Phoenix I.D.: BJ66472

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1248	ND	940	ug/Kg	1	08/04/15	AW	SW8082A
PCB-1254	ND	940	ug/Kg	1	08/04/15	AW	SW8082A
PCB-1260	ND	940	ug/Kg	1	08/04/15	AW	SW8082A
PCB-1262	ND	940	ug/Kg	1	08/04/15	AW	SW8082A
PCB-1268	ND	940	ug/Kg	1	08/04/15	AW	SW8082A
QA/QC Surrogates							
% DCBP	125		%	1	08/04/15	AW	30 - 150 %
% TCMX	101		%	1	08/04/15	AW	30 - 150 %

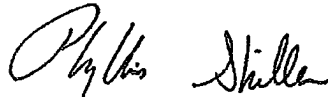
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

August 06, 2015

Reviewed and Released by: Deb Lawrie, Project Manager



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

QA/QC Report

August 06, 2015

QA/QC Data

SDG I.D.: GBJ66472

Parameter	Blk Blank	RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 315660 (mg/kg), QC Sample No: BJ65744 (BJ66472)													
ICP Metals - Soil													
Arsenic	BRL	0.67	5.7	7.37	25.6	92.6	91.1	1.6	89.2	91.7	2.8	75 - 125	30
Beryllium	BRL	0.27	0.75	0.87	NC	95.2	94.9	0.3	94.4	97.1	2.8	75 - 125	30
Cadmium	BRL	0.33	<0.37	<0.38	NC	92.9	94.6	1.8	86.3	89.0	3.1	75 - 125	30
Chromium	BRL	0.33	24.7	28.5	14.3	99.9	99.8	0.1	100	103	3.0	75 - 125	30
Copper	BRL	0.33	18.3	21.9	17.9	100	97.8	2.2	106	109	2.8	75 - 125	30
Lead	BRL	0.33	13.5	17.1	23.5	90.4	89.1	1.4	88.6	92.2	4.0	75 - 125	30
Nickel	BRL	0.33	12.4	14.6	16.3	96.9	98.3	1.4	92.1	95.4	3.5	75 - 125	30
Selenium	BRL	1.3	<1.5	<1.5	NC	77.9	78.8	1.1	81.7	84.2	3.0	75 - 125	30
Zinc	BRL	0.33	38.2	47.6	21.9	92.0	92.5	0.5	99.1	102	2.9	75 - 125	30

QA/QC Batch 316097 (mg/kg), QC Sample No: BJ66462 (BJ66472)

Mercury - Soil	BRL	0.06	0.18	0.30	50.0	95.4	88.1	8.0		115		70 - 130	30	r
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Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.

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



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

QA/QC Report

August 06, 2015

QA/QC Data

SDG I.D.: GBJ66472

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 315720 (PH), QC Sample No: BJ66295 (BJ66472)													
pH - Soil			8.12	7.97	1.90	99.2						85 - 115	20
QA/QC Batch 315789 (mg/L), QC Sample No: BJ66393 (BJ66472)													
Nitrate as Nitrogen	BRL	0.05	0.11	0.10	NC	95.5			101			85 - 115	20
Nitrite as Nitrogen	BRL	0.01	<0.01	<0.01	NC	104			103			85 - 115	20
QA/QC Batch 315769 (), QC Sample No: BJ66472 (BJ66472)													
Total Solids	BRL	0.1	10.1	10.1	0	100						85 - 115	30
QA/QC Batch 315820 (mg/L), QC Sample No: BJ66813 (BJ66472)													
Nitrogen Tot Kjeldahl	BRL	0.10	1.79	1.79	0	97.9			88.5			85 - 115	20



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

QA/QC Report

August 06, 2015

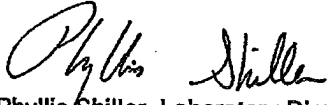
QA/QC Data

SDG I.D.: GBJ66472

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
QA/QC Batch 315617 (ug/Kg), QC Sample No: BJ64896 (BJ66472)										
<u>Polychlorinated Biphenyls - Sludge</u>										
PCB-1016	ND	13	96	83	14.5				40 - 140	30
PCB-1221	ND	13							40 - 140	30
PCB-1232	ND	13							40 - 140	30
PCB-1242	ND	13							40 - 140	30
PCB-1248	ND	13							40 - 140	30
PCB-1254	ND	13							40 - 140	30
PCB-1260	ND	13	111	105	5.6				40 - 140	30
PCB-1262	ND	13							40 - 140	30
PCB-1268	ND	13							40 - 140	30
% DCBP (Surrogate Rec)	125	%	126	121	4.0				30 - 150	30
% TCMX (Surrogate Rec)	76	%	89	78	13.2				30 - 150	30

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference


 Phyllis Shiller, Laboratory Director
 August 06, 2015

Sample Criteria Exceedences Report

Criteria: None

State: CT

GBJ66472 - VEOLIANA

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL	Analysis Units
--------	-------	-----------------	----------	--------	----	----------	----	----------------

*** No Data to Display ***

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

Cooler: Yes No
 Coolant: IPK ICE

Temp 3 °C Pg of

Data Delivery:

Fax # _____
 Email: tom.deller@veolia.com

Project P.O.: 3rd Qtr

This section MUST be completed with Bottle Quantities.

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
 Client Services (860) 645-8726

Project: Naugatuck
 Report to: Tom Deller
 Invoice to: 3rd Qtr 2015
 Phone #: 203-723-1433 ext 2004
 Fax #: 203-723-8539

Customer: Veolia Water, NA
 Address: 500 Cherry St Ext
 Naugatuck, Ct 06770
 Attn: Tom Deller

Client Sample - Information - Identification
 Sampler's Signature: *[Signature]* Date: 7-31-15

Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe
 OIL=Oil B=Bulk L=Liquid

Customer Sample Identification: Sludge Date Sampled: 7/30/15 Time Sampled: N/A

Analysis Request

Asenic, Beryllium, Cadmium	
Chromium, Copper, Lead, Mercury	
Nickel, pH, PCBs, Selenium	
Trihal Solids, Total Solids	
Volatiles Solids, Zinc	
NO2, NO3, TKN, TON	
Soil VOA Vials (Methanol / H2O)	X
GL Soil Container (9) oz	
40 ml VOA Vial (X) As Is (HCl)	
GL Amber 1000ml (X) As Is (HCl)	
PL As Is (250ml) (X) As Is (HCl)	
PL H2SO4 (X) 1250ml (500ml (X) 1000ml)	
PL H2SO4 (X) 1250ml (500ml (X) 1000ml)	
PL NaOH 250ml	
Bacteria Bottle	

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	RI	GI	MA	Data Format
105172	Sludge	SL	7/30/15	N/A	X	X	X	Excel
								PDF
								GIS/Key
								EQ/IS
								Other
								Data Package
								Tier II Checklist
								Full Data Package*
								Phoenix Std Report
								Other

Refined/Released by: *[Signature]* Accepted by: *[Signature]*
 Date: 2015/07/31 Time: 1:06
 Date: 7/31/15 Time: 14:30

Comments, Special Requirements or Regulations:
 Turnaround:
 1 Day*
 2 Days*
 3 Days*
 Standard
 Other
 * SURCHARGE APPLIES

State where samples were collected: _____
 * SURCHARGE APPLIES

3rd Qtr 2015 Rhinebeck

M72

[Redacted]

cake



2nd Qtr 2015

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

Analysis Report

April 17, 2015

FOR: Attn: Mr. James Pratt
SYNAGRO
680 Main Street, Suite 303
Watertown, CT 06795

<u>Sample Information</u>	<u>Custody Information</u>	<u>Date</u>	<u>Time</u>
Matrix: SLUDGE	Collected by:	04/07/15	0:00
Location Code: SYN-FC	Received by: LPB	04/10/15	18:05
Rush Request: Standard	Analyzed by: see "By" below		
P.O.#:			

Laboratory Data

SDG ID: GBJ01262
Phoenix ID: BJ01274

Project ID: CUSTOMER SLUDGE QTRLY ALAYSIS
Client ID: [Redacted]

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.5	1.2	mg/Kg	1	04/12/15	LK	SW6010C
Beryllium	< 0.60	0.60	mg/Kg	1	04/12/15	LK	SW6010C
Calcium	16600	8.9	mg/Kg	1	04/12/15	LK	SW6010C
Cadmium	< 0.60	0.60	mg/Kg	1	04/12/15	LK	SW6010C
Chromium	49.6	0.60	mg/Kg	1	04/12/15	LK	SW6010C
Copper	335	6.0	mg/Kg	10	04/12/15	LK	SW6010C
Mercury	0.39	0.13	mg/kg	1	04/14/15	RS	SW7471B
Molybdenum	2.97	0.60	mg/Kg	1	04/12/15	LK	SW6010C
Nickel	13.0	0.60	mg/Kg	1	04/12/15	LK	SW6010C
Lead	44.7	0.60	mg/Kg	1	04/12/15	LK	SW6010C
Selenium	< 3.0	3.0	mg/Kg	1	04/12/15	LK	SW6010C
Zinc	381	6.0	mg/Kg	10	04/12/15	LK	SW6010C
Total Solids @ 104C	17.8	0.1	%	1	04/14/15	KH	SM2540B-97
Fixed Solids @ 500C	22.6	0.1	%	1	04/14/15	KH	E160.4
Volatile Solids @ 500C	77.4	0.1	%	1	04/14/15	KH	SM2540E/E160.4-9
Mercury Digestion	Completed				04/14/15	I/I	SW7471B
Sludge Ext. for PCB	Completed				04/14/15	M/M	SW3550C
Total Metals Digest	Completed				04/10/15	CB/AG/LK	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	530	ug/Kg	1	04/15/15	AW	SW8082A
PCB-1221	ND	530	ug/Kg	1	04/15/15	AW	SW8082A
PCB-1232	ND	530	ug/Kg	1	04/15/15	AW	SW8082A
PCB-1242	ND	530	ug/Kg	1	04/15/15	AW	SW8082A
PCB-1248	ND	530	ug/Kg	1	04/15/15	AW	SW8082A
PCB-1254	ND	530	ug/Kg	1	04/15/15	AW	SW8082A
PCB-1260	ND	530	ug/Kg	1	04/15/15	AW	SW8082A
PCB-1262	ND	530	ug/Kg	1	04/15/15	AW	SW8082A

Client ID: [REDACTED]

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1268	ND	530	ug/Kg	1	04/15/15	AW	SW8082A
QA/QC Surrogates							
% DCBP	131		%	1	04/15/15	AW	30 - 150 %
% TCMX	98		%	1	04/15/15	AW	30 - 150 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

April 17, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Sludge



Thursday, January 15, 2015

Attn: Mr. Bill Darling
Severn Trent Environmental Svcs

Project ID: [REDACTED] WWTP
Sample ID#: BH60056

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

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

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in cursive script that reads "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



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



SDG Comments

January 15, 2015

SDG I.D.: GBH60056

Please be advised that the NY unrestricted soil criteria for chromium is based on hexavalent chromium and trivalent chromium.

PHOENIX LABORATORIES, INC.

M79



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 14, 2015

FOR: Attn: Mr. James Pratt
SYNAGRO
680 Main Street, Suite 303
Watertown, CT 06795

Sample Information

Matrix: SOLID
Location Code: SYN-FC
Rush Request: Standard
P.O.#:

Custody Information

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

Date Time

08/01/15
08/04/15 16:22

Laboratory Data

SDG ID: GBJ68000
Phoenix ID: BJ68019

Project ID: CUSTOMER SLUDGE QUARTERLY ANALYSIS
Client ID:

Table with 8 columns: Parameter, Result, RL/PQL, Units, Dilution, Date/Time, By, Reference. Lists various chemical parameters like Arsenic, Beryllium, Calcium, etc., with their respective results and units.

Polychlorinated Biphenyls

Table with 8 columns: Parameter, Result, RL/PQL, Units, Dilution, Date/Time, By, Reference. Lists PCB-1016 through PCB-1260 with results (ND) and units (ug/Kg).

Client ID [REDACTED]

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1262	ND	750	ug/Kg	1	08/06/15	AW	SW8082A
PCB-1268	ND	750	ug/Kg	1	08/06/15	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	118		%	1	08/06/15	AW	30 - 150 %
% TCMX	96		%	1	08/06/15	AW	30 - 150 %

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

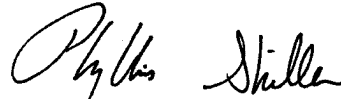
Comments:

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

August 14, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

MDO
~~SYNAGRO~~ (Coke)
~~2 MDO's~~ 4-2015



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

Analysis Report
 April 21, 2015

FOR: Attn: Mr. James Pratt
 SYNAGRO
 680 Main Street, Suite 303
 Watertown, CT 06795

Sample Information

Matrix: SLUDGE
 Location Code: SYN-FC
 Rush Request: Standard
 P.O.#:

Custody Information

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

Date Time
 04/10/15 0:00
 04/14/15 15:12

Laboratory Data

SDG ID: GBJ02012
 Phoenix ID: BJ02015

Project ID: CUSTOMER SLUDGE QUARTERLY ANALYSIS
 Client ID: [REDACTED]

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.2	0.9	mg/Kg	1	04/15/15	LK	SW6010C
Beryllium	< 0.43	0.43	mg/Kg	1	04/15/15	LK	SW6010C
Calcium	4390	6.5	mg/Kg	1	04/15/15	LK	SW6010C
Cadmium	0.50	0.43	mg/Kg	1	04/15/15	LK	SW6010C
Chromium	110	0.43	mg/Kg	1	04/15/15	LK	SW6010C
Copper	358	4.3	mg/Kg	10	04/15/15	LK	SW6010C
Mercury	0.20	0.13	mg/kg	1	04/15/15	RS	SW7471B
Molybdenum	3.25	0.43	mg/Kg	1	04/15/15	LK	SW6010C
Nickel	20.2	0.43	mg/Kg	1	04/15/15	LK	SW6010C
Lead	37.6	0.43	mg/Kg	1	04/15/15	LK	SW6010C
Selenium	< 2.2	2.2	mg/Kg	1	04/15/15	LK	SW6010C
Zinc	201	4.3	mg/Kg	10	04/15/15	LK	SW6010C
Percent Solid	20.0	1	%				SW846-%Solid
Total Solids @ 104C	20.0	0.1	%	1	04/16/15	KH	SM2540B-97
Fixed Solids @ 500C	25.2	0.1	%	1	04/16/15	KH	E160.4
Volatile Solids @ 500C	74.8	0.1	%	1	04/16/15	KH	SM2540E/E160.4-9
Mercury Digestion	Completed				04/15/15	I/I	SW7471B
Sludge Ext. for PCB	Completed				04/16/15	M/M	SW3550C
Total Metals Digest	Completed				04/14/15	CB/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	460	ug/Kg	1	04/18/15	AW	SW8082A
PCB-1221	ND	460	ug/Kg	1	04/18/15	AW	SW8082A
PCB-1232	ND	460	ug/Kg	1	04/18/15	AW	SW8082A
PCB-1242	ND	460	ug/Kg	1	04/18/15	AW	SW8082A
PCB-1248	ND	460	ug/Kg	1	04/18/15	AW	SW8082A
PCB-1254	ND	460	ug/Kg	1	04/18/15	AW	SW8082A
PCB-1260	ND	460	ug/Kg	1	04/18/15	AW	SW8082A

Client ID: [REDACTED]

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1262	ND	460	ug/Kg	1	04/18/15	AW	SW8082A
PCB-1268	ND	460	ug/Kg	1	04/18/15	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	70		%	1	04/18/15	AW	30 - 150 %
% TCMX	87		%	1	04/18/15	AW	30 - 150 %


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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

April 21, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

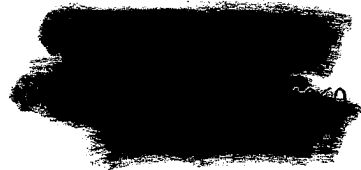


M80
~~JWD 6/1/2015~~ 5/2015

61 Louisa Viens Drive
Dayville, CT 06241
Fax: 860-774-2689
Phone: 860-774-6814
Toll-Free: 800-334-0103

ANALYTICAL DATA REPORT

prepared for:



Report Number: E505B75
Project: Sludge

Received Date: 05/13/2015
Report Date: 05/27/2015

David Dickinson
Technical Director



CT DPH #PH-0465
NY ELAP #11549

EPA #CT00008
PA DEP #68-04413

MA DEP #M-CT008
RI DOH #LAC00346

ME DHHS #CT0050
VT DOH #VT11549

NH ELAP #2020

101-000000458839



81 Louisa Vens Drive
Dayville, CT 06241
Fax: 860-774-2689
Phone: 860-774-8814
Toll-Free: 800-334-0103

Report No: E505B75

Client: [REDACTED]

Project: Sludge

CASE NARRATIVE / METHOD CONFORMANCE SUMMARY

The results presented in this report relate only to the samples received.

This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included, along with a copy of the chain of custody and any subcontracted analyses reports, if applicable, for the sample(s) in this report. Subcontractor results are identified by 'SUB' next to the analysis.

Microbac Laboratories, Inc. received one sample from [REDACTED] on 05/13/2015. The sample was analyzed for the following list of analyses in accordance with MA DEP regulations unless otherwise indicated:

Ignitability by SW-846 1010 in SW
1010

PCB's by 8082A in SW
8082A[3550C]

Phosphorus by 365.1M (soil modification)
UNKWN[365.4]

Reactive Sulfide by SW-846 7.3.4.2
UNKWN

Solids: Total Percent (%)
CLPOLM01

Sulfur by ASTM D 4239
ASTM D 4239

TCLP Metals by SW-846
6010C[3010A], 7470A[245.1]

TCLP Semivolatiles by 8270D
8270D[3510C]

Trace Metals by 6010C in SW
6010C[3050B]

Mercury by 7471B in SW
7471B[7471B]

Paint Filter Liquids Test by 9095 in Solid Waste
9095

Reactive Cyanide by SW-846 7.3.3.2
UNKWN

Solids: Total Fixed (TFS) by SM2540G in SW
SM2540G

Solids: Total Volatile (TFS) by SM2540G in SW
SM2540G

TCLP Herbicides by 8151A
8151A[8151A]

TCLP Pesticides by 8081B
8081B[3510C]

TCLP Volatiles by 8260C
8260C[1312]

pH (Corrosivity) by 9045 in Solid Waste
9045

Non-Conformances:

Work Order:

None

Sample:

None

Analysis:

Sample 1, Sludge Cake, Herbicides by SW-846 8151A in GW/SW, TCLP: One surrogate spike was elevated outside quality control limits for the sample due to matrix interference.



61 Louisa Viens Drive
Dayville, CT 06241
Fax: 860-774-2889
Phone: 860-774-6814
Toll-Free: 800-334-0103

Report No: E505B75

Client: [REDACTED]

Project: Sludge

CASE NARRATIVE / METHOD CONFORMANCE SUMMARY

The results presented in this report relate only to the samples received.

Non-Conformances:

Analysis:

Sample 1, Sludge Cake, Herbicides by SW-846 8151A in GW/SW, TCLP: Two compound recoveries for the matrix spike were outside of the established control limits due to matrix interference. The associated laboratory control sample recoveries were within the established quality control limits.

Sample 1, Sludge Cake, PCB's by 8082A in SW: One surrogate spike was outside quality control limits for the sample due to matrix interference.

Sample 1, Sludge Cake, Phosphorus as P by 365.1M (soil modification): The sample concentration was greater than four times the spike concentration for the sample, therefore the matrix spike recoveries were not evaluated. The associated LCS recoveries were within the established quality control limits.

Sample 1, Sludge Cake, Semivolatiles by 8270D in SW, TCLP: Hexachlorobenzene and 3+4 methylphenols recovery for the matrix spike was outside the established quality control limits. The associated laboratory control sample recoveries were within the established quality control limits.

Microbac Laboratories, Inc.
Analytical Data Report

Report No: B505B75
Date Received: 05/13/2015 17:24

Customer: XXXXXXXXXX
Project: Sludge

Parameter	Result	DL	Units	Completed	By	Dilution
(1) Sludge Cake						
Date Collected: 05/13/2015 08:40		Matrix: Solid				
Ignitability by SW846 1010	>160		°F	05/18/2015 16:15	JSM	
Paint Filter Liquids Test by SW-846 9095	Pass		Pass/Fail	05/14/2015 16:37	ST	
Phosphorus as P by 365.1M (soil modification)	8300	220	mg/kg	05/19/2015 09:25	JJT	24
Solids, Total Fixed (TFS) by SM2540G in SW	14		%	05/14/2015 16:30	JSM	
Solids, Total Percent (%)	25		%	05/14/2015 16:30	JSM	
Solids, Total Volatile (TVS) by SM2540G in SW	86		%	05/14/2015 16:30	JSM	
pH in Soil by 9045	5.9		pH Units	05/18/2015 09:21	HEB	
Reactive Cyanide by SW-846 7.3.3.2, Reactive	ND	0.43	mg/kg	05/21/2015	SUB	
Reactive Sulfide by SW-846 7.3.4.2, Reactive	ND	0.43	mg/kg	05/21/2015	SUB	
Sulfur by ASTM D 4239	0.82	0.10	%	05/18/2015	SUB	
Metals by ICP by SW-846 6010C, TCLP						
Arsenic	ND	0.10	mg/L	05/20/2015 15:18	NJB	
Barium	ND	0.25	mg/L	05/20/2015 15:18	NJB	
Cadmium	ND	0.010	mg/L	05/20/2015 15:18	NJB	
Chromium	ND	0.024	mg/L	05/20/2015 15:18	NJB	
Lead	0.058	0.040	mg/L	05/20/2015 15:18	NJB	
Selenium	ND	0.10	mg/L	05/20/2015 15:18	NJB	
Silver	ND	0.020	mg/L	05/20/2015 15:18	NJB	
Trace Metals by 6010C						
Arsenic	ND	1.0	mg/kg	05/20/2015 15:15	NJB	
Cadmium	1.2	0.40	mg/kg	05/15/2015 16:40	NJB	
Chromium	7.6	0.40	mg/kg	05/15/2015 16:40	NJB	
Lead	16	0.60	mg/kg	05/15/2015 16:40	NJB	
Aluminum	2500	10	mg/kg	05/15/2015 16:40	NJB	
Beryllium	ND	0.20	mg/kg	05/15/2015 16:40	NJB	
Copper	250	0.40	mg/kg	05/15/2015 16:40	NJB	
Nickel	4.4	1.0	mg/kg	05/15/2015 16:40	NJB	
Zinc	580	1.0	mg/kg	05/15/2015 16:40	NJB	
Mercury by SW-846 7470A in GW, TCLP	ND	0.00020	mg/L	05/15/2015 14:03	KDT	
Mercury by SW-846 7471B in SW	ND	0.13	mg/kg	05/15/2015 14:03	KDT	

Microbac Laboratories, Inc.
Analytical Data Report

Report No: E505B75
Sample No: 1
Sample Description: Sludge Cake

Customer: XXXXXXXXXX
Project: Sludge

Date Collected: 05/13/2015 08:40
Date Received: 05/13/2015 17:24
Date Extracted: 05/18/2015 15:45 By: SJD
Date Analyzed: 05/20/2015 12:03 By: AMH
Preparation Method: 1311
Analytical Method: 8260C, TCLP

Matrix: Solid
Percent Moisture: 75
Sample Weight/Volume:
Dilution Factor: 5
Extract Volume:
Lab Data File: Q42450.D
QC Batch#: 128545

CAS No.	Parameter	Result	DL	Units
71-43-2	Benzene	ND	25	ug/L
78-93-3	2-Butanone (MEK)	300	50	ug/L
56-23-5	Carbon tetrachloride	ND	25	ug/L
108-90-7	Chlorobenzene	ND	25	ug/L
67-66-3	Chloroform	ND	25	ug/L
107-06-2	1,2-Dichloroethane	ND	25	ug/L
75-35-4	1,1-Dichloroethene	ND	25	ug/L
127-18-4	Tetrachloroethene (PCE)	ND	25	ug/L
79-01-6	Trichloroethene (TCE)	ND	25	ug/L
75-01-4	Vinyl chloride	ND	25	ug/L

Sample QC

Surrogate	Recovery	QC Limits
1,2-Dichloroethane-d4	97%	80%-120%
Bromofluorobenzene	100%	80%-120%
Toluene-d8	99%	80%-120%

Microbac Laboratories, Inc.
Analytical Data Report

Report No: E505B75
Sample No: 1
Sample Description: Sludge Cake

Customer: XXXXXXXXXX
Project: Sludge

Date Collected: 05/13/2015 08:40
Date Received: 05/13/2015 17:24
Date Extracted: 05/15/2015 09:55 By: SJD
Date Analyzed: 05/18/2015 16:35 By: MRB
Preparation Method: 3510C
Analytical Method: 8081B, TCLP

Matrix: Solid
Percent Moisture: 75
Sample Weight/Volume: 100
Dilution Factor: 1
Extract Volume: 2
Lab Data File: Z051827.D
QC Batch#: 128502

CAS No.	Parameter	Result	DL	Units
57-74-9	Chlordane	ND	1.0	ug/L
72-20-8	Endrin	ND	0.20	ug/L
76-44-8	Heptachlor	ND	0.20	ug/L
1024-57-3	Heptachlor epoxide	ND	0.20	ug/L
58-89-9	Lindane	ND	0.20	ug/L
72-43-5	Methoxychlor	ND	0.20	ug/L
8001-35-2	Toxaphene	ND	10	ug/L

Sample QC

Surrogate	Recovery	QC Limits
Decachlorobiphenyl	52%	25%-125%
Tetrachloro-m-xylene	26%	25%-125%

Microbac Laboratories, Inc.
Analytical Data Report

Report No: B505B75
Sample No: 1
Sample Description: Sludge Cake

Customer: XXXXXXXXXX
Project: Sludge

Date Collected: 05/13/2015 08:40
Date Received: 05/13/2015 17:24
Date Extracted: 05/19/2015 11:30 By: SJD
Date Analyzed: 05/20/2015 12:29 By: NSO
Preparation Method: 3510C
Analytical Method: 8270D, TCLP

Matrix: Solid
Percent Moisture: 75
Sample Weight/Volume: 100
Dilution Factor: 1
Extract Volume: 1
Lab Data File: L45021.D
QC Batch#: 128538

CAS No.	Parameter	Result	DL	Units
106-46-7	1,4-Dichlorobenzene	ND	50	ug/L
95-95-4	2,4,5-Trichlorophenol	ND	50	ug/L
88-06-2	2,4,6-Trichlorophenol	ND	50	ug/L
121-14-2	2,4-Dinitrotoluene	ND	50	ug/L
95-48-7	2-Methylphenol	ND	50	ug/L
108-39-4	3- & 4-Methylphenols	ND	100	ug/L
118-74-1	Hexachlorobenzene	ND	50	ug/L
87-68-3	Hexachlorobutadiene	ND	50	ug/L
67-72-1	Hexachloroethane	ND	50	ug/L
98-95-3	Nitrobenzene	ND	50	ug/L
87-86-5	Pentachlorophenol	ND	50	ug/L
110-86-1	Pyridine	ND	50	ug/L

Sample QC

Surrogate	Recovery	QC Limits
2,4,6-Tribromophenol	79%	10%-137%
2-Fluorobiphenyl	60%	10%-115%
2-Fluorophenol	41%	10%-61%
4-Terphenyl-d14	68%	16%-141%
Nitrobenzene-d5	60%	10%-109%
Phenol-d6	32%	10%-39%

Microbac Laboratories, Inc.
Analytical Data Report

Report No: E505B75
Sample No: 1
Sample Description: Sludge Cake

Customer: [REDACTED]
Project: Sludge

Date Collected: 05/13/2015 08:40
Date Received: 05/13/2015 17:24
Date Extracted: 05/18/2015 09:35 By: SJD
Date Analyzed: 05/20/2015 14:00 By: MRB
Preparation Method: 8151A
Analytical Method: 8151A, TCLP

Matrix: Solid
Percent Moisture: 75
Sample Weight/Volume: 100
Dilution Factor: 1
Extract Volume: 5
Lab Data File: Z052006.D
QC Batch#: 128554

CAS No.	Parameter	Result	DL	Units
94-75-7	2,4-D	ND	10	ug/L
93-72-1	2,4,5-TP (Silvex)	ND	10	ug/L

Sample QC

Surrogate	Recovery	QC Limits
DCAA	148%	25%-125%

Microbac Laboratories, Inc.
Analytical Data Report

Report No: B505B75
Sample No: 1
Sample Description: Sludge Cake

Customer: XXXXXXXXXX
Project: Sludge

Date Collected: 05/13/2015 08:40
Date Received: 05/13/2015 17:24
Date Extracted: 05/18/2015 12:05 By: SJD
Date Analyzed: 05/19/2015 17:47 By: MRB
Preparation Method: 3550C
Analytical Method: 8082A

Matrix: Solid
Percent Moisture: 75
Sample Weight/Volume: 5.10
Dilution Factor: 1
Extract Volume: 2
Lab Data File: Z051925.D
QC Batch#: 128541

CAS No.	Parameter	Result	DL	Units
12674-11-2	Aroclor 1016	ND	310	ug/kg
11104-28-2	Aroclor 1221	ND	310	ug/kg
11141-16-5	Aroclor 1232	ND	310	ug/kg
53469-21-9	Aroclor 1242	ND	310	ug/kg
12672-29-6	Aroclor 1248	ND	310	ug/kg
11097-69-1	Aroclor 1254	ND	310	ug/kg
11096-82-5	Aroclor 1260	ND	310	ug/kg

Sample QC

Surrogate	Recovery	QC Limits
Decachlorobiphenyl	25%	25%-125%
Tetrachloro-m-xylene	23%	25%-125%

Sample Analysis

Sample Description	Source	Taken/Time	Received		
50291 E505B75-1	Microbac Laboratories, Inc	5/13/15	5/15/15		
Parameter	Results	MDL	Method	Analyzed/Time	Tech
Sulfur, %	0.82	0.10	ASTM D4239	05/18/15	sjr



REPORT OF ANALYTICAL RESULTS

NETLAB Case Number B0515-09

Prepared for:

Premier Laboratory
61 Louisa Viens Drive
Dayville, CT 06241

Report Date: May 22, 2015

A handwritten signature in black ink, appearing to read "B. A. O'Neil", written over a horizontal line.

Director
New England Testing Laboratory, Inc.
Lab # RI010

NEW ENGLAND TESTING LABORATORY, INC.
1254 Douglas Avenue, North Providence, RI 02904
(401) 353-3420

SAMPLES SUBMITTED and REQUEST FOR ANALYSIS:

The samples listed in Table I were submitted to New England Testing Laboratory on May 15, 2015. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the sample(s) provided to us by the client which are indicated on the custody record. The case number for this sample submission B0515-09.

Custody records are included in this report.

Project: E505B75

TABLE I, Samples Submitted

Sample ID	Date Sampled	Matrix	Analysis Requested
E0505B75-1	5/13/2015	Sludge	Table II

TABLE II, Analysis and Methods

ANALYSIS	PREPARATION METHOD	DETERMINATIVE METHOD
Reactive Cyanide	NA	SW-846 Sec. 7.3
Reactive Sulfide	NA	SW-846 Sec. 7.3

These methods are documented in:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd ed., USEPA.



New England Testing Laboratory, Inc.

CASE NARRATIVE:

The samples were all appropriately cooled and preserved upon receipt. The samples were received in the appropriate containers. The chain of custody was adequately completed and corresponded to the samples submitted.

Case No. B0515-09

E0505B75-1

Sample ID	Result, mg/kg	Reporting Limit	Date Analyzed
Reactive Cyanide	ND	0.43	5/21/15
Reactive Sulfide	ND	0.43	5/21/15

ND = Not Detected



MICROBAC
 Microbac Laboratory, Inc.
 61 Louisa Viens Drive
 Dayville, CT 06241

Chain of Custody

458899-120

For: New England Testing Lab
 1254 Douglas Avenue
 North Providence, RI 02904

BOS-09

Report to Microbac Laboratory, Inc. 61 Louisa Viens Drive Dayville, CT 06241 Email Reports and Invoices to datareporting@premierlaboratory.com		Billing Information Microbac Laboratory, Inc. 61 Louisa Viens Drive Dayville, CT 06241				Project Information Project: E505B75 State Certification: MA DEP Project Manager: EMail: nicolea@premierlaboratory.com Phone: 860-774-6814 Fax: 860-774-2689 Due Date: Standard TAT			
Sample Identification	Date Collected	Time Collected	Sample Type	Sample Matrix	Cont. Type	Cont. Qty	Preservative	Analysis	
	5/13/2015	8:40	G	S	A	1	None		
E505B75-1								Reactive Cyanide by SW-846 7.3.3.2 Reactive Sulfide by SW-846 7.3.4.2	

Sampler:	Custody Transfer	Date	Time
Received:	<i>[Signature]</i>	5-15-15	08:00
Relinquished:	<i>[Signature]</i>	5-15-15	13:14
Received:	<i>[Signature]</i>	5-15-15	13:14
Relinquished:			

Comments:
 Notify Premier Laboratory of any MCL exceedances with 24 hours of obtaining valid data.
 Conditions Upon Receipt (Check One):
 Cooled Ambient 2 °C Upon Receipt at LAB



Sterling Analytical, Inc.

15 Agawam Avenue
West Springfield, MA 01089
Phone (413) 214-6541 Fax (413) 214-8842
email-madhu@sterlinganalytical.com

Visit our website: www.sterlinganalytical.com

Mass Certification - MA-00071
Conn Certification - PH-0520

Report Date May 19, 2015

Customer	Contact	Laboratory Supervisor	eMail
Microbac Laboratories, Inc	N. Audet	Madhu Shah	madhu@sterlinganalytical.com
Sample Description Analysis of Sludge Sample			

Samples Analyzed

Enclosed are Report No(s): 50291
Reported on dry basis.

Thank you for your business

madhu shah

Madhu Shah, Laboratory Supervisor

5/19/2015

Date

ALL the information contained in this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method.
This report may not be reproduced, except in full, without written approval from Sterling Analytical, Inc.

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Monday, May 18, 2015

Attn: Mr. Tom Deller
Veolia Water, Naugatuck Plant
500 Cherry Street
Naugatuck, CT 06770

Project ID: NAUGATUCK
Sample ID#s: BJ15207

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



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

Analysis Report
 May 18, 2015

FOR: Attn: Mr. Tom Deller
 Veolia Water, Naugatuck Plant
 500 Cherry Street
 Naugatuck, CT 06770

Sample Information

Matrix: WASTE WATER
 Location Code: VEOLIANA
 Rush Request: Standard
 P.O.#: 7766000379

Custody Information

Collected by: TD
 Received by: B
 Analyzed by: see "By" below

Date Time

05/07/15
 05/12/15 15:54

Laboratory Data

SDG ID: GBJ15207
 Phoenix ID: BJ15207

Project ID: NAUGATUCK
 Client ID: WASTEWATER

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	< 0.040	0.040	mg/L	1	05/16/15	LK	E200.7
Beryllium	< 0.010	0.010	mg/L	1	05/16/15	LK	E200.7
Cadmium	0.0083	0.0010	mg/L	1	05/14/15	RS	SM3113B
Chromium	0.287	0.010	mg/L	1	05/16/15	LK	E200.7
Copper	4.71	0.050	mg/L	1	05/16/15	LK	E200.7
Mercury	< 0.0002	0.0002	mg/L	1	05/15/15	RS	E245.1
Nickel	0.135	0.010	mg/L	1	05/16/15	LK	E200.7
Lead	0.201	0.020	mg/L	1	05/16/15	LK	E200.7
Selenium	< 0.010	0.010	mg/L	1	05/15/15	RS	SM3113B-10
Zinc	4.62	0.020	mg/L	1	05/16/15	LK	E200.7
Fixed Solids	2500	10	mg/L	1	05/13/15	KH	SM209D/E160.4
pH	7.00	0.10	pH Units	1	05/12/15 23:00	RWR/KDB	SM4500-H B-00
Total Solids	12000	100	mg/L	10	05/13/15	KH	SM2540B-97
Volatile Solids	9000	100	mg/L	1	05/13/15	KH	SM2540E/E160.4-9
Mercury Digestion	Completed				05/15/15	I/I	E245.1
PCB Extraction	Completed				05/12/15	L	SW3510C
Total Metals Digestion	Completed				05/12/15	AG	

Polychlorinated Biphenyls

PCB-1016	ND	10	ug/L	1	05/13/15	AW	E608
PCB-1221	ND	10	ug/L	1	05/13/15	AW	E608
PCB-1232	ND	10	ug/L	1	05/13/15	AW	E608
PCB-1242	ND	10	ug/L	1	05/13/15	AW	E608
PCB-1248	ND	10	ug/L	1	05/13/15	AW	E608
PCB-1254	ND	10	ug/L	1	05/13/15	AW	E608
PCB-1260	ND	10	ug/L	1	05/13/15	AW	E608
PCB-1262	ND	10	ug/L	1	05/13/15	AW	E608
PCB-1268	ND	10	ug/L	1	05/13/15	AW	E608

Project ID: NAUGATUCK
Client ID: WASTEWATER

Phoenix I.D.: BJ15207

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>QA/QC Surrogates</u>							
% DCBP	62		%	1	05/13/15	AW	30 - 150 %
% TCMX	82		%	1	05/13/15	AW	30 - 150 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

May 18, 2015

Reviewed and Released by: Kathleen Cressia, QA/QC Officer



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

QA/QC Report

May 18, 2015

QA/QC Data

SDG I.D.: GBJ15207

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 307331 (mg/L), QC Sample No: BJ14166 (BJ15207)													
Cadmium - Water	BRL	0.0001	<0.0001	<0.0001	NC	109	110	0.9	115	117	1.7	75 - 125	20
QA/QC Batch 307528 (mg/L), QC Sample No: BJ14302 (BJ15207)													
Selenium - Water	BRL	0.005	<0.002	<0.005	NC	113	112	0.9	109	104	4.7	75 - 125	20
QA/QC Batch 307651 (mg/L), QC Sample No: BJ15004 (BJ15207)													
ICP Metals - Aqueous													
Arsenic	BRL	0.004	<0.004	<0.004	NC	100	106	5.8	98.2	98.8	0.6	75 - 125	20
Beryllium	BRL	0.001	<0.001	<0.001	NC	104	110	5.6	98.2	100	1.8	75 - 125	20
Chromium	BRL	0.001	<0.001	<0.001	NC	103	109	5.7	101	101	0.0	75 - 125	20
Copper	BRL	0.005	4.54	4.48	1.30	105	111	5.6	125	>130	NC	75 - 125	20
Lead	BRL	0.002	0.015	0.012	22.2	98.4	104	5.5	96.8	97.2	0.4	75 - 125	20
Nickel	BRL	0.001	0.002	0.002	NC	103	108	4.7	99.3	99.9	0.6	75 - 125	20
Zinc	BRL	0.002	0.057	0.048	17.1	102	107	4.8	98.5	99.3	0.8	75 - 125	20
QA/QC Batch 308028 (mg/L), QC Sample No: BJ16389 (BJ15207)													
Mercury - Water	BRL	0.0002	<0.0004	<0.0004	NC	108	101	6.7	98.9	99.5	0.6	70 - 130	20

m
r

Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.

m = This parameter is outside laboratory ms/msd specified recovery limits.

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



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

QA/QC Report

May 18, 2015

QA/QC Data

SDG I.D.: GBJ15207

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 307737 (mg/L), QC Sample No: BJ14263 (BJ15207)													
Total Solids	BRL	10	7400	7600	2.70	99.0						85 - 115	20



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

QA/QC Report

May 18, 2015

QA/QC Data

SDG I.D.: GBJ15207

Parameter	Blank	Bik RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 307521 (ug/L), QC Sample No: BJ14306 (BJ15207)										
<u>Polychlorinated Biphenyls - Waste Water</u>										
PCB-1016	ND	0.050	104	101	2.9				40 - 140	20
PCB-1221	ND	0.050							40 - 140	20
PCB-1232	ND	0.050							40 - 140	20
PCB-1242	ND	0.050							40 - 140	20
PCB-1248	ND	0.050							40 - 140	20
PCB-1254	ND	0.050							40 - 140	20
PCB-1260	ND	0.050	106	107	0.9				40 - 140	20
PCB-1262	ND	0.050							40 - 140	20
PCB-1268	ND	0.050							40 - 140	20
% DCBP (Surrogate Rec)	64	%	56	64	13.3				30 - 150	20
% TCMX (Surrogate Rec)	73	%	79	78	1.3				30 - 150	20

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director
 May 18, 2015

Sample Criteria Exceedences Report

Criteria: None

State: CT

GBJ15207 - VEOLIANA

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL	Analysis Units
--------	-------	-----------------	----------	--------	----	----------	----	----------------

*** No Data to Display ***

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

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726



Customer: Veolia Water, NA
 Address: 500 Cherry St Ext
 Naugatuck, Ct 06770
 Attn: Tom Deller

Project: Naugatuck
 Report to: Tom Deller
 Invoice to: [Redacted] 2nd Qtr
 Phone #: 203-723-1433 ext 2004
 Fax #: 203-723-8539

Project P. [Redacted] 2nd Qtr

Coolant: IPK ICE No No
 Temp °C Pg of
 Data Delivery: Fax #: _____
 Email: tom.deller@veolia.com

Sampler's Signature: *[Signature]* T. Deller Date: 5-13-15

Client Sample - Information - Identification
 Matrix Code: DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sludge SL=Sludge S=Soil SD=Solid W=Wipe
 OIL=Oil B=Bulk L=Liquid

Customer Sample Identification: Wastewater
 Sample Matrix: WW
 Date Sampled: 5/7/15
 Time Sampled: N/A

Analysis Request	Asstc	Chrom	Nickel	Fixed Solids	Volatile Solids	Zinc	Mercury	Cadmium	Copper	Lead	Soil VOA Yals	40 ml VOA Vial	8 oz Soil Container	1000 ml Amber Vial	1000 ml H2O	1000 ml HCl	1000 ml H2SO4	250 ml HCl	250 ml H2SO4	250 ml NaOH	Bacteria Bottle
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Relinquished by: *[Signature]* T. Deller Accepted by: *[Signature]* Date: 5-13-15 Time: 8:15 AM

RI Direct Exposure (Residential) GW Other

CI RCP Cert GW Protection SW Protection GA Mobility GB Mobility Residential DEC I/C DEC Other

MA MCP Certification GW-1 GW-2 GW-3 S-1 S-2 S-3 MWRA eSMART Other

Data Format Excel PDF GIS/Key EQUIS Other

Data Package Tier II Checklist Full Data Package* Phoenix Std Report Other

Turnaround: 1 Day* 2 Days* 3 Days* Standard Other

* SURCHARGE APPLIES

State where samples were collected: _____

* SURCHARGE APPLIES

Comments, Special Requirements or Regulations:
 Bedford Hills 2nd Qtr