

4/30/15 2:00 PM M12



Thursday, April 30, 2015

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

Project ID: NAUGATUCK  
Sample ID#s: BJ06959

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

April 30, 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

04/23/15  
 04/23/15 16:01

## Laboratory Data

SDG ID: GBJ06959  
 Phoenix ID: BJO6959

Project ID: NAUGATUCK  
 Client ID: SLUDGE CHICOPEE 2ND QTR

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.5	0.8	mg/Kg	1	04/24/15	EK	SW8010C
Beryllium	< 0.41	0.41	mg/Kg	1	04/24/15	EK	SW8010C
Cadmium	1.31	0.41	mg/Kg	1	04/24/15	EK	SW8010C
Chromium	93.0	0.41	mg/Kg	1	04/24/15	EK	SW8010C
Copper	355	4.1	mg/Kg	10	04/24/15	EK	SW8010C
Mercury	0.29	0.10	mg/kg	1	04/24/15	RS	SW7471B
Nickel	26.3	0.41	mg/Kg	1	04/24/15	EK	SW8010C
Lead	35.7	0.41	mg/Kg	1	04/24/15	EK	SW8010C
Selenium	3.6	2.1	mg/Kg	1	04/24/15	EK	SW8010C
Zinc	431	4.1	mg/Kg	10	04/24/15	EK	SW8010C
Percent Solid	24.7	1	%				SW846-%Solid
Total Solids @ 104C	24.7	0.1	%	1	04/27/15	KH/CL	SM2540B-97
Fixed Solids @ 500C	20.3	0.1	%	1	04/27/15	KH/CL	E160.4
pH - Sludge	5.85	0.10	pH Units	1	04/23/15 19:30	DH/KDB	SW9045
Volatile Solids @ 500C	79.7	0.1	%	1	04/27/15	KH/CL	SM2540E/E160.4-9
Mercury Digestion	Completed				04/24/15	I/I	SW7471B
Sludge Ext. for PCB	Completed				04/24/15	M/M	SW3550C
Total Metals Digest	Completed				04/23/15	CB/AG	SW3050B

## Polychlorinated Biphenyls

PCB-1016	ND	390	ug/Kg	1	04/25/15	AW	SW8082A
PCB-1221	ND	390	ug/Kg	1	04/25/15	AW	SW8082A
PCB-1232	ND	390	ug/Kg	1	04/25/15	AW	SW8082A
PCB-1242	ND	390	ug/Kg	1	04/25/15	AW	SW8082A
PCB-1248	ND	390	ug/Kg	1	04/25/15	AW	SW8082A
PCB-1254	ND	390	ug/Kg	1	04/25/15	AW	SW8082A
PCB-1260	ND	390	ug/Kg	1	04/25/15	AW	SW8082A
PCB-1262	ND	390	ug/Kg	1	04/25/15	AW	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1268	ND	390	ug/Kg	1	04/25/15	AW	SW8082A
<b><u>QA/QC Surrogates</u></b>							
% DCBP	66		%	1	04/25/15	AW	30 - 150 %
% TCMX	46		%	1	04/25/15	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

April 30, 2015

Reviewed and Released by: Deb Lawrie, Project Manager



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

# QA/QC Report

April 30, 2015

## QA/QC Data

SDG I.D.: GBJ06959

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 305737 (mg/kg), QC Sample No: BJ06310 (BJ06959)													
Mercury - Soil	BRL	0.06	0.11	0.08	NC	112	111	0.9	82.7	134	47.3	70 - 130	30
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.													
QA/QC Batch 305667 (mg/kg), QC Sample No: BJ06628 (BJ06959)													
<b>ICP Metals - Soil</b>													
Arsenic	BRL	0.69	1.9	2.01	NC	105	97.5	7.4	96.7	95.5	1.2	75 - 125	30
Beryllium	BRL	0.28	0.27	0.30	NC	107	99.3	7.5	102	99.7	2.3	75 - 125	30
Cadmium	BRL	0.35	<0.33	<0.36	NC	109	105	3.7	100	98.2	1.8	75 - 125	30
Chromium	BRL	0.35	9.95	9.83	1.20	107	102	4.8	106	104	1.9	75 - 125	30
Copper	BRL	0.35	13.2	14.0	5.90	107	100	6.8	110	109	0.9	75 - 125	30
Lead	0.36	0.35	5.93	6.13	3.30	106	98.6	7.2	99.8	98.0	1.8	75 - 125	30
Nickel	BRL	0.35	10.3	10.5	1.90	108	104	3.8	103	99.4	3.6	75 - 125	30
Selenium	BRL	1.4	<1.3	<1.5	NC	101	93.9	7.3	84.0	83.5	0.6	75 - 125	30
Zinc	BRL	0.35	18.6	21.1	12.6	108	98.7	9.0	106	101	4.8	75 - 125	30

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

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



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## QA/QC Report

April 30, 2015

### QA/QC Data

SDG I.D.: GBJ06959

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 305914 (), QC Sample No: BJ06958 (BJ06959)													
Total Solids		BRL	0.1	22.4	21.5	4.10	100					85 - 115	30
QA/QC Batch 305755 (PH), QC Sample No: BJ07201 (BJ06959)													
pH - Soil			8.07	8.16	1.10	98.6						85 - 115	20



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**QA/QC Report**

April 30, 2015

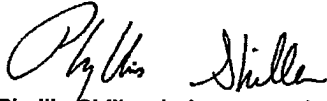
QA/QC Data

SDG I.D.: GBJ06959

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 305648 (ug/Kg), QC Sample No: BJ05600 (BJ06959)										
<b>Polychlorinated Biphenyls - Sludge</b>										
PCB-1016	ND	13	68	53	24.8				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	89	69	25.3				40 - 140	30
PCB-1262	ND	13							40 - 140	30
PCB-1268	ND	13							40 - 140	30
% DCBP (Surrogate Rec)	98	%	104	80	26.1				30 - 150	30
% TCMX (Surrogate Rec)	72	%	75	58	25.6				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  
 April 30, 2015

# Sample Criteria Exceedences Report

GBJ06959 - 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.

Cooler: Yes  No   
 Coolant:  ICE  No   
 Temp:    °C    Pg of   

**CHAIN OF CUSTODY RECORD**

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
 Email: info@phenixlabs.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:**  
**Phone #:** 203-723-1433 ext 2004  
**Fax #:** 203-723-8839

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

**Project P.O.:**

This section MUST be completed with Bottle Quantities.

**Sample's Signature:** *[Signature]* **Date:** 4-23-15  
**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

**Next Client's Information Identification:**  
**Signature:** *[Signature]* **Date:** 4-23-15  
**Customer Sample Identification:** Sludge  
**Sample Matrix:** SL  
**Date Sampled:** 4/23/15  
**Time Sampled:** N/A

Analysis Request	Chromium, Barium, Cadmium, Nickel, Pb, PCBs, Selenium, Fixed Solids, Total Solids, Volatile Solids, Zinc	Asenic, Beryllium, Copper, Lead, Mercury	SOI VOA Vial (Methanol) 1 H2O	40 ml VOA Vial ( ) oz	GI Sol container ( 8 ) oz	GI Amber 1000ml X 1 As Is ( HCl )	PL As Is ( 250ml ) 1 As Is ( 1250ml )	PL H2SO4 (X) 250ml (X) 500ml (X) 1000ml	PL HNO3 250ml	Bacteria Bottle
X	X	X	X	X	X	X	X	X	X	X

**Relinquished By:** *[Signature]* **Accepted by:** *[Signature]*  
**Date:** 4/23/15 **Time:** 1:35  
**Turnaround:**  
 1 Day\*  
 2 Days\*  
 3 Days\*  
 Standard  
 Other

**Comments, Special Requirements or Regulations:**  
 Chitcopee - 2nd Qtr

**RI**  Direct Exposure (Residential)  
 GW  
 Other

**CT**  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  
 EQGIS  
 Other

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

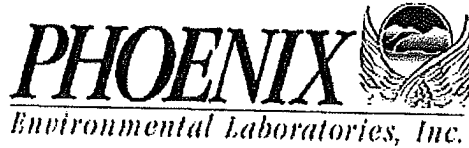
**\* SURCHARGE APPLIES**

State where samples were collected: \_\_\_\_\_









Wednesday, July 15, 2015

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

Project ID: NAUGATUCK  
Sample ID#s: BJ43889

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.

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Sincerely yours,

Phyllis Shiller

Laboratory Director

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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



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# Analysis Report

July 15, 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: RG  
 Received by: SW  
 Analyzed by: see "By" below

Date: 07/09/15  
 Time: 15:34

## Laboratory Data

SDG ID: GBJ43889  
 Phoenix ID: BJ43889

Project ID: NAUGATUCK  
 Client ID: SLUDGE-

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.2	1.5	mg/Kg	1	07/10/15	LK	SW6010C
Beryllium	< 0.75	0.75	mg/Kg	1	07/10/15	LK	SW6010C
Cadmium	1.12	0.75	mg/Kg	1	07/10/15	LK	SW6010C
Chromium	18.0	0.75	mg/Kg	1	07/10/15	LK	SW6010C
Copper	827	7.5	mg/Kg	10	07/10/15	LK	SW6010C
Mercury	1.00	0.17	mg/kg	1	07/13/15	RS	SW7471B
Nickel	10.6	0.75	mg/Kg	1	07/10/15	LK	SW6010C
Lead	66.5	0.75	mg/Kg	1	07/10/15	LK	SW6010C
Selenium	< 3.7	3.7	mg/Kg	1	07/10/15	LK	SW6010C
Zinc	765	7.5	mg/Kg	10	07/10/15	LK	SW6010C
Total Solids @ 104C	15.7	0.1	%	1	07/10/15	TM	SM2540B-97
Fixed Solids @ 500C	20.4	0.1	%	1	07/10/15	TM	E160.4
Nitrite as N	25.4	0.64	mg/kg	10	07/10/15	BS/EG	SW9056A
Nitrate as N	< 3.2	3.2	mg/kg	10	07/10/15	BS/EG	SW9056A
Organic Nitrogen	42700	390	mg/Kg	1	07/14/15	WHM	E350.1/E350.2
pH - Sludge	5.42	0.10	pH Units	1	07/09/15 21:00	DH/EG	SW9045
Nitrogen Tot Kjeldahl	55700	1900	mg/Kg	1	07/14/15	WHM	E351.1
Volatile Solids @ 500C	79.6	0.1	%	1	07/10/15	TM	SM2540E/E160.4-9
Mercury Digestion	Completed				07/13/15	I/I	SW7471B
Sludge Ext. for PCB	Completed				07/10/15	M/M	SW3550C
Total Metals Digest	Completed				07/09/15	G/AGR	SW3050B

## Polychlorinated Biphenyls

PCB-1016	ND	610	ug/Kg	1	07/11/15	AW	SW8082A
PCB-1221	ND	610	ug/Kg	1	07/11/15	AW	SW8082A
PCB-1232	ND	610	ug/Kg	1	07/11/15	AW	SW8082A
PCB-1242	ND	610	ug/Kg	1	07/11/15	AW	SW8082A
PCB-1248	ND	610	ug/Kg	1	07/11/15	AW	SW8082A

Project ID: NAUGATUCK  
Client ID: SLUDGE

Phoenix I.D.: BJ43889

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1254	ND	610	ug/Kg	1	07/11/15	AW	SW8082A
PCB-1260	ND	610	ug/Kg	1	07/11/15	AW	SW8082A
PCB-1262	ND	610	ug/Kg	1	07/11/15	AW	SW8082A
PCB-1268	ND	610	ug/Kg	1	07/11/15	AW	SW8082A
<b>QA/QC Surrogates</b>							
% DCBP	76		%	1	07/11/15	AW	30 - 150 %
% TCMX	58		%	1	07/11/15	AW	30 - 150 %

B = Present in blank, no bias suspected.

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

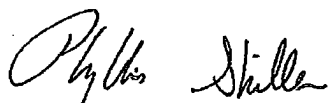
**Comments:**

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.

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Phyllis Shiller, Laboratory Director

July 15, 2015

Reviewed and Released by: Deb Lawrie, Project Manager



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

**QA/QC Report**

July 15, 2015

QA/QC Data

SDG I.D.: GBJ43889

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 313394 (mg/kg), QC Sample No: BJ43926 (BJ43889)													
Mercury - Soil	BRL	0.08	<0.03	<0.03	NC	106	103	2.9	101	94.5	6.6	70 - 130	30
Comment:													

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

QA/QC Batch 313372 (mg/kg), QC Sample No: BJ44179 (BJ43889)

ICP Metals - Soil

Arsenic	BRL	0.67	<0.7	<0.67	NC	92.0	88.9	3.4	93.3	95.2	2.0	75 - 125	30
Beryllium	BRL	0.27	<0.27	<0.27	NC	94.0	89.9	4.5	99.6	102	2.4	75 - 125	30
Cadmium	BRL	0.33	<0.34	<0.33	NC	93.2	88.7	4.9	94.8	97.5	2.8	75 - 125	30
Chromium	BRL	0.33	2.98	1.72	53.6	100	95.1	5.0	106	104	1.9	75 - 125	30
Copper	BRL	0.33	0.99	0.85	NC	101	97.5	3.5	107	109	1.9	75 - 125	30
Lead	BRL	0.33	1.15	1.01	NC	93.8	86.9	7.6	96.3	98.7	2.5	75 - 125	30
Nickel	BRL	0.33	0.95	0.90	NC	96.6	91.1	5.9	99.7	102	2.3	75 - 125	30
Selenium	BRL	1.3	<1.3	<1.3	NC	79.2	75.1	5.3	84.1	85.6	1.8	75 - 125	30
Zinc	BRL	0.33	1.95	1.62	NC	93.0	89.1	4.3	96.9	98.9	2.0	75 - 125	30

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



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**QA/QC Report**

July 15, 2015

QA/QC Data

SDG I.D.: GBJ43889

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 313418 (), QC Sample No: BJ43889 (BJ43889)													
Total Solids	0.271	0.1	15.7	15.6	0.60	100						85 - 115	30
QA/QC Batch 313399 (PH), QC Sample No: BJ44011 (BJ43889)													
pH - Soil			6.21	6.06	2.40	99.2						85 - 115	20
QA/QC Batch 313656 (mg/L), QC Sample No: BJ44012 (BJ43889)													
Nitrogen Tot Kjeldahl	BRL	0.10	1.07	1.09	1.90	93.3			102			85 - 115	20
QA/QC Batch 313472 (mg/L), QC Sample No: BJ44468 (BJ43889)													
Nitrate as Nitrogen	BRL	0.05	<0.05	<0.05	NC	92.9			99.3			85 - 115	20
Nitrite as Nitrogen	BRL	0.004	<0.004	<0.004	NC	98.2			108			85 - 115	20



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**QA/QC Report**  
 July 15, 2015

QA/QC Data

SDG I.D.: GBJ43889

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
QA/QC Batch 313129 (ug/Kg), QC Sample No: BJ41932 (BJ43889)										
<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
- Inf - Interference

*Phyllis Shiller*  
 Phyllis/Shiller, Laboratory Director  
 July 15, 2015



Wednesday, July 15, 2015

# Sample Criteria Exceedences Report

Criteria: None

State: CT

GBJ43889 - VEOLIANA

Sample No    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) 645-3726

Cooler: Yes  No   
 Coolant: IPK  ICE   
 Temp 20 °C Pg 1 of 1

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

Customer: Veolia Water, NA Project: Naugatuck  
 Address: 500 Cherry St Ext Report to: Tom Deller  
Naugatuck, Ct 06770 Invoice to: \_\_\_\_\_  
 Atn: Tom Deller Phone #: 203-723-1433 ext 2004  
 Fax #: 203-723-8539

This section MUST be completed with Bottle Quantities.

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

Matrix Code: W  
 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

PHOENIX USE ONLY SAMPLE # 1388  
 Customer Sample Identification: Sludge Date Sampled: 7/8/15 Time Sampled: N/A  
 Sample Matrix: SL

Analysis Request	Aspic. Beryllium Cadmium Chromium, Copper, Lead Mercury Nickel, PH, PCBs, Selenium TriX Solids Total Solids	NO2, NO3, TKN, TON	SO4 VOA Vals. [methanol] H2O	40 ml VOA Vial (x 1) [oz]	GL Sol container (x 1) [oz]	GL Amber 100ml (x 1) [oz]	PL Asic. [H2SO4]	PL HNO3 [X] 250ml [1500ml]	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
X	X	X	X	X	X	X	X	X	X	X	X

Relinquished by: [Signature] Accepted by: [Signature]  
 Date: 2015/7/15 Time: 12:54  
 Turnaround:  1 Day\*  2 Days\*  3 Days\*  Standard  Other  
 \*SURCHARGE APPLIES

Comments, Special Requirements or Regulations:  
3rd Qtr 2015 GLEN COVE

State where samples were collected: CT  
 \*SURCHARGE APPLIES

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

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

RI  Direct Exposure (Residential)  GW  Other

Data Format:  Excel  PDF  GIS/Key  EquiS  Other

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



# 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**

Cooler: Yes  No   
 Coolant: IPK  ICE   
 Temp °C Pg of

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

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

Sampler's Signature: *[Signature]* Date: 7/9/15  
 Signature: *[Signature]* Date: 7/9/15

Matrix Code: 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

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request
	Sludge	SL	7/8/15	N/A	Asenic, Beryllium, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, PH, PCBs, Selenium, Volatile solids, Total Solids, Fixed solids, Total Solids, KO2, NO3, TN, TON
					SAVCA Vial [ methanol ] H2O
					40 ml VOA Vial [ As is ] HCl
					GL Soil container ( 8 ) oz
					GL Amber 100ml [ As is ] HCl
					PL H2SO4 [ X ] 250ml [ 500ml ] X
					PL HNO3 250ml
					Bacteria Bottle

This section MUST be completed with Bottle Quantities.

Relinquished by: *[Signature]* Accepted by: *[Signature]* Date: 2015/7/9 Time: 12:54

Comments, Special Requirements or Regulations:  
 3rd Qtr 2015 GLEN COVE

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

\* SURCHARGE APPLIES

RI  Direct Exposure (Residential)  
 GW  
 Other

CT  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

\* SURCHARGE APPLIES

State where samples were collected: CT

452

~~2/20/2015~~



Wednesday, April 29, 2015

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

Project ID: NAUGATUCK  
Sample ID#s: BJ06283

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**  
 April 29, 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  
 04/22/15  
 04/22/15 15:58

Laboratory Data

SDG ID: GBJ06283  
 Phoenix ID: BJ06283

Project ID: NAUGATUCK  
 Client ID: SLUDGE

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.3	1.2	mg/Kg	1	04/23/15	LK	SW6010C
Beryllium	< 0.59	0.59	mg/Kg	1	04/23/15	LK	SW6010C
Cadmium	2.91	0.59	mg/Kg	1	04/23/15	LK	SW6010C
Chromium	13.7	0.59	mg/Kg	1	04/23/15	LK	SW6010C
Copper	448	5.9	mg/Kg	10	04/23/15	LK	SW6010C
Mercury	0.61	0.15	mg/kg	1	04/23/15	RS	SW7471B
Nickel	8.77	0.59	mg/Kg	1	04/23/15	LK	SW6010C
Lead	91.9	0.59	mg/Kg	1	04/23/15	LK	SW6010C
Selenium	3.5	2.9	mg/Kg	1	04/23/15	LK	SW6010C
Zinc	454	5.9	mg/Kg	10	04/23/15	LK	SW6010C
Percent Solid	18.0	1	%		04/23/15	LK	SW6010C
Total Solids @ 104C	18.0	0.1	%				SW846-%Solid
Fixed Solids @ 500C	19.7	0.1	%	1	04/23/15	KH	SM2540B-97
pH - Sludge	5.95	0.10	pH Units	1	04/23/15	KH	E160.4
Volatile Solids @ 500C	80.3	0.1	%	1	04/22/15 20:00	DH/KDB	SW9045
Mercury Digestion	Completed				04/23/15	KH	SM2540E/E160.4-9
Sludge Ext. for PCB	Completed				04/23/15	I/I	SW7471B
Total Metals Digest	Completed				04/23/15	M/M	SW3550C
					04/22/15	CB/AG	SW3050B
<b>Polychlorinated Biphenyls</b>							
PCB-1016	ND	540	ug/Kg	1	04/24/15	AW	SW8082A
PCB-1221	ND	540	ug/Kg	1	04/24/15	AW	SW8082A
PCB-1232	ND	540	ug/Kg	1	04/24/15	AW	SW8082A
PCB-1242	ND	540	ug/Kg	1	04/24/15	AW	SW8082A
PCB-1248	ND	540	ug/Kg	1	04/24/15	AW	SW8082A
PCB-1254	ND	540	ug/Kg	1	04/24/15	AW	SW8082A
PCB-1260	ND	540	ug/Kg	1	04/24/15	AW	SW8082A
PCB-1262	ND	540	ug/Kg	1	04/24/15	AW	SW8082A

Project ID: NAUGATUCK  
Client ID: SLUDGE

Phoenix I.D.: BJ06283

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1268	ND	540	ug/Kg	1	04/24/15	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	102		%	1	04/24/15	AW	30 - 150 %
% TCMX	66		%	1	04/24/15	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

April 29, 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

April 29, 2015

## QA/QC Data

SDG I.D.: GBJ06283

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 305496 (mg/kg), QC Sample No: BJ06183 (BJ06283)													
<b>ICP Metals - Soil</b>													
Arsenic	BRL	0.69	12.3	15.0	19.8	96.4	95.8	0.6	94.0	94.8	0.8	75 - 125	30
Beryllium	BRL	0.28	<0.32	<0.28	NC	95.2	96.7	1.6	95.3	95.9	0.6	75 - 125	30
Cadmium	BRL	0.35	0.42	<0.36	NC	94.7	104	9.4	90.2	91.6	1.5	75 - 125	30
Chromium	BRL	0.35	21.9	17.2	24.0	94.5	97.8	3.4	92.1	103	11.2	75 - 125	30
Copper	BRL	0.35	50.0	49.3	1.40	98.3	101	2.7	109	111	1.8	75 - 125	30
Lead	BRL	0.35	94.5	427	128	95.5	98.3	2.9	84.0	81.3	3.3	75 - 125	30
Nickel	BRL	0.35	16.0	15.5	3.20	96.6	105	8.3	94.0	95.7	1.8	75 - 125	30
Selenium	BRL	1.4	<1.6	<1.4	NC	92.0	96.8	5.1	83.6	84.4	1.0	75 - 125	30
Zinc	BRL	0.35	108	93.9	14.0	99.6	102	2.4	82.8	81.2	2.0	75 - 125	30
QA/QC Batch 305565 (mg/kg), QC Sample No: BJ06628 (BJ06283)													
Mercury - Soil	BRL	0.06	<0.03	<0.03	NC	124	112	10.2	115	120	4.3	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.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**QA/QC Report**

April 29, 2015

QA/QC Data

SDG I.D.: GBJ06283

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 305590 (), QC Sample No: BJ05620 (BJ06283)													
Total Solids	0.102	0.1	14.4	14.0	2.80	100						85 - 115	30
QA/QC Batch 305558 (PH), QC Sample No: BJ06167 (BJ06283)													
pH - Soil			7.80	7.93	1.70	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

April 29, 2015

## QA/QC Data

SDG I.D.: GBJ06283

Parameter	Blank	Bik RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 305648 (ug/Kg), QC Sample No: BJ05600 (BJ06283)										
<u>Polychlorinated Biphenyls - Sludge</u>										
PCB-1016	ND	13								
PCB-1221	ND	13	68	53	24.8				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							40 - 140	30
PCB-1262	ND	13	89	69	25.3				40 - 140	30
PCB-1268	ND	13							40 - 140	30
% DCBP (Surrogate Rec)	98	%							40 - 140	30
% TCMX (Surrogate Rec)	72	%	104	80	26.1				30 - 150	30
			75	58	25.6				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*  
 Phyllis Shiller, Laboratory Director  
 April 29, 2015

Wednesday, April 29, 2015

Criteria: None

State: CT

SampNo    Acode    Phoenix Analyte

Criteria

Result

RL

Criteria

RL  
Criteria

Analysis  
Units

# Sample Criteria Exceedences Report

## GBJ06283 - VEOLIANA

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.

\*\*\* No Data to Display \*\*\*







~~3rd Oct 2015~~  
M.12

8-2015



Friday, August 21, 2015

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

Project ID: NAUGATUCK  
Sample ID#s: BJ74241

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 21, 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: SW  
 Analyzed by: see "By" below

Date                      Time  
 08/12/15  
 08/13/15                      16:00

Laboratory Data

SDG ID: GBJ74241  
 Phoenix ID: BJ74241

Project ID: NAUGATUCK  
 Client ID: SLUDGE

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.8	1.4	mg/Kg	1	08/15/15	EK	SW6010C
Beryllium	< 0.71	0.71	mg/Kg	1	08/15/15	EK	SW6010C
Cadmium	3.10	0.71	mg/Kg	1	08/15/15	EK	SW6010C
Chromium	179	0.71	mg/Kg	1	08/15/15	EK	SW6010C
Copper	522	7.1	mg/Kg	10	08/15/15	EK	SW6010C
Mercury	0.45	0.17	mg/kg	1	08/14/15	RS	SW7471B
Nickel	45.8	0.71	mg/Kg	1	08/15/15	EK	SW6010C
Lead	80.0	0.71	mg/Kg	1	08/15/15	EK	SW6010C
Selenium	6.6	3.5	mg/Kg	1	08/15/15	EK	SW6010C
Zinc	717	7.1	mg/Kg	10	08/15/15	EK	SW6010C
Percent Solid	15.1	1	%				SW846-%Solid
Total Solids @ 104C	15.1	0.1	%	1	08/14/15	TM/KH	SM2540B-97
Fixed Solids @ 500C	26.5	0.1	%	1	08/14/15	TM/KH	E160.4
Nitrite as N	67.6	6.6	mg/kg	100	08/14/15	BS/EG	SW9056A
Nitrate as N	< 3.3	3.3	mg/kg	10	08/14/15	BS/GD	SW9056A
Organic Nitrogen	44000	280	mg/Kg	1	08/19/15	WHM	E350.1/E350.2
pH - Sludge	6.04	0.10	pH Units	1	08/13/15 20:30	DH/KDB	SW9045
Nitrogen Tot Kjeldahl	61200	1400	mg/Kg	1	08/19/15	WHM	E351.1
Total Nitrogen	61300	0.05	mg/Kg	1	08/19/15	WHM	SM4500NH3/E300.0
Volatile Solids @ 500C	73.5	0.1	%	1	08/14/15	TM/KH	SM2540E/E160.4-9
Mercury Digestion	Completed				08/14/15	U/U	SW7471B
Sludge Ext. for PCB	Completed				08/17/15	M/M	SW3550C
Total Metals Digest	Completed				08/13/15	G/G	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	630	ug/Kg	1	08/18/15	AW	SW8082A
PCB-1221	ND	630	ug/Kg	1	08/18/15	AW	SW8082A
PCB-1232	ND	630	ug/Kg	1	08/18/15	AW	SW8082A



Project ID: NAUGATUCK  
Client ID: SLUDGE

Phoenix I.D.: BJ74241

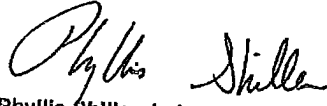
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1242	ND	630	ug/Kg	1	08/18/15	AW	SW8082A
PCB-1248	ND	630	ug/Kg	1	08/18/15	AW	SW8082A
PCB-1254	ND	630	ug/Kg	1	08/18/15	AW	SW8082A
PCB-1260	ND	630	ug/Kg	1	08/18/15	AW	SW8082A
PCB-1262	ND	630	ug/Kg	1	08/18/15	AW	SW8082A
PCB-1268	ND	630	ug/Kg	1	08/18/15	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	113		%	1	08/18/15	AW	30 - 150 %
% TCMX	85		%	1	08/18/15	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 21, 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 21, 2015

QA/QC Data

SDG I.D.: GBJ74241

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 317130 (mg/kg), QC Sample No: BJ73797 (BJ74241)													
<u>ICP Metals - Soil</u>													
Arsenic	BRL	0.67	1.3	1.15	NC	99.8	92.1	8.0	94.0	95.6	1.7	75 - 125	30
Beryllium	BRL	0.27	<0.27	0.28	NC	104	95.0	9.0	101	103	2.0	75 - 125	30
Cadmium	BRL	0.33	<0.34	<0.31	NC	98.2	87.5	11.5	92.6	94.3	1.8	75 - 125	30
Chromium	BRL	0.33	7.31	8.10	10.3	106	96.0	9.9	100	102	2.0	75 - 125	30
Copper	BRL	0.33	13.8	17.4	23.1	107	98.1	8.7	109	109	0.0	75 - 125	30
Lead	BRL	0.33	37.5	36.9	1.60	98.2	92.1	6.4	94.0	99.8	6.0	75 - 125	30
Nickel	BRL	0.33	6.06	6.81	11.7	107	95.8	11.0	96.5	98.4	1.9	75 - 125	30
Selenium	BRL	1.3	<1.4	<1.3	NC	86.7	79.2	9.0	83.4	85.0	1.9	75 - 125	30
Zinc	BRL	0.33	70.6	71.4	1.10	97.7	88.8	9.5	99.7	98.7	1.0	75 - 125	30
QA/QC Batch 317177 (mg/kg), QC Sample No: BJ74314 (BJ74241)													
Mercury - Soil	BRL	0.06	<0.03	<0.03	NC	104	97.5	6.5	99.4	101	1.6	70 - 130	30
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

August 21, 2015

## QA/QC Data

SDG I.D.: GBJ74241

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 317230 (), QC Sample No: BJ73935 (BJ74241)													
Total Solids	BRL	0.1	27.8	28.1	1.10	100						85 - 115	30
QA/QC Batch 317173 (PH), QC Sample No: BJ74427 (BJ74241)													
pH - Soil			8.31	8.52	2.50	99.6						85 - 115	20
QA/QC Batch 317581 (mg/L), QC Sample No: BJ74452 (BJ74241)													
Nitrogen Tot Kjeldahl	BRL	0.10	1.29	1.23	4.80	88.8			96.0			85 - 115	20
QA/QC Batch 317276 (mg/L), QC Sample No: BJ74505 (BJ74241)													
Nitrate as Nitrogen	BRL	0.05	0.08	0.08	NC	93.6			96.3			85 - 115	20
Nitrite as Nitrogen	BRL	0.01	<0.01	<0.01	NC	99.8			102			85 - 115	20
QA/QC Batch 317437 (mg/L), QC Sample No: BJ74549 (BJ74241)													
Nitrate as Nitrogen	BRL	0.05	0.17	0.17	NC	97.5			100			85 - 115	20
Nitrite as Nitrogen	BRL	0.004	<0.004	<0.004	NC	103			96.9			85 - 115	20



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**QA/QC Report**

August 21, 2015

QA/QC Data

SDG I.D.: GBJ74241

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
QA/QC Batch 317076 (ug/Kg), QC Sample No: BJ70660 (BJ74241)										
<b>Polychlorinated Biphenyls - Sludge</b>										
PCB-1016	ND	13	75	102	30.5				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	70	74	5.6				40 - 140	30
PCB-1262	ND	13							40 - 140	30
PCB-1268	ND	13							40 - 140	30
% DCBP (Surrogate Rec)	59	%	63	75	17.4				40 - 140	30
% TCMX (Surrogate Rec)	44	%	50	54	7.7				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*  
 Phyllis/Shiller, Laboratory Director  
 August 21, 2015

Friday, August 21, 2015

Criteria: None

State: CT

# Sample Criteria Exceedences Report

GBJ74241 - VEOLIANA

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL	Criteria	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.



[lisa@phoenixlabs.com](mailto:lisa@phoenixlabs.com)

---

**From:** Deller, Tom [tom.deller@veolia.com]  
**Sent:** Friday, August 14, 2015 11:51 AM  
**To:** Lisa - phoenixlab.com  
**Subject:** Re: please confirm Phoenix ID GBJ74241

yes Total and Organic Nitrogen

Tom Deller  
Lead Operator  
Veolia Water  
500 Cherry Street Ext  
Naugatuck, Ct 06770  
203-723-1433 ext 2004  
[tom.deller@veolia.com](mailto:tom.deller@veolia.com)



On 14 August 2015 at 11:41, <[lisa@phoenixlabs.com](mailto:lisa@phoenixlabs.com)> wrote:

<<...>>  
Hi Tom,

I noticed on TON is written on this sludge chain...did you want Total and Organic Nitrogen analyzed?  
Or just Organic Nitrogen?  
Please let me know at your earliest convenience.

Thank you,  
Lisa

8/14/2015

[lisa@phoenixlabs.com](mailto:lisa@phoenixlabs.com)

**From:** Deller, Tom [tom.deller@veolia.com]  
**Sent:** Friday, August 14, 2015 11:51 AM  
**To:** Lisa - phoenixlab.com  
**Subject:** Re: please confirm Phoenix ID GBJ74241

yes Total and Organic Nitrogen

Tom Deller  
Lead Operator  
Veolia Water  
500 Cherry Street Ext  
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203-723-1433 ext 2004  
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<<...>>

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I noticed on TON is written on this sludge chain...did you want Total and Organic Nitrogen analyzed?  
Or just Organic Nitrogen?  
Please let me know at your earliest convenience.

Thank you,  
Lisa

8/14/2015







**LABORATORY RESULTS**

Results for the samples and analytes requested  
 The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Lab No. : 1504031-001A  
 Client Sample ID: Sludge Belt Press

**Sample Information:**  
 Type : Sludge

Attn To :  
 Collected : 4/1/2015 10:00:00 AM  
 Received : 4/1/2015 12:40:00 PM  
 Collected By CRC99

Origin:

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
<b>Analytical Method:</b> SW7.3.3.2 : <b>Prep Method:</b> SW7.3.3.2 <b>Prep Date:</b> 4/13/2015 11:25:17 AM <b>Analyst:</b> JDLR						
Reactive Cyanide	< 99.9	+	1	mg/Kg	04/13/2015 4:51 PM	Container-01 of 02
<b>Analytical Method:</b> SW9095B : <b>Analyst:</b> MM						
Free Liquids	Absent		1	P/A	04/03/2015 8:00 AM	Container-01 of 02
<b>Analytical Method:</b> SW9045D : <b>Analyst:</b> JL						
Corrosivity PH	8.2		1	pH Units	04/02/2015 10:30 AM	Container-01 of 02
<b>Analytical Method:</b> D2216 : <b>Analyst:</b> JL						
Percent Moisture	84.2		1	wt%	04/02/2015 5:50 PM	Container-01 of 02
<b>Analytical Method:</b> SW7.3.4.2 : <b>Analyst:</b> JDLR						
Reactive Sulfide	< 100	+	1	mg/Kg	04/14/2015 3:01 PM	Container-01 of 02
<b>Analytical Method:</b> SM2540G : <b>Analyst:</b> JL						
Total Solids	15.8	+	1	wt%	04/02/2015 5:50 PM	Container-01 of 02
<b>Analytical Method:</b> SM2540G : <b>Analyst:</b> JL						
Fixed Solids	24.6	+	1	wt%	04/02/2015 5:50 PM	Container-01 of 02
Total Volatile Solids	75.4	+	1	wt%	04/02/2015 5:50 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.  
 B = Found in Blank  
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 H = Received/analyzed outside of analytical holding time  
 + = NYSDOH ELAP does not offer certification for this analyte / matrix / method  
 c = Calibration acceptability criteria exceeded for this analyte  
 r = Reporting limit > MDL and < LOQ, Value estimated.  
 J = Estimated value - below calibration range  
 S = Recovery exceeded control limits for this analyte  
 N = Indicates presumptive evidence of compound

*Stu Maxwell*  
 Sr. Project Manager

Test results meet the requirements of NELAC unless otherwise noted.  
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**LABORATORY RESULTS**

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

**Sample Information:**

Type : Sludge

Lab No. : 1504031-001B

Client Sample ID: **Sludge Belt Press**

Origin:

**Attn To :**

Collected : 4/1/2015 10:00:00 AM  
 Received : 4/1/2015 12:40:00 PM TCLP  
 Collected By CRC99

Analytical Method: SW1311/8270D :		Prep Method: SW3520C			Prep Date: 4/9/2015 2:56:52 PM		Analyst: SH	
Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:		
1,4-Dichlorobenzene	< 0.0100		1	mg/L	04/10/2015 2:56 AM	Container-01 of 02		
2,4,5-Trichlorophenol	< 0.0250		1	mg/L	04/10/2015 2:56 AM	Container-01 of 02		
2,4,6-Trichlorophenol	< 0.0100		1	mg/L	04/10/2015 2:56 AM	Container-01 of 02		
2,4-Dinitrotoluene	< 0.0100		1	mg/L	04/10/2015 2:56 AM	Container-01 of 02		
2-Methylphenol	< 0.0100		1	mg/L	04/10/2015 2:56 AM	Container-01 of 02		
3-Methylphenol/4-Methylphenol	< 0.0100		1	mg/L	04/10/2015 2:56 AM	Container-01 of 02		
Hexachlorobenzene	< 0.0100		1	mg/L	04/10/2015 2:56 AM	Container-01 of 02		
Hexachlorobutadiene	< 0.0100		1	mg/L	04/10/2015 2:56 AM	Container-01 of 02		
Hexachloroethane	< 0.0100		1	mg/L	04/10/2015 2:56 AM	Container-01 of 02		
Nitrobenzene	< 0.0100		1	mg/L	04/10/2015 2:56 AM	Container-01 of 02		
Pentachlorophenol	< 0.0250		1	mg/L	04/10/2015 2:56 AM	Container-01 of 02		
Pyridine	< 0.0100		1	mg/L	04/10/2015 2:56 AM	Container-01 of 02		
Surr: 1,2-Dichlorobenzene-d4	53.7		1	%REC	Limit 16-110	04/10/2015 2:56 AM	Container-01 of 02	
Surr: 2,4,6-Tribromophenol	85.2		1	%REC	Limit 10-123	04/10/2015 2:56 AM	Container-01 of 02	
Surr: 2-Chlorophenol-d4	69.3		1	%REC	Limit 33-110	04/10/2015 2:56 AM	Container-01 of 02	
Surr: 2-Fluorobiphenyl	70.7		1	%REC	Limit 43-116	04/10/2015 2:56 AM	Container-01 of 02	
Surr: 2-Fluorophenol	40.7		1	%REC	Limit 21-110	04/10/2015 2:56 AM	Container-01 of 02	
Surr: 4-Terphenyl-d14	99.7		1	%REC	Limit 33-141	04/10/2015 2:56 AM	Container-01 of 02	
Surr: Nitrobenzene-d5	63.8		1	%REC	Limit 35-114	04/10/2015 2:56 AM	Container-01 of 02	
Surr: Phenol-d5	30.6		1	%REC	Limit 10-110	04/10/2015 2:56 AM	Container-01 of 02	

Analytical Method: SW1311/8151A :		Prep Method: SW1311/8151			Prep Date: 4/7/2015 1:38:59 PM		Analyst: MJM	
Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:		
2,4,5-TP (Silvex)	< 0.0025		1	mg/L	04/09/2015 8:34 AM	Container-01 of 02		
2,4-D	< 0.0050		1	mg/L	04/09/2015 8:34 AM	Container-01 of 02		
Surr: DCAA	95.2		1	%REC	Limit 36-121	04/09/2015 8:34 AM	Container-01 of 02	

Analytical Method: SW1311/7470A :		Prep Method: SW7470			Prep Date: 4/7/2015 9:40:00 AM		Analyst: JL	
Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:		
Mercury	< 0.200		1	ug/L	04/07/2015 2:49 PM	Container-01 of 02		

Qualifiers: E = Value above quantitation range, Value estimated.  
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 c = Calibration acceptability criteria exceeded for this analyte  
 r = Reporting limit > MDL and < LOQ, Value estimated.  
 J = Estimated value - below calibration range  
 S = Recovery exceeded control limits for this analyte  
 N = Indicates presumptive evidence of compound

*Stu Murrell*  
 Sr. Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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**LABORATORY RESULTS**

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

3

Lab No. : 1504031-001B

Client Sample ID: Sludge Belt Press

**Sample Information:**

Type : Sludge

Origin:

Attn To :  
 Collected : 4/1/2015 10:00:00 AM  
 Received : 4/1/2015 12:40:00 PM TCLP  
 Collected By CRC99

Analytical Method: SW1311/6010C :		Prep Method: SW3005A			Prep Date: 4/6/2015 1:55:00 PM		Analyst: JA	
Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:		
Arsenic	< 1.00		1	mg/L	04/06/2015 10:16 PM	Container-01 of 02		
Barium	< 10.0		1	mg/L	04/06/2015 10:16 PM	Container-01 of 02		
Cadmium	< 0.100		1	mg/L	04/06/2015 10:16 PM	Container-01 of 02		
Chromium	< 1.00		1	mg/L	04/06/2015 10:16 PM	Container-01 of 02		
Lead	< 1.00		1	mg/L	04/06/2015 10:16 PM	Container-01 of 02		
Selenium	< 0.100		1	mg/L	04/06/2015 10:16 PM	Container-01 of 02		
Silver	< 1.00		1	mg/L	04/06/2015 10:16 PM	Container-01 of 02		

Analytical Method: SW1311/8081B :		Prep Method: SW3510C			Prep Date: 4/9/2015 7:30:00 PM		Analyst: JS	
Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:		
Chlordane	< 0.0040		1	mg/L	04/13/2015 7:06 PM	Container-01 of 02		
Endrin	< 0.00040		1	mg/L	04/13/2015 7:06 PM	Container-01 of 02		
gamma-BHC	< 0.00020		1	mg/L	04/13/2015 7:06 PM	Container-01 of 02		
Heptachlor	< 0.00020		1	mg/L	04/13/2015 7:06 PM	Container-01 of 02		
Heptachlor epoxide	< 0.00020		1	mg/L	04/13/2015 7:06 PM	Container-01 of 02		
Methoxychlor	< 0.0020		1	mg/L	04/13/2015 7:06 PM	Container-01 of 02		
Toxaphene	< 0.020		1	mg/L	04/13/2015 7:06 PM	Container-01 of 02		
Surr: Decachlorobiphenyl	66.6		1	%REC	Limit 30-150	04/13/2015 7:06 PM	Container-01 of 02	
Surr: Tetrachloro-m-xylene	75.7		1	%REC	Limit 30-150	04/13/2015 7:06 PM	Container-01 of 02	

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*Stu Murrell*  
 Sr. Project Manager

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**LABORATORY RESULTS**

Results for the samples and analytes requested

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**Sample Information:**

Type : Sludge

Lab No. : 1504031-001B

Client Sample ID: Sludge Belt Press

Origin:

**Attn To :**

Collected : 4/1/2015 10:00:00 AM  
 Received : 4/1/2015 12:40:00 PM TCLP  
 Collected By CRC99

Analytical Method: SW1311/8260C :

Prep Date: 4/6/2015 9:37:44 AM

Analyst: MF

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
1,1-Dichloroethene	< 0.010		1	mg/L	04/08/2015 2:16 PM	Container-01 of 02
1,2-Dichloroethane	< 0.010		1	mg/L	04/08/2015 2:16 PM	Container-01 of 02
1,4-Dichlorobenzene	< 0.010		1	mg/L	04/08/2015 2:16 PM	Container-01 of 02
2-Butanone	0.044	c	1	mg/L	04/08/2015 2:16 PM	Container-01 of 02
Benzene	< 0.010		1	mg/L	04/08/2015 2:16 PM	Container-01 of 02
Carbon tetrachloride	< 0.010	c	1	mg/L	04/08/2015 2:16 PM	Container-01 of 02
Chlorobenzene	< 0.010		1	mg/L	04/08/2015 2:16 PM	Container-01 of 02
Chloroform	< 0.010		1	mg/L	04/08/2015 2:16 PM	Container-01 of 02
Tetrachloroethene	< 0.010	c	1	mg/L	04/08/2015 2:16 PM	Container-01 of 02
Trichloroethene	< 0.010		1	mg/L	04/08/2015 2:16 PM	Container-01 of 02
Vinyl chloride	< 0.010		1	mg/L	04/08/2015 2:16 PM	Container-01 of 02
Surr: 1,2-dichloroethane-d4	110		1	%REC	Limit 53-183	04/08/2015 2:16 PM
Surr: 4-Bromofluorobenzene	115		1	%REC	Limit 52-124	04/08/2015 2:16 PM
Surr: Toluene-d8	109		1	%REC	Limit 60-135	04/08/2015 2:16 PM

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 Sr. Project Manager

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Date Reported : 4/14/2015

**LABORATORY RESULTS**

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**Sample Information:**

Type : Sludge

Lab No. : 1504031-001C

Client Sample ID: Sludge Belt Press

Origin:

**Attn To :**

Collected : 4/1/2015 10:00:00 AM

Received : 4/1/2015 12:40:00 PM

Collected By CRC99

NON-ACID LEACHING PREP.

<u>Analytical Method:</u> E350.1 :						
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Analyst:</u> bka <u>Container:</u>
Nitrogen, Ammonia (As N)	53.0	D	50	mg/L	04/13/2015 3:12 PM	Container-01 of 02
<u>Analytical Method:</u> E1664A :						
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Analyst:</u> JL <u>Container:</u>
Non-Polar Material (TPH)	< 5.0		1	mg/L	04/07/2015 11:51 AM	Container-01 of 02
<u>Analytical Method:</u> SM2540B :						
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Analyzed:</u>	<u>Analyst:</u> SH2 <u>Container:</u>
Solids, Total	216		1	mg/L	04/06/2015 11:29 AM	Container-01 of 02

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Sr. Project Manager

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Date Reported : 4/14/2015

**LABORATORY RESULTS**

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**Sample Information:**

Type : Sludge

Lab No. : 1504031-001D

Client Sample ID: Sludge Belt Press

Origin:

Attn To :  
 Collected : 4/1/2015 10:00:00 AM  
 Received : 4/1/2015 12:40:00 PM  
 Collected By CRC99

Analytical Method: SW6010C :		Prep Method: SW3050B			Prep Date: 4/9/2015 9:50:00 AM	Analyst: JA
Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Beryllium	< 1.6		1	mg/kg-dry	04/09/2015 4:06 PM	Container-01 of 01
Copper	950		1	mg/kg-dry	04/09/2015 4:06 PM	Container-01 of 01
Nickel	19		1	mg/kg-dry	04/09/2015 4:06 PM	Container-01 of 01
Zinc	1,200		1	mg/kg-dry	04/09/2015 4:06 PM	Container-01 of 01

Analytical Method: SW8082A :		Prep Method: SW3545A			Prep Date: 4/13/2015 10:07:04 AM	Analyst: JS
Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Aroclor 1016	< 210		1	µg/Kg-dry	04/13/2015 6:46 PM	Container-01 of 01
Aroclor 1221	< 430		1	µg/Kg-dry	04/13/2015 6:46 PM	Container-01 of 01
Aroclor 1232	< 210		1	µg/Kg-dry	04/13/2015 6:46 PM	Container-01 of 01
Aroclor 1242	< 210		1	µg/Kg-dry	04/13/2015 6:46 PM	Container-01 of 01
Aroclor 1248	< 210		1	µg/Kg-dry	04/13/2015 6:46 PM	Container-01 of 01
Aroclor 1254	< 210		1	µg/Kg-dry	04/13/2015 6:46 PM	Container-01 of 01
Aroclor 1260	< 210		1	µg/Kg-dry	04/13/2015 6:46 PM	Container-01 of 01
Surr: Decachlorobiphenyl	77.5		1	%REC Limit 30-150	04/13/2015 6:46 PM	Container-01 of 01
Surr: Tetrachloro-m-xylene	94.7		1	%REC Limit 30-150	04/13/2015 6:46 PM	Container-01 of 01

Analytical Method: SW1010A :						Analyst: GMV
Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Ignitability	>60		1	°C	04/02/2015 10:48 PM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.  
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*Stu Murrell*  
 Sr. Project Manager

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**LABORATORY RESULTS**

Results for the samples and analytes requested

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**Sample Information:**

Type : Sludge

Lab No. : 1504031-001E

Client Sample ID: Sludge Belt Press

Origin:

Attn To :  
 Collected : 4/1/2015 10:00:00 AM  
 Received : 4/1/2015 12:40:00 PM  
 Collected By CRC99

Analytical Method: SW9071B :

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Analyst: Sub Container:
Total Petroleum Hydrocarbons (SUB, See Attached)	29,500	+	1	mg/Kg	04/10/2015	Container-01 of 01

- Qualifiers: E = Value above quantitation range, Value estimated.  
 B = Found in Blank  
 D.F. = Dilution Factor D = Results for Dilution  
 H = Received/analyzed outside of analytical holding time  
 + = NYSDOH ELAP does not offer certification for this analyte / matrix / method  
 c = Calibration acceptability criteria exceeded for this analyte  
 r = Reporting limit > MDL and < LOQ, Value estimated.  
 J = Estimated value - below calibration range  
 S = Recovery exceeded control limits for this analyte  
 N = Indicates presumptive evidence of compound

*Stu Minnell*  
 Sr. Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Date Reported : 4/14/2015



# Sample Receipt Checklist

Client Name

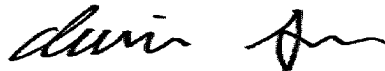
Date and Time Received: 4/1/2015 12:40:00 PM

Work Order Number: 1504031

RcptNo: 1

Received by Linda Siciliano

Completed by:



Reviewed by:



Completed Date: 4/1/2015 12:43:54 PM

Reviewed Date: 4/2/2015 3:55:24 PM

Carrier name: Client

- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Are matrices correctly identified on Chain of custody? Yes  No
- Is it clear what analyses were requested? Yes  No
- Custody seals intact on sample bottles? Yes  No  Not Present
- Samples in proper container/bottle? Yes  No
- Were correct preservatives used and noted? Yes  No  NA
- Preservative added to bottles:
- Sample Condition? Intact  Broken  Leaking
- Sufficient sample volume for indicated test? Yes  No
- Were container labels complete (ID, Pres, Date)? Yes  No
- All samples received within holding time? Yes  No
- Was an attempt made to cool the samples? Yes  No  NA
- All samples received at a temp. of > 0° C to 6.0° C? Yes  No  NA
- Response when temperature is outside of range:
- Sample Temp. taken and recorded upon receipt? Yes  No  To 2°
- Water - Were bubbles absent in VOC vials? Yes  No  No Vials
- Water - Was there Chlorine Present? Yes  No  NA
- Water - pH acceptable upon receipt? Yes  No  No Water
- Are Samples considered acceptable? Yes  No
- Custody Seals present? Yes  No
- Airbill or Sticker? Air Bil  Sticker  Not Present

Case Number:

SDG:

SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted?  Yes  No  NA Person Contacted:

Contact Mode:  Phone:  Fax:  Email:  In Person:

Client Instructions:

Date Contacted: Contacted By:

Regarding:

Comments:

CorrectiveAction:



575 Broad Hollow Road , Melville, NY 11747  
TEL: (631) 694-3040 FAX: (631) 420-8436  
NYSDOH ID#10478 [www.pacelabs.com](http://www.pacelabs.com)

WorkOrder :  
1504031

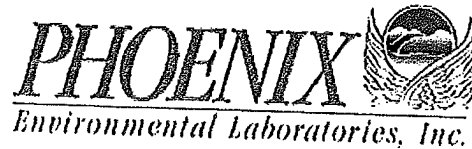
## Certifications

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STATE	CERTIFICATION #
NEW YORK	10478
NEW JERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MASSACHUSETTS	MNY026
NEW HAMPSHIRE	2987
RHODE ISLAND	LA000340
PENNSYLVANIA	68-00350

M52  
SECRET 2015

7-2015



Thursday, July 23, 2015

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

Project ID: NAUGATUCK  
Sample ID#s: BJ46312

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**  
 July 23, 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: SW  
 Analyzed by: see "By" below

Date            Time  
 07/13/15  
 07/14/15        15:33

Laboratory Data

SDG ID: GBJ46312  
 Phoenix ID: BJ46312

Project ID: NAUGATUCK  
 Client ID: SLUDGE-

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.7	1.3	mg/Kg	1	07/16/15	EK	SW6010C
Beryllium	< 0.64	0.64	mg/Kg	1	07/16/15	EK	SW6010C
Cadmium	2.10	0.64	mg/Kg	1	07/16/15	EK	SW6010C
Chromium	12.7	0.64	mg/Kg	1	07/16/15	EK	SW6010C
Copper	520	6.4	mg/Kg	10	07/16/15	EK	SW6010C
Mercury	0.55	0.14	mg/kg	1	07/15/15	RS	SW7471B
Nickel	8.49	0.64	mg/Kg	1	07/16/15	EK	SW6010C
Lead	59.9	0.64	mg/Kg	1	07/16/15	EK	SW6010C
Selenium	4.1	3.2	mg/Kg	1	07/16/15	EK	SW6010C
Zinc	482	6.4	mg/Kg	10	07/16/15	EK	SW6010C
Percent Solid	17.3	1	%				SW846-%Solid
Total Solids @ 104C	17.3	0.1	%	1	07/16/15	TM	SM2540B-97
Fixed Solids @ 500C	17.8	0.1	%	1	07/16/15	TM	E160.4
Nitrite as N	42.3	0.58	mg/kg	10	07/15/15	BS/EG	SW9056A
Nitrate as N	< 2.9	2.9	mg/kg	10	07/15/15	BS/EG	SW9056A
Organic Nitrogen	56400	230	mg/Kg	1	07/17/15	WHM	E350.1/E350.2
pH - Sludge	5.31	0.10	pH Units	1	07/14/15 20:10	DH/EG	SW9045
Nitrogen Tot Kjeldahl	95300	2600	mg/Kg	5	07/22/15	WHM	E351.1
Volatile Solids @ 500C	82.2	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	550	ug/Kg	1	07/16/15	AW	SW8082A
PCB-1221	ND	550	ug/Kg	1	07/16/15	AW	SW8082A
PCB-1232	ND	550	ug/Kg	1	07/16/15	AW	SW8082A
PCB-1242	ND	550	ug/Kg	1	07/16/15	AW	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1248	ND	550	ug/Kg	1	07/16/15	AW	SW8082A
PCB-1254	ND	550	ug/Kg	1	07/16/15	AW	SW8082A
PCB-1260	ND	550	ug/Kg	1	07/16/15	AW	SW8082A
PCB-1262	ND	550	ug/Kg	1	07/16/15	AW	SW8082A
PCB-1268	ND	550	ug/Kg	1	07/16/15	AW	SW8082A
<b>QA/QC Surrogates</b>							
% DCBP	79		%	1	07/16/15	AW	30 - 150 %
% TCMX	58		%	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 23, 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 23, 2015

## QA/QC Data

SDG I.D.: GBJ46312

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 313777 (mg/kg), QC Sample No: BJ45962 (BJ46312)													
<u>ICP Metals - Soil</u>													
Arsenic	BRL	0.66	2.2	2.32	NC	93.8	94.4	0.6	89.4	91.4	2.2	75 - 125	30
Beryllium	BRL	0.26	0.60	0.59	NC	96.3	99.2	3.0	94.8	96.5	1.8	75 - 125	30
Cadmium	BRL	0.33	<0.34	<0.35	NC	92.9	96.0	3.3	88.6	90.3	1.9	75 - 125	30
Chromium	BRL	0.33	22.8	21.8	4.50	98.7	102	3.3	96.5	99.0	2.6	75 - 125	30
Copper	BRL	0.33	14.3	14.5	1.40	100	102	2.0	108	107	0.9	75 - 125	30
Lead	BRL	0.33	7.33	7.41	1.10	92.1	96.0	4.1	88.3	91.1	3.1	75 - 125	30
Nickel	BRL	0.33	19.5	18.8	3.70	96.3	98.7	2.5	90.5	94.2	4.0	75 - 125	30
Selenium	BRL	1.3	<1.4	<1.4	NC	80.3	83.3	3.7	82.8	83.6	1.0	75 - 125	30
Zinc	0.46	0.33	44.0	42.8	2.80	95.6	98.7	3.2	91.6	98.2	7.0	75 - 125	30
QA/QC Batch 313829 (mg/kg), QC Sample No: BJ45962 (BJ46312)													
Mercury - Soil	BRL	0.06	<0.03	<0.03	NC	98.1	99.3	1.2	102	101	1.0	70 - 130	30
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.													



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

# QA/QC Report

July 23, 2015

## QA/QC Data

SDG I.D.: GBJ46312

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 313870 (PH), QC Sample No: BJ46103 (BJ46312)													
pH - Soil			5.08	4.98	2.00	99.7							
QA/QC Batch 313843 (), QC Sample No: BJ46271 (BJ46312)													
Total Solids	BRL	0.1	5.67	5.79	2.10	100						85 - 115	20
QA/QC Batch 313913 (mg/L), QC Sample No: BJ46704 (BJ46312)													
Nitrate as Nitrogen	BRL	0.05	<0.05	<0.05	NC	94.3						85 - 115	30
Nitrite as Nitrogen	BRL	0.01	<0.01	<0.01	NC	95.5			100			85 - 115	20
QA/QC Batch 314005 (mg/L), QC Sample No: BJ47238 (BJ46312)													
Nitrogen Tot Kjeldahl	BRL	0.10	0.85	0.82	3.60	85.6			99.5			85 - 115	20
QA/QC Batch 314478 (mg/L), QC Sample No: BJ59717 (BJ46312)													
Nitrogen Tot Kjeldahl	BRL	0.10	2.44	2.7	10.1	90.7			104			85 - 115	20
									NC			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**

July 23, 2015

QA/QC Data

SDG I.D.: GBJ46312

Parameter	BIK		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
QA/QC Batch 313893 (ug/Kg), QC Sample No: BJ45310 (BJ46312)										
<b>Polychlorinated Biphenyls - Sludge</b>										
PCB-1016	ND	13								
PCB-1221	ND	13	78	74	5.3				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							40 - 140	30
PCB-1262	ND	13	88	87	1.1				40 - 140	30
PCB-1268	ND	13							40 - 140	30
% DCBP (Surrogate Rec)	94	%							40 - 140	30
% TCMX (Surrogate Rec)	72	%	105	101	3.9				30 - 150	30
			81	75	7.7				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*  
 Phyllis Shiller, Laboratory Director  
 July 23, 2015

Thursday, July 23, 2015

Criteria: None

State: CT

Sample No    Acode

Phoenix Analyte

Criteria

\*\*\* No Data to Display \*\*\*

Result

RL

Criteria

RL  
Criteria

Analysis  
Units

# Sample Criteria Exceedences Report

## GBJ46312 - VEOLIANA

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

Cooler: Yes  No   
 Coolant: PK  ICE  No   
 Temp / ° C Pg of

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: 3rd Qtr 2015  
 Phone #: 203-723-1433 ext 2004  
 Fax #: 203-723-8539

Project P.O.: 3rd Qtr 1

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification  
 Samplers Signature: *[Signature]* T. Deller Date: 7-14-15

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

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
16318	Sludge	SL	7/13/15	N/A


Analysis Request

Analysis Request	Fixed Solids, Total Solids	Fixed Solids, Vol Solids	Fixed Solids, Zinc	Fixed Solids, Lead	Fixed Solids, Mercury	Fixed Solids, Cadmium	Fixed Solids, Nickel	Fixed Solids, Chromium	Fixed Solids, Copper	Fixed Solids, Selenium	Fixed Solids, PCBs	Fixed Solids, TKN	Fixed Solids, TOC	Fixed Solids, TSS	Fixed Solids, TSS (2000)	Fixed Solids, TSS (1000)	Fixed Solids, TSS (500)	Fixed Solids, TSS (250)	Fixed Solids, TSS (125)	Fixed Solids, TSS (62.5)	Fixed Solids, TSS (31.25)	Fixed Solids, TSS (15.625)	Fixed Solids, TSS (7.8125)	Fixed Solids, TSS (3.90625)	Fixed Solids, TSS (1.953125)	Fixed Solids, TSS (0.9765625)	Fixed Solids, TSS (0.48828125)	Fixed Solids, TSS (0.244140625)	Fixed Solids, TSS (0.1220703125)	Fixed Solids, TSS (0.06103515625)	Fixed Solids, TSS (0.030517578125)	Fixed Solids, TSS (0.0152587890625)	Fixed Solids, TSS (0.00762939453125)	Fixed Solids, TSS (0.003814697265625)	Fixed Solids, TSS (0.0019073486328125)	Fixed Solids, TSS (0.00095367431640625)	Fixed Solids, TSS (0.000476837158203125)	Fixed Solids, TSS (0.0002384185791015625)	Fixed Solids, TSS (0.00011920928955078125)	Fixed Solids, TSS (0.000059604644775390625)	Fixed Solids, TSS (0.0000298023223876953125)	Fixed Solids, TSS (0.00001490116119384765625)	Fixed Solids, TSS (0.000007450580596923828125)	Fixed Solids, TSS (0.0000037252902984619140625)	Fixed Solids, TSS (0.00000186264514923095703125)	Fixed Solids, TSS (0.000000931322574615478515625)	Fixed Solids, TSS (0.0000004656612873077392578125)	Fixed Solids, TSS (0.00000023283064365386962890625)	Fixed Solids, TSS (0.000000116415321826934814453125)	Fixed Solids, TSS (0.0000005820766091346724072265625)	Fixed Solids, TSS (0.00000029103830456733620361328125)	Fixed Solids, TSS (0.000000145519152283668101806640625)	Fixed Solids, TSS (0.0000000727595761418340509033203125)	Fixed Solids, TSS (0.00000003637978807091702545166015625)	Fixed Solids, TSS (0.000000018189894035458512725830078125)	Fixed Solids, TSS (0.0000000090949470177292563629150390625)	Fixed Solids, TSS (0.00000000454747350886462818145751953125)	Fixed Solids, TSS (0.000000002273736754432314090728759765625)	Fixed Solids, TSS (0.0000000011368683772161570454543798828125)	Fixed Solids, TSS (0.00000000056843418860807852272718994140625)	Fixed Solids, TSS (0.000000000284217094304039261363594970703125)	Fixed Solids, TSS (0.0000000001421085471520196306817974853515625)	Fixed Solids, TSS (0.000000000071054273576009815340898742678125)	Fixed Solids, TSS (0.0000000000355271367880049076704493713390625)	Fixed Solids, TSS (0.0000000000177635683940024538352246856953125)	Fixed Solids, TSS (0.00000000000888178419700122691761234284765625)	Fixed Solids, TSS (0.000000000004440892098500613458806171423828125)	Fixed Solids, TSS (0.0000000000022204460492503067292940857119140625)	Fixed Solids, TSS (0.0000000000011102230246251533646470428559765625)	Fixed Solids, TSS (0.00000000000055511151231257673232352142798828125)	Fixed Solids, TSS (0.000000000000277555756156338366161161463994140625)	Fixed Solids, TSS (0.0000000000001387778780781691830805807319970703125)	Fixed Solids, TSS (0.00000000000006938893903908459154029036598828125)	Fixed Solids, TSS (0.000000000000034694469519542295770145182994140625)	Fixed Solids, TSS (0.0000000000000173472347597711478850725914970703125)	Fixed Solids, TSS (0.00000000000000867361737988557394253629598828125)	Fixed Solids, TSS (0.00000000000000433680868994278697126814798828125)	Fixed Solids, TSS (0.00000000000000216840434497139348563409598828125)	Fixed Solids, TSS (0.00000000000000108420217248569674271704798828125)	Fixed Solids, TSS (0.00000000000000054210108624284837135358994140625)	Fixed Solids, TSS (0.000000000000000271050543121424185676794970703125)	Fixed Solids, TSS (0.0000000000000001355252715607120928383974853515625)	Fixed Solids, TSS (0.000000000000000067762635780356046419198742678125)	Fixed Solids, TSS (0.000000000000000033881317890178023209598828125)	Fixed Solids, TSS (0.000000000000000016940658945089011604798828125)	Fixed Solids, TSS (0.0000000000000000084703294725445058023994140625)	Fixed Solids, TSS (0.00000000000000000423516473627225290119970703125)	Fixed Solids, TSS (0.00000000000000000211758236813612645098828125)	Fixed Solids, TSS (0.000000000000000001058791184068063225494140625)	Fixed Solids, TSS (0.00000000000000000052939559203403161274853515625)	Fixed Solids, TSS (0.00000000000000000026469779601701580637198828125)	Fixed Solids, TSS (0.00000000000000000013234889800850790318994140625)	Fixed Solids, TSS (0.000000000000000000066174449004254501598828125)	Fixed Solids, TSS (0.0000000000000000000330872245021272507994140625)	Fixed Solids, TSS (0.000000000000000000016543612251063625398828125)	Fixed Solids, TSS (0.000000000000000000008271806125531812698828125)	Fixed Solids, TSS (0.0000000000000000000041359030627659063494140625)	Fixed Solids, TSS (0.000000000000000000002067951531382953174853515625)	Fixed Solids, TSS (0.00000000000000000000103397576569147687198828125)	Fixed Solids, TSS (0.0000000000000000000005169878828458388398828125)	Fixed Solids, TSS (0.0000000000000000000002584939414229194198828125)	Fixed Solids, TSS (0.0000000000000000000001292469707114597098828125)	Fixed Solids, TSS (0.00000000000000000000006462348535572985498828125)	Fixed Solids, TSS (0.0000000000000000000000323117426778649274853515625)	Fixed Solids, TSS (0.0000000000000000000000161558713389324637198828125)	Fixed Solids, TSS (0.0000000000000000000000080779356694322318994140625)	Fixed Solids, TSS (0.00000000000000000000000403896783471611598828125)	Fixed Solids, TSS (0.00000000000000000000000201948391735805798828125)	Fixed Solids, TSS (0.00000000000000000000000100974195867902898828125)	Fixed Solids, TSS (0.000000000000000000000000504870979339514498828125)	Fixed Solids, TSS (0.00000000000000000000000025243548966975724853515625)	Fixed Solids, TSS (0.0000000000000000000000001262177448348886124853515625)	Fixed Solids, TSS (0.00000000000000000000000006310887241744443124853515625)	Fixed Solids, TSS (0.00000000000000000000000003155443620872221624853515625)	Fixed Solids, TSS (0.00000000000000000000000001577721810436110624853515625)	Fixed Solids, TSS (0.000000000000000000000000007888609052180553124853515625)	Fixed Solids, TSS (0.000000000000000000000000003944304526090276624853515625)	Fixed Solids, TSS (0.0000000000000000000000000019721522630451383124853515625)	Fixed Solids, TSS (0.00000000000000000000000000098607613152256915624853515625)	Fixed Solids, TSS (0.00000000000000000000000000049303806576127578124853515625)	Fixed Solids, TSS (0.00000000000000000000000000024651903288063789124853515625)	Fixed Solids, TSS (0.00000000000000000000000000012325951644031895624853515625)	Fixed Solids, TSS (0.00000000000000000000000000006162975822015978124853515625)	Fixed Solids, TSS (0.00000000000000000000000000003081487911007989124853515625)	Fixed Solids, TSS (0.000000000000000000000000000015407439555039945624853515625)	Fixed Solids, TSS (0.0000000000000000000000000000077037197775199728124853515625)	Fixed Solids, TSS (0.00000000000000000000000000000385185988875998640624853515625)	Fixed Solids, TSS (0.000000000000000000000000000001925929944379993203124853515625)	Fixed Solids, TSS (0.0000000000000000000000000000009629649721899966015624853515625)	Fixed Solids, TSS (0.00000000000000000000000000000048148248609499830078124853515625)	Fixed Solids, TSS (0.00000000000000000000000000000024074124304749966015624853515625)	Fixed Solids, TSS (0.0000000000000000000000000000001203706215237499330078124853515625)	Fixed Solids, TSS (0.000000000000000000000000000000060185310768749966015624853515625)	Fixed Solids, TSS (0.00000000000000000000000000000003009265538437499330078124853515625)	Fixed Solids, TSS (0.00000000000000000000000000000001504632769218749966015624853515625)	Fixed Solids, TSS (0.0000000000000000000000000000000075231638460937499330078124853515625)	Fixed Solids, TSS 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(0.00000000000000000000000000000000000367341984672545136749966015624853515625)	Fixed Solids, TSS (0.0000000000000000000000000000000000018367099233627256837499330078124853515625)	Fixed Solids, TSS (0.000000000000000000000000000000000000918354961681362843749966015624853515625)	Fixed Solids, TSS (0.00000000000000000000000000000000000045917748084068142187499330078124853515625)	Fixed Solids, TSS (0.00000000000000000000000000000000000022958874042034071093749966015624853515625)	Fixed Solids, TSS (0.0000000000000000000000000000000000001147943702101703554687499330078124853515625)	Fixed Solids, TSS (0.0000000000000000000000000000000000000573971851050851777343749966015624853515625)	Fixed Solids, TSS (0.00000000000000000000000000000000000002869859255254258887499330078124853515625)	Fixed Solids, TSS (0.00000000000000000000000000000000000001434929627627129443749966015624853515625)	Fixed Solids, TSS (0.0000000000000000000000000000000000000071746481381357222187499330078124853515625)	Fixed Solids, TSS (0.000000000000000000000000000000000000003587324069067861093749966015624853515625)	Fixed Solids, TSS (0.00000000000000000000000000000000000000179366203453393054687499330078124853515625)	Fixed Solids, TSS (0.00000000000000000000000000000000000000089683101726696527343749966015624853515625)	Fixed Solids, TSS (0.00000000000000000000000000000000000000044841550863347761093749966015624853515625)	Fixed Solids, TSS (0.0000000000000000000000000000000000000002242077543167388054687499330078124853515625)	Fixed Solids, TSS (0.0000000000000000000000000000000000000001121038771583694027343749966015624853515625)	Fixed Solids, TSS (0.0056051938579170701093749966015624853515625)	Fixed Solids, TSS (0.002802596928958535054687499330078124853515625)	Fixed Solids, TSS (0.001401298464479267527343749966015624853515625)	Fixed Solids, TSS (0.000700649232239633761093749966015624853515625)	Fixed Solids, TSS (0.000350324616119816877343749966015624853515625)	Fixed Solids, TSS (0.00017516230805990843887499330078124853515625)	Fixed Solids, TSS (0.008758115402995421943749966015624853515625)	Fixed Solids, TSS (0.00437905770149771093749966015624853515625)	Fixed Solids, TSS (0.002189528850748854687499330078124853515625)	Fixed Solids, TSS (0.001094764425374427343749966015624853515625)	Fixed Solids, TSS (0.00054738221268721367499330078124853515625)	Fixed Solids, TSS (0.00027369110634361093749966015624853515625)	Fixed Solids, TSS (0.0001368455531718054687499330078124853515625)	Fixed Solids, TSS (0.0068422776585927343749966015624853515625)	Fixed Solids, TSS (0.003421138829296367499330078124853515625)	Fixed Solids, TSS (0.001710569414648183749966015624853515625)	Fixed Solids, TSS (0.000855284707324091093749966015624853515625)	Fixed Solids, TSS (0.0004276423536620454687499330078124853515625)	Fixed Solids, TSS (0.000213821176831027343749966015624853515625)	Fixed Solids, TSS (0.0001069105884156361093749966015624853515625)	Fixed Solids, TSS (0.0053455294207818054687499330078124853515625)	Fixed Solids, TSS (0.0026727647103909027343749966015624853515625)	Fixed Solids, TSS (0.0001336382355195451367499330078124853515625)	Fixed Solids, TSS (0.00
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M21

4



**PHOENIX**  
*Environmental Laboratories, Inc.*

Thursday, April 30, 2015

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

Project ID: NAUGATUCK  
Sample ID#s: BJ06960

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**  
 April 30, 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  
 04/23/15  
 04/23/15                      16:01

Laboratory Data

SDG ID: GBJ06960  
 Phoenix ID: BJ06960

Project ID: NAUGATUCK  
 Client ID: SLUDGE

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.3	1.1	mg/Kg	1	04/24/15	EK	SW6010C
Beryllium	< 0.56	0.56	mg/Kg	1	04/24/15	EK	SW6010C
Cadmium	0.73	0.56	mg/Kg	1	04/24/15	EK	SW6010C
Chromium	20.2	0.56	mg/Kg	1	04/24/15	EK	SW6010C
Copper	662	5.6	mg/Kg	10	04/24/15	EK	SW6010C
Mercury	1.05	0.15	mg/kg	1	04/24/15	RS	SW7471B
Nickel	9.92	0.56	mg/Kg	1	04/24/15	EK	SW6010C
Lead	54.1	0.56	mg/Kg	1	04/24/15	EK	SW6010C
Selenium	7.0	2.8	mg/Kg	1	04/24/15	EK	SW6010C
Zinc	533	5.6	mg/Kg	10	04/24/15	EK	SW6010C
Percent Solid	17.8	1	%				SW846-%Solid
Total Solids @ 104C	17.8	0.1	%	1	04/27/15	KH/CL	SM2540B-97
Fixed Solids @ 500C	11.7	0.1	%	1	04/27/15	KH/CL	E160.4
pH - Sludge	5.96	0.10	pH Units	1	04/23/15 19:30	DH/KDB	SW9045
Volatile Solids @ 500C	88.3	0.1	%	1	04/27/15	KH/CL	SM2540E/E160.4-9
Mercury Digestion	Completed				04/24/15	I/I	SW7471B
Sludge Ext. for PCB	Completed				04/24/15	M/M	SW3550C
Total Metals Digest	Completed				04/23/15	CB/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	520	ug/Kg	1	04/25/15	AW	SW8082A
PCB-1221	ND	520	ug/Kg	1	04/25/15	AW	SW8082A
PCB-1232	ND	520	ug/Kg	1	04/25/15	AW	SW8082A
PCB-1242	ND	520	ug/Kg	1	04/25/15	AW	SW8082A
PCB-1248	ND	520	ug/Kg	1	04/25/15	AW	SW8082A
PCB-1254	ND	520	ug/Kg	1	04/25/15	AW	SW8082A
PCB-1260	ND	520	ug/Kg	1	04/25/15	AW	SW8082A
PCB-1262	ND	520	ug/Kg	1	04/25/15	AW	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1268	ND	520	ug/Kg	1	04/25/15	AW	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	64		%	1	04/25/15	AW	30 - 150 %
% TCMX	45		%	1	04/25/15	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

April 30, 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

April 30, 2015

## QA/QC Data

SDG I.D.: GBJ06960

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 305737 (mg/kg), QC Sample No: BJ06310 (BJ06960)													
Mercury - Soil	BRL	0.06	0.11	0.08	NC	112	111	0.9	82.7	134	47.3	70 - 130	30
Comment:													m,r

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

QA/QC Batch 305667 (mg/kg), QC Sample No: BJ06628 (BJ06960)

### ICP Metals - Soil

Arsenic	BRL	0.69	1.9	2.01	NC	105	97.5	7.4	96.7	95.5	1.2	75 - 125	30
Beryllium	BRL	0.28	0.27	0.30	NC	107	99.3	7.5	102	99.7	2.3	75 - 125	30
Cadmium	BRL	0.35	<0.33	<0.36	NC	109	105	3.7	100	98.2	1.8	75 - 125	30
Chromium	BRL	0.35	9.95	9.83	1.20	107	102	4.8	106	104	1.9	75 - 125	30
Copper	BRL	0.35	13.2	14.0	5.90	107	100	6.8	110	109	0.9	75 - 125	30
Lead	0.36	0.35	5.93	6.13	3.30	106	98.6	7.2	99.8	98.0	1.8	75 - 125	30
Nickel	BRL	0.35	10.3	10.5	1.90	108	104	3.8	103	99.4	3.6	75 - 125	30
Selenium	BRL	1.4	<1.3	<1.5	NC	101	93.9	7.3	84.0	83.5	0.6	75 - 125	30
Zinc	BRL	0.35	18.6	21.1	12.6	108	98.7	9.0	106	101	4.8	75 - 125	30

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



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**QA/QC Report**

April 30, 2015

QA/QC Data

SDG I.D.: GBJ06960

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 305914 (), QC Sample No: BJ06958 (BJ06960)													
Total Solids	BRL	0.1	22.4	21.5	4.10	100						85 - 115	30
QA/QC Batch 305755 (PH), QC Sample No: BJ07201 (BJ06960)													
pH - Soil			8.07	8.16	1.10	98.6						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

April 30, 2015

## QA/QC Data

SDG I.D.: GBJ06960

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 305648 (ug/Kg), QC Sample No: BJ05600 (BJ06960)										
<b>Polychlorinated Biphenyls - Sludge</b>										
PCB-1016	ND	13	68	53	24.8				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							40 - 140	30
PCB-1262	ND	13	89	69	25.3				40 - 140	30
PCB-1268	ND	13							40 - 140	30
% DCBP (Surrogate Rec)	98	%	104	80	26.1				40 - 140	30
% TCMX (Surrogate Rec)	72	%	75	58	25.6				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*  
 Phyllis Shiller, Laboratory Director  
 April 30, 2015

Thursday, April 30, 2015

Criteria: None

State: CT

SampNo Acode Phoenix Analyte

Criteria

Result

RL

Criteria

RL  
Criteria

Analysis  
Units

# Sample Criteria Exceedences Report

GBJ06960 - VEOLIANA

\*\*\* 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.



Coolant: Yes  No   
 Cooler: Yes  No   
 Temp: °C Pg of

**CHAIN OF CUSTODY RECORD**

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



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

Project: Naugatuck  
 Report to: Tom Deller  
 Invoice to:  
 Phone #: 203-723-1433 ext 2004  
 Fax #: 203-723-5539

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

This section MUST be completed with Bottle Quantities.

Sampler's Signature: *[Signature]* Date: 4-23-15

Matrix Codes:  
 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

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
06960	Sludge	SL	4/23/15	N/A

Analysis Request

Asenic, Barium, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, pH, PCBs, Selenium, Triad solids, Total Solids, Vanille solids, Zinc	X	X	X	X	X
40 ml VOA Vial ( ) oz					
GL soil container ( ) oz					
GL VOA Vial ( ) oz					
GL Amber 100ml ( ) oz					
PL H2SO4 (X) 250ml ( ) 500ml (X) 100-ml					
PL H2SO4 (X) 250ml ( ) 500ml (X) 100-ml					
PL H2O 250ml					
Bacteria Bottle					

RI	CI	MA	Data Format
<input type="checkbox"/> Direct Exposure (Residential)	<input type="checkbox"/> RCP Cert	<input type="checkbox"/> MCP Certification	<input type="checkbox"/> Excel
<input type="checkbox"/> GW	<input type="checkbox"/> GW Protection	<input type="checkbox"/> GW-1	<input type="checkbox"/> PDF
<input type="checkbox"/> Other	<input type="checkbox"/> SW Protection	<input type="checkbox"/> GW-2	<input type="checkbox"/> GIS/Key
	<input type="checkbox"/> GA Mobility	<input type="checkbox"/> GW-3	<input type="checkbox"/> EQUIS
	<input type="checkbox"/> GB Mobility	<input type="checkbox"/> S-1	<input type="checkbox"/> Other
	<input type="checkbox"/> Residential DEC	<input type="checkbox"/> S-2	<input type="checkbox"/> Data Package
	<input type="checkbox"/> IC DEC	<input type="checkbox"/> S-3	<input type="checkbox"/> Tier II Checklist
	<input type="checkbox"/> Other	<input type="checkbox"/> MWRA eSMART	<input type="checkbox"/> Full Data Package*
		<input type="checkbox"/> Other	<input type="checkbox"/> Phoenix Std Report

Relinquished by: *[Signature]* Accepted by: *[Signature]*  
 Date: 4/23/15 1:35  
 Date: 4/23/15 1:00

Comments, Special Requirements or Regulations:

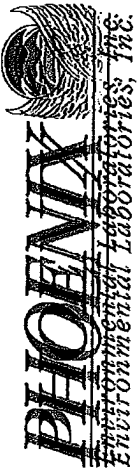
Glen Cove - 2nd Qtr

State where samples were collected: \_\_\_\_\_

\* SURCHARGE APPLIES

# 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**



Coolant: Yes  No   
 Cooler: IPK  ICE   
 Temp °C Pg of  
 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:  
 Phone #: 203-723-1433 ext. 2004  
 Fax #: 203-723-5539

Project P.O.:

This section MUST be completed with Bottle Quantities.

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request
	Sludge	SL	4/23/15	N/A	Asenic, Barium, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, pH, PCBs, Selenium, Trihalo solids, Total Solids, Volatile solids, Zinc
					40 ml VOA Vial (x) 1 ea (x) 1 HCl 40 ml VOA Vial (x) 1 ea (x) 1 HCl GL Soil container (x) 8 (oz) GL Soil container (x) 1 H2O GL Amber 1000ml (x) 1 ea (x) 1 HCl PL H2SO4 (x) 1 250ml (x) 1 500ml (x) 100-ml PL HNO3 250ml Bacteria Bottle

Refinished by: [Signature] Accepted by: [Signature]

Date: 4/23/15 Time: 1:35

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

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

RI:  Direct Exposure (Residential)  
 GW  
 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

\* SURCHARGE APPLIES

State where samples were collected: \_\_\_\_\_

Comments, Special Requirements or Regulations:  
 Glen Cove - 2nd Qtr