

**REPORT OF ANALYTICAL RESULTS**

**NETLAB Case Number B0514-21D**

Prepared for:

Attn: Wes Plummer  
Synagro  
15 Cumberland Hill Rd.  
Woonsocket, RI 02895

Report Date: May 15, 2015



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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 14, 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 is B0514-21D.

Custody records are included in this report.

**TABLE I, Samples Submitted**

Sample ID	Date Sampled	Matrix	Analysis Requested
Groton City	5/14/2015	Other	Table II

**TABLE II, Analysis and Methods**

ANALYSIS	PREPARATION METHOD	DETERMINATIVE METHOD
Total Metals		
Selenium	3050B	6010C

These methods are documented in:

*Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, USEPA/OSW.*

## **CASE NARRATIVE**

The sample was received at 2 Deg. C. All analyses were performed within EPA designated holding-times. Procedure calibration checks required by the designated protocols were within control limits.

## **METALS RESULTS**

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Metals Analysis Department certifies that the results included in this section have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

New England Testing Laboratory, Inc.

METALS RESULTS



Case Number: B0514-21D  
 Sample ID: [REDACTED]  
 Date collected: 5/14/15  
 Matrix: SOLID  
 Solids, %: 5.76 SJC/AM  
 Sample Type: Total

		Preparative	Analytical		Reporting		Date of	Date
Parameter	CAS Number	Method	Method	Result	Limit	Units	Preparation	Analyzed
Selenium	7782-49-2	3050B	6010C	ND	5.77	mg/kg	5/15/15	5/15/15

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Sample ID: Preparation Blank  
 Matrix: SOIL  
 Solids, %: 100 SJC/AM  
 Sample Type: Total

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Units	Date of Preparation	Date Analyzed
Selenium	7782-49-2	3050B	6010C	ND	0.67	mg/kg	5/15/15	5/15/15

ND indicates Not Detected.

All results are reported on a dry weight basis.

## LABORATORY CONTROL SAMPLE RECOVERY

Internal

Parameter	True Value	Result	Units	Recovery, %	LCL, %	UCL, %	Date Analyzed
Selenium	20.0	19.3	mg/kg	97	85	115	5/15/15

New England Testing Laboratory, Inc.

BOSIH-21D  
 \* 7/21/2016

NEW ENGLAND TESTING LABORATORY, INC.  
 1254 Douglas Avenue  
 North Providence, RI 02904  
 1-888-863-8522

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME/LOCATION		PRESERVATIVE				REMARKS
CLIENT		NO. OF CONTAINERS		OTHER	LOS	SCMCD		
REPORT TO:	INVOICE TO:	DATE	TIME	GRA B	SAMPLE I.D.	DATE/TIME	LABORATORY REMARKS:	
Woonsocket	Syngro	5/14/15			BRN Ford WWT#	5/14/15 16:40	Temp. received: 20C	
		5/14/15			Mystic WPCF	5/14/15 17:20	Cooled <input checked="" type="checkbox"/>	
		5/14/15			Pawcatuck WPCF			
		5/14/15			Groton City			
		5/14/15			Stonington (Raw Sludge)			
Sampled by: (Signature)		Date/Time		Received by: (Signature)		Date/Time	Special Instructions:	
<i>[Signature]</i>		5/14/15		<i>[Signature]</i>		5/14/15 16:40	List Specific Detection Limit Requirements:	
Relinquished by: (Signature)		Date/Time		Received for Laboratory by: (Signature)		5/14/15 17:20	Turnaround (Business Days) 24 hours	
<i>[Signature]</i>		5/14/15 17:20		<i>[Signature]</i>				

\*\*Netlab subcontracts the following tests: Radiologicals, Radon, Asbestos, UCMRs, Perchlorate, Bromate, Bromide, Sieve, Salmonella, Carbamates



4-20-15

M38



Friday, April 17, 2015

Attn: Mr. Mike Madden  
SYNAGRO (NHRLP)  
345 East Shore Parkway  
New Haven, CT 06512

Project ID: NPDES  
Sample ID#s: BJ00840

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 17, 2015

FOR: Attn: Mr. Mike Madden  
 SYNAGRO (NHRLP)  
 345 East Shore Parkway  
 New Haven, CT 06512

## Sample Information

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

## Custody Information

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

## Date

04/09/15  
 04/10/15

## Time

8:00  
 15:04

## Laboratory Data

SDG ID: GBJ00840  
 Phoenix ID: BJ00840

Project ID: NPDES  
 Client ID: [REDACTED] 2015 NPDES

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	< 5.6	5.6	mg/Kg	1	04/11/15	LK	SW6010C
Beryllium	< 2.8	2.8	mg/Kg	1	04/11/15	LK	SW6010C
Cadmium	< 2.8	2.8	mg/Kg	1	04/11/15	LK	SW6010C
Chromium	20.8	2.8	mg/Kg	1	04/11/15	LK	SW6010C
Copper	910	2.8	mg/Kg	1	04/11/15	LK	SW6010C
Mercury	0.57	0.17	mg/kg	1	04/13/15	RS	SW7471B
Nickel	21.9	2.8	mg/Kg	1	04/11/15	LK	SW6010C
Lead	42.8	2.8	mg/Kg	1	04/11/15	LK	SW6010C
Zinc	828	2.8	mg/Kg	1	04/11/15	LK	SW6010C
Percent Solid	3.93	1	%				SW846-%Solid
Total Solids @ 104C	3.93	0.1	%	1	04/14/15	KH	SM2540B-97
Fixed Solids @ 500C	18.1	0.1	%	1	04/14/15	KH	E160.4
pH - Sludge	5.95	0.10	pH Units	1	04/10/15 23:30	DH/KDB	SW9045
Volatile Solids @ 500C	81.9	0.1	%	1	04/14/15	KH	SM2540E/E160.4-9
Mercury Digestion	Completed				04/13/15	I/I	SW7471B
Sludge Ext. for PCB	Completed				04/13/15	M/M	SW3550C
Total Metals Digest	Completed				04/10/15	CB/AG	SW3050B

## Polychlorinated Biphenyls

PCB-1016	ND	2400	ug/Kg	1	04/14/15	AW	SW8082A
PCB-1221	ND	2400	ug/Kg	1	04/14/15	AW	SW8082A
PCB-1232	ND	2400	ug/Kg	1	04/14/15	AW	SW8082A
PCB-1242	ND	2400	ug/Kg	1	04/14/15	AW	SW8082A
PCB-1248	ND	2400	ug/Kg	1	04/14/15	AW	SW8082A
PCB-1254	ND	2400	ug/Kg	1	04/14/15	AW	SW8082A
PCB-1260	ND	2400	ug/Kg	1	04/14/15	AW	SW8082A
PCB-1262	ND	2400	ug/Kg	1	04/14/15	AW	SW8082A
PCB-1268	ND	2400	ug/Kg	1	04/14/15	AW	SW8082A

Project ID: NPDES

Phoenix I.D.: BJ00840

Client ID: ██████████ 2015 NPDES

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<b><u>QA/QC Surrogates</u></b>							
% DCBP	90		%	1	04/14/15	AW	30 - 150 %
% TCMX	71		%	1	04/14/15	AW	30 - 150 %

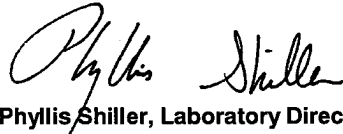
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

**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**

**April 17, 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

**QA/QC Report**

April 17, 2015

**QA/QC Data**

SDG I.D.: GBJ00840

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 304268 (mg/kg), QC Sample No: BH99667 (BJ00840)													
<b><u>ICP Metals - Soil</u></b>													
Arsenic	BRL	0.60	1.1	0.93	NC	94.6	94.6	0.0	94.3	95.3	1.1	75 - 125	30
Beryllium	BRL	0.24	0.28	<0.28	NC	96.4	98.6	2.3	96.9	97.6	0.7	75 - 125	30
Cadmium	BRL	0.30	<0.34	<0.35	NC	97.8	111	12.6	96.4	97.0	0.6	75 - 125	30
Chromium	BRL	0.30	8.20	7.02	15.5	98.3	102	3.7	101	103	2.0	75 - 125	30
Copper	BRL	0.30	12.9	9.58	29.5	96.1	100	4.0	105	110	4.7	75 - 125	30
Lead	BRL	0.30	5.79	4.83	18.1	99.8	99.8	0.0	97.5	98.1	0.6	75 - 125	30
Nickel	BRL	0.30	5.19	4.49	14.5	96.9	106	9.0	99.4	100	0.6	75 - 125	30
Zinc	BRL	0.30	18.3	15.2	18.5	95.3	105	9.7	97.3	101	3.7	75 - 125	30

QA/QC Batch 304352 (mg/kg), QC Sample No: BJ00952 (BJ00840)

Mercury - Soil	BRL N	0.06	0.18	0.21 N	15.4	107 N	110 N	2.8	111			70 - 130	30
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**Comment:**

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



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**QA/QC Report**

April 17, 2015

**QA/QC Data**

SDG I.D.: GBJ00840

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 304362 (), QC Sample No: BJ00141 (BJ00840)													
Total Solids		BRL	0.1	21.2	20.8	1.90	100					85 - 115	30
QA/QC Batch 304315 (PH), QC Sample No: BJ00839 (BJ00840)													
pH - Sludge			5.68	5.71	0.50	98.1							



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

# QA/QC Report

April 17, 2015

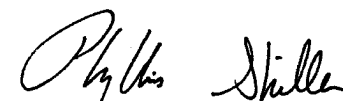
## QA/QC Data

SDG I.D.: GBJ00840

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
QA/QC Batch 304022 (ug/Kg), QC Sample No: BH92773 (BJ00840)										
<b><u>Polychlorinated Biphenyls - Sludge</u></b>										
PCB-1016	ND	100	66	71	7.3				40 - 140	30
PCB-1221	ND	100							40 - 140	30
PCB-1232	ND	100							40 - 140	30
PCB-1242	ND	100							40 - 140	30
PCB-1248	ND	100							40 - 140	30
PCB-1254	ND	100							40 - 140	30
PCB-1260	ND	100	79	86	8.5				40 - 140	30
PCB-1262	ND	100							40 - 140	30
PCB-1268	ND	100							40 - 140	30
% DCBP (Surrogate Rec)	94	%	95	101	6.1				30 - 150	30
% TCMX (Surrogate Rec)	75	%	75	72	4.1				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 17, 2015

Friday, April 17, 2015

Criteria: None

State: CT

## Sample Criteria Exceedences Report

GBJ00840 - SYN-NH

Page 1 of 1

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.

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**CHAIN OF CUSTODY RECORD**

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

Temp 6 Pg of 10  
 Data Delivery:  
 Fax # \_\_\_\_\_  
 Email: mmadden@synagro.com

Customer: SYNAGRO (NHRLP) Project: NPDES  
 Address: 345 East Shore Parkway Report to: Mike Madden  
New Haven, CT 06512 Invoice to: Accounts Payable

Project P.O.: \_\_\_\_\_  
 Phone #: 203-469-0402  
 Fax #: 203-469-0418

Sampler's Signature: [Signature] Date: 4-9-15  
 Client Sample Information - Identification

Matrix Code:  
 DW=drinking water \$=soil/solid O=oil  
 GW=groundwater SL=sludge A=air X=other  
 Customer Sample Identification: [Redacted]  
 Phoenix Sample #: 00840  
 Date Sampled: 4/8/15  
 Time Sampled: 0800  
 Customer Identification: 2015 NPDES

Analysis Request	Soils (g) Fixed Total Volatile PH (SL) PCBs (mg/kg)	Toxins (g) As Cd Cr Cu Pb Hg Mn Zn	Soil VOA Vials [methanol] [Soil Blank]	GL Soil container (64) oz	GL 40 ml VOA Vial (16) oz	PL As [H2SO4]	PL As [HNO3 250ml]	PL As [H2SO4]	PL As [HNO3 250ml]	PL As [H2SO4]	PL As [HNO3 250ml]	Bacteria Bottle
X	X	X	X	X	X	X	X	X	X	X	X	X

Relinquished by: [Signature] Accepted by: [Signature]  
 Date: 4/10/15 Time: 10:13  
 Date: 4/10/16 Time: 15:04

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

CT/RI:  
 RCP Cert  
 GW Protect  
 GA Mobility  
 GB Mobility  
 SW Protection  
 Res. Vol.  
 Ind. Vol.  
 Res. Criteria  
 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:  
 ASP-A  
 NJ Reduced Deliv.\*  
 NJ Hazsite EDD  
 Phoenix Std Report  
 Other

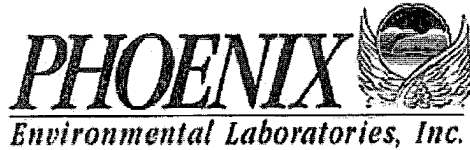
Comments, Special Requirements or Regulations:

State where samples were collected: CT

LOCATION CODE (SYN-NH)



M22



Wednesday, May 20, 2015

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

Project ID:  
Sample ID#: BJ19001

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,

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**  
 May 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: 24 Hour  
 P.O.#:

Custody Information

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

Date Time

05/19/15  
 05/19/15 17:40

Laboratory Data

SDG ID: GBJ19001  
 Phoenix ID: BJ19001

Project ID:

Client ID: XXXXXXXXXX

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Corrosivity	Negative		Pos/Neg	1	05/19/15	DHKDB	SW846-Corr
pH - Sludge	5.34	0.10	pH Units	1	05/19/15 20:10	DHKDB	SW9045

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

Comments:

Corrosivity is based solely on the pH analysis performed above.

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 20, 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

**QA/QC Report**  
May 20, 2015

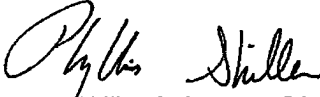
**QA/QC Data**

SDG I.D.: GBJ19001

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 308400 (PH), QC Sample No: BJ18485 (BJ19001)													
pH - Soil			6.43	6.86	6.50	99.7						85 - 115	20

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 20, 2015

Wednesday, May 20, 2015

Page 1 of 1

Criteria: None

## Sample Criteria Exceedences Report

GBJ19001 - SYN-FC

State: CT

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.

# 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:  PK  ICE  No  No

Temp 7 °C Pg      of     

**Contact Options:**

Fax:                       
 Phone:                       
 Email:                     

Project P.O.:                     

Customer: Synagro  
 Address: Waterbury Ct  
 Project:                       
 Report to: Jim Pratt  
 Invoice to:                     

This section **MUST** be completed with **Bottle Quantities.**

Sampler's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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
<u>87001</u>	<u>[Redacted]</u>		<u>5/19</u>	

Analysis Request: PH-COMPOSITE

- 40 ml VOA Vial [methanol] H<sub>2</sub>O
- GL Sol. container ( ) oz
- GL Sol. container ( ) oz
- GL Amber 100ml [As te] [HCl]
- PL As te [ 750ml ] 500ml [ 1000ml ]
- PL H<sub>2</sub>SO<sub>4</sub> [ 250ml ] 500ml [ 1000ml ]
- PL H<sub>2</sub>SO<sub>4</sub> [ 250ml ] 500ml [ 1000ml ]
- PL HNO<sub>3</sub> 250ml
- PL NaOH 250ml
- Backfill Bottle

Refrigerated by: <u>[Signature]</u>	Accepted by: <u>[Signature]</u>	Date: <u>5-19-15</u>	Time: <u>11:38</u>
RI <input type="checkbox"/> Direct Exposure (Residential) <input type="checkbox"/> GW <input type="checkbox"/> Other		CT <input type="checkbox"/> RCP Cert <input type="checkbox"/> GW Protection <input type="checkbox"/> SW Protection <input type="checkbox"/> GA Mobility <input type="checkbox"/> GB Mobility <input type="checkbox"/> Residential DEC <input type="checkbox"/> I/C DEC <input type="checkbox"/> Other	
MA <input type="checkbox"/> MCP Certification <input type="checkbox"/> GW-1 <input type="checkbox"/> GW-2 <input type="checkbox"/> GW-3 <input type="checkbox"/> S-1 <input type="checkbox"/> S-2 <input type="checkbox"/> S-3 <input type="checkbox"/> MWRA eSMART <input type="checkbox"/> Other		Data Format <input type="checkbox"/> Excel <input type="checkbox"/> PDF <input type="checkbox"/> GISKey <input type="checkbox"/> EQUIS <input type="checkbox"/> Other	
Turnaround: <input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Days* <input type="checkbox"/> 3 Days* <input type="checkbox"/> Standard <input type="checkbox"/> Other * SURCHARGE APPLIES		Data Package <input type="checkbox"/> Tier II Checklist <input type="checkbox"/> Full Data Package* <input type="checkbox"/> Phoenix Std Report <input type="checkbox"/> Other	
Comments, Special Requirements or Regulations: <u>Please rush!</u>			
State where samples were collected: _____ * SURCHARGE APPLIES			



**R.I. ANALYTICAL**  
Specialists In Environmental Services

[REDACTED]

M37

[REDACTED]

Page 1 of 2

**CERTIFICATE OF ANALYSIS**

United Water - [REDACTED]  
Attn: Mr. Jim Nyberg  
38 Mary Hall Road  
[REDACTED]

Date Received: 1/22/2015  
Date Reported: 2/6/2015  
P.O. #: 521-120557  
Work Order #: 1501-01625

**DESCRIPTION:** [REDACTED] WPCF - ATMR SLUDGE

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies.  
The specific methodologies are listed in the methods column of the Certificate of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.  
The Certificate of Analysis shall not be reproduced except in full, without written approval of R.I. Analytical.  
Results relate only to samples submitted to the laboratory for analysis.  
Test results are not blank corrected.

Certification #: RI LAI00033, MA M-RI015, CT PH-0508, ME RI00015  
NH 2537, NY 11726

If you have any questions regarding this work, or if we may be of further assistance, please contact our customer service department.

Approved by:

Sharon Baker  
MIS / Data Reporting

enc: Chain of Custody

**R.I. Analytical Laboratories, Inc.**  
**CERTIFICATE OF ANALYSIS**

United Water - [REDACTED]  
Date Received: 1/22/2015  
Work Order #: 1501-01625

Sample # 001

SAMPLE DESCRIPTION: DEWATERED SLUDGE

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 1/21/2015 @ 12:20

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Total Solids	5.2		%	SM2540 G. 18-21 ed.	1/29/2015 8:30	AK
Total Volatile Solids	80	0.5	%	SM2540 E 18-21 ed.	1/23/2015 14:45	EC
Total fixed solids	20	0.5	%	SM2540 E 18-21 ed.	1/23/2015 14:45	EC
<b>PCB</b>						
Aroclor-1016	<0.3	0.3	mg/kg dry	SW-846 8082A	1/26/2015 16:24	JEB
Aroclor-1221	<0.3	0.3	mg/kg dry	SW-846 8082A	1/26/2015 16:24	JEB
Aroclor-1232	<0.3	0.3	mg/kg dry	SW-846 8082A	1/26/2015 16:24	JEB
Aroclor-1242	<0.3	0.3	mg/kg dry	SW-846 8082A	1/26/2015 16:24	JEB
Aroclor-1248	<0.3	0.3	mg/kg dry	SW-846 8082A	1/26/2015 16:24	JEB
Aroclor-1254	<0.3	0.3	mg/kg dry	SW-846 8082A	1/26/2015 16:24	JEB
Aroclor-1260	<0.3	0.3	mg/kg dry	SW-846 8082A	1/26/2015 16:24	JEB
Surrogate			RANGE	SW-846 8082A	1/26/2015 16:24	JEB
Tetrachloro-m-xylene (TCMX)	58		30-150%	SW-846 8082A	1/26/2015 16:24	JEB
Decachlorobiphenyl	30		30-150%	SW-846 8082A	1/26/2015 16:24	JEB
Extraction date				SW846 3546	1/25/2015 15:15	JM
<b>Total Metals Analyzed by ICP</b>						
Arsenic	<48	48	mg/kg dry	SW-846 6010C	1/26/2015 12:19	JRW
Beryllium	1.0	0.96	mg/kg dry	SW-846 6010C	1/26/2015 12:19	JRW
Cadmium	<4.8	4.8	mg/kg dry	SW-846 6010C	1/26/2015 12:19	JRW
Chromium	<29	29	mg/kg dry	SW-846 6010C	1/26/2015 12:19	JRW
Copper	360	48	mg/kg dry	SW-846 6010C	1/26/2015 12:19	JRW
Lead	<38	38	mg/kg dry	SW-846 6010C	1/26/2015 12:19	JRW
Mercury	<1.8	1.8	mg/kg dry	SW-846 7471B	1/29/2015 11:08	JRW
Nickel	<19	19	mg/kg dry	SW-846 6010C	1/26/2015 12:19	JRW
Zinc	310	38	mg/kg dry	SW-846 6010C	1/26/2015 12:19	JRW
ICP Digestion				SW-846 3050B	1/23/2015 23:46	OMC
Mercury Digestion				SW-846 7471B	1/29/2015 10:16	OMC
Moisture	94.8		%	SM2540 G. 18-21 ed.	1/29/2015 8:30	AK
Ammonia (as N)	4200	38	mg/kg dry	SM4500-NH3 B,C	2/3/2015 17:00	JWD
Organic Nitrogen (as N)	48800	960	mg/kg dry	CALCULATION	2/6/2015 10:09	SB
pH	5.7		SU	SW-846 9045C	2/2/2015 16:35	PTT
Nitrite(as N)	<9.1	9.1	mg/kg dry	SM4500-NO2 B 18-21 ed.	2/3/2015 22:55	TAH
Nitrate(as N)	<9.1	9.1	mg/kg dry	SM4500-NO3 E 18-21 ed.	2/3/2015 22:55	TAH
Total Kjeldahl Nitrogen	53000	960	mg/kg dry	SM4500-NORG D 18-21 ed.	2/3/2015 16:20	TAC
Total Nitrogen (as N)	53000	960	mg/kg dry	CALCULATION	2/3/2015 16:20	TAC







RI ANALYTICAL  
Specialized Environmental Services

# CHAIN OF CUSTODY RECORD

41 Illinois Avenue  
Warrick, RI 02888-3097  
800-937-2580 • Fax: 401-738-1970

131 Coolidge St., Suite 105  
Hudson, MA 01749-1331  
800-937-2580 • Fax: 978-568-0078

Date Collected: 1-22-15  
Time Collected: 12:20  
Field Sample Identification: Dewatered Sludge

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type <sup>C</sup>	Preservation Code <sup>F</sup>	Matrix Code <sup>M</sup>	Total Metals-As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Zn	Total Solids	Fixed Solids	Volatile Solids	PCB	NH <sub>3</sub>	NO <sub>2</sub> , NO <sub>3</sub>	Organic Nitrogen	Total Nitrogen	TKN	pH
1-22-15	12:20	Dewatered Sludge	G				X	X	X	X	X	NH <sub>3</sub>	NO <sub>2</sub> , NO <sub>3</sub>	Organic Nitrogen	Total Nitrogen	TKN	pH

Added on 2/15 per John Furgerson

### Client Information

Company Name: [Redacted]  
Address: [Redacted]  
City/State/Zip: [Redacted]  
Telephone: 860-599-4548  
Contact Person: Jim Nyberg

### Project Information

Project Name: WPCF-ATMR Sludge  
P.O. Number: [Redacted]  
Report To: [Redacted]  
Sampled by: [Redacted]  
Quote No: [Redacted]  
Project Number: [Redacted]  
Phone: [Redacted]  
Email report to these addresses: jim.nyberg@unitedwater.com

### Relinquished By Signatures

Date	Time	Received By Signatures	Date	Time
1-22-15	11:42	[Signature]	1-22-15	11:43
1-22-15	16:36	[Signature]	1-22-15	16:36

### Turn Around Time

Normal	X	EMAIL Report
5 Business days. Possible surcharge		
Rush - Date Due: / /		

Circle if applicable: GW-1, GW-2, GW-3, S-1, S-2, S-3  
Project Comments: MCP Data Enhancement QC Package? Yes No

Temp. Upon Receipt: 24 °C

Contaminant: P=Poly, G=Glass, AG=Amber Glass, V=Vial, SP=Single Instructive, A=Ascorbic Acid, NH=NH<sub>4</sub>Cl, H=HCl, M=NaOH, N=HNO<sub>3</sub>, NP=NaOH, S=H<sub>2</sub>SO<sub>4</sub>, SB=NaHSO<sub>4</sub>, SH=NaOH, T=Na<sub>2</sub>S<sub>2</sub>O<sub>5</sub>, Z=ZnOAc  
Reagent: A=Aluminum Chloride, C=Calcium Chloride, W=Water, M=Mercuric Chloride, T=Thimerosal, S=Starch, A=Air, B=Butyl Alcohol, W=Water, O=Oxygen

Lab Use Only  
Sample Pick Up Only 1/27  
R/L sampled, attach field hours  
Shipped on ice

444



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

# Draft Progress Report

May 20, 2015

FOR: Attn: Mr. Mike Madden  
SYNAGRO (NHRLP)  
345 East Shore Parkway  
New Haven, CT 06512

### Sample Information

Matrix: SLUDGE  
Location Code: SYN-NH  
Rush Request: 24 Hour  
P.O.#:

### Custody Information

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

Date Time  
05/19/15 6:00  
05/19/15 16:38

## Laboratory Data

SDG ID: GBJ18954  
Phoenix ID: BJ18954

Project ID: LIQUID SLUDGE TESTING  
Client ID: [REDACTED]

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Selenium	6.9	1.5	mg/Kg	1	05/20/15	LK	SW6010C
Total Solids @ 104C	3.95	0.1	%	1	05/20/15	KH/KDB	SM2540B-97
pH - Sludge	5.86	0.10	pH Units	1	05/19/15 20:10	DH/KDB	SW9045
Total Metals Digest	Completed				05/19/15	CB/AG	SW3050B

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-tir

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.

PLEASE NOTE: THIS PROGRESS REPORT IS CONSIDERED PRELIMINARY DATA. THE RESULTS ENTERED HAVE NOT BEEN EXAMINED BY OUR QA/QC DEPARTMENT.

Phyllis Shiller, Laboratory Director  
May 20, 2015

Wednesday, May 20, 2015

Criteria: None

State: CT

## Sample Criteria Exceedences Report

GBJ18954 - SYN-NH

SampNo	Acode	Phoenix Analyte	Criteria	Result	R
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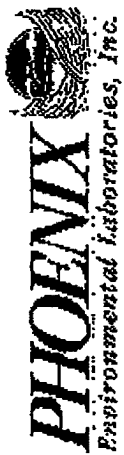
\*\*\* No Data to Display \*\*\*

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 accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately to determine appropriate compliance.

---

9/19/15

CHAIN OF CUSTODY RECORD



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 08040  
Email: info@phoenixlabs.com Fax: (860) 645-0823  
Client Services (860) 645-8726

Temp \_\_\_\_\_ Pt \_\_\_\_\_  
Data Delivery:  Fax # \_\_\_\_\_  
 E-mail: info@phoenixlabs.com

Project P.O.: \_\_\_\_\_  
Phone #: 203-489-0402  
Fax #: 203-489-0416

Project: Liquid Sludge Testing  
Report to: Mike Madden  
Invoice to: Accounts Payable

Customer: SYNAGRO (NH-RLP) #SYNAGRO  
Address: 345 East Shore Parkway  
New Haven CT 06512

Sampler's Signature: *Mike Madden* Date: 5-19-15

Analysis Request	MA	UVP Certification	CT/RI	Turnaround:	Time:
SPIN VIAL [matrix] [150 beads]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	24-48 Hours	8:30 AM - 2:00 PM
SPIN VIAL [matrix] [150 beads]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	24-48 Hours	8:30 AM - 2:00 PM
SPIN VIAL [matrix] [150 beads]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	24-48 Hours	8:30 AM - 2:00 PM
SPIN VIAL [matrix] [150 beads]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	24-48 Hours	8:30 AM - 2:00 PM
SPIN VIAL [matrix] [150 beads]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	24-48 Hours	8:30 AM - 2:00 PM

Project Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
18901	Ansonia, CT	SL	5/19/15	0800
18902	Bridgport, CT - East	SL	5/19/15	0800
18903	Bridgport CT - West	SL	5/19/15	0800
18904	New Canaan, CT	SL	5/19/15	0800
18905	Norwalk, CT	SL	5/19/15	0800

Matrix	Yield	Wet Weight	Dry Weight	Moisture %
18901				
18902				
18903				
18904				
18905				

Relinquished by: *Mike Madden* Accepted by: *Edy Serrano*  
Date: 5/19/15 Date: 5/19/15  
Time: 8:30 AM - 2:00 PM Time: 11:38 AM

Comments, Special Requirements or Regulations:  
Please issue results in separate reports.  
Please turnaround ASAP.

- RCP Cert
- GW Profund
- GA Mobility
- Gas Mobility
- GW Protection
- Res. Vol
- Int. Vol.
- Res. Criteria
- Other

- UVP Certification
- GW-1
- GW-2
- GW-3
- S-1
- S-2
- S-3
- MWRA e-SMART
- Other

- Data Package
- ASR-A
- NJ - Reduced Deliv. \*
- NJ - Baseline EDD
- Phoenix Std Report
- Other

Data Format:  
 Excel  
 PDF  
 GIS/Key  
 SCUS  
 Other

State where samples were collected: CT

LOCATION CODE (SYN-NH)

M23



Monday, April 20, 2015

Attn: Mr. Jim Bowdy

Project ID:

Sample ID#s: BJ02096

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 20, 2015

FOR:

## Sample Information

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

## Custody Information

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

## Date

04/14/15 8:44  
 04/14/15 15:24

## Time

## Laboratory Data

SDG ID: GBJ02096  
 Phoenix ID: BJ02096

Project ID:  
 Client ID: QUARTERLY SLUDGE

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum	9090	1.1	mg/Kg	1	04/15/15	LK	SW6010C
Arsenic	< 3.5	3.5	mg/Kg	1	04/15/15	LK	SW6010C
Beryllium	< 1.8	1.8	mg/Kg	1	04/15/15	LK	SW6010C
Cadmium	3.8	1.8	mg/Kg	1	04/15/15	LK	SW6010C
Chromium	46.9	1.8	mg/Kg	1	04/15/15	LK	SW6010C
Copper	1270	18	mg/Kg	10	04/15/15	LK	SW6010C
Mercury	4.44	0.14	mg/kg	1	04/15/15	RS	SW7471B
Nickel	61.3	1.8	mg/Kg	1	04/15/15	LK	SW6010C
Lead	120	1.8	mg/Kg	1	04/15/15	LK	SW6010C
Zinc	1820	18	mg/Kg	10	04/15/15	LK	SW6010C
Percent Solid	5.60	1	%				SW846-%Solid
Total Solids @ 104C	5.60	0.1	%	1	04/16/15	KH	SM2540B-97
Fixed Solids @ 500C	22.9	0.1	%	1	04/16/15	KH	E160.4
Ammonia as Nitrogen	15900	2300	mg/Kg	1	04/16/15	WHM	E350.1
Nitrite as N	< 1.8	1.8	mg/kg	10	04/14/15	BS/EG	SW9056A
Nitrate as N	< 8.9	8.9	mg/kg	10	04/14/15	BS/EG	SW9056A
Organic Nitrogen	38500	900	mg/Kg	1	04/16/15	WHM	E350.1/E350.2
pH - Sludge	7.05	0.10	pH Units	1	04/14/15 23:50	DH/KDB	SW9045
Phosphorus, Total	14400	220	mg/Kg	39381.49	04/15/15	JR	SM4500PE-99
Volatile Solids @ 500C	77.1	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				04/17/15	M/M	SW3550C
Total Metals Digest	Completed				04/14/15	CB/AG	SW3050B

## Polychlorinated Biphenyls

PCB-1016	ND	1700	ug/Kg	1	04/18/15	AW	SW8082A
PCB-1221	ND	1700	ug/Kg	1	04/18/15	AW	SW8082A
PCB-1232	ND	1700	ug/Kg	1	04/18/15	AW	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1242	ND	1700	ug/Kg	1	04/18/15	AW	SW8082A
PCB-1248	ND	1700	ug/Kg	1	04/18/15	AW	SW8082A
PCB-1254	ND	1700	ug/Kg	1	04/18/15	AW	SW8082A
PCB-1260	ND	1700	ug/Kg	1	04/18/15	AW	SW8082A
PCB-1262	ND	1700	ug/Kg	1	04/18/15	AW	SW8082A
PCB-1268	ND	1700	ug/Kg	1	04/18/15	AW	SW8082A
<b><u>QA/QC Surrogates</u></b>							
% DCBP	90		%	1	04/18/15	AW	30 - 150 %
% TCMX	64		%	1	04/18/15	AW	30 - 150 %

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

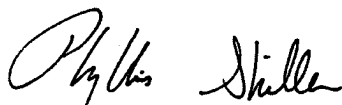
**Comments:**

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

April 20, 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 20, 2015

## QA/QC Data

SDG I.D.: GBJ02096

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 304592 (mg/kg), QC Sample No: BJ01770 (BJ02096)													
<b>ICP Metals - Soil</b>													
Aluminum	BRL	5.0	10300	10200	1.00	94.2	95.7	1.6	NC	NC	NC	75 - 125	30
Arsenic	BRL	0.67	11.0	10.8	1.80	101	99.3	1.7	94.0	92.7	1.4	75 - 125	30
Beryllium	BRL	0.27	0.52	0.52	NC	101	98.7	2.3	95.2	95.3	0.1	75 - 125	30
Cadmium	BRL	0.33	<0.32	<0.34	NC	111	99.9	10.5	95.3	95.7	0.4	75 - 125	30
Chromium	BRL	0.33	14.0	14.6	4.20	104	101	2.9	104	104	0.0	75 - 125	30
Copper	BRL	0.33	25.6	26.3	2.70	103	99.7	3.3	107	107	0.0	75 - 125	30
Lead	BRL	0.33	11.0	10.9	0.90	100	99.1	0.9	94.8	94.2	0.6	75 - 125	30
Nickel	BRL	0.33	18.0	19.0	5.40	109	99.8	8.8	96.6	96.4	0.2	75 - 125	30
Zinc	BRL	0.33	77.5	76.2	1.70	107	100	6.8	99.1	95.5	3.7	75 - 125	30

QA/QC Batch 304646 (mg/kg), QC Sample No: BJ02359 (BJ02096)														
Mercury - Soil	BRL N	0.06	0.24	0.20 N	18.2	105 N	107 N	1.9	115 N	157	30.9	70 - 130	30	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

April 20, 2015

## QA/QC Data

SDG I.D.: GBJ02096

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 304654 (mg/Kg), QC Sample No: BJ01740 (BJ02096)													
Phosphorus, Total as P	BRL	0.50	26000	23900	8.40	105						85 - 115	30
QA/QC Batch 304649 (PH), QC Sample No: BJ01947 (BJ02096)													
pH - Soil			9.40	9.36	0.40	99.8						85 - 115	20
QA/QC Batch 304805 (), QC Sample No: BJ02096 (BJ02096)													
Total Solids	BRL	0.1	5.60	5.78	3.20	100						85 - 115	30
QA/QC Batch 304714 (mg/L), QC Sample No: BJ02388 (BJ02096)													
Nitrate as Nitrogen	BRL	0.05	<0.05	<0.05	NC	95.7			100			85 - 115	20
Nitrite as Nitrogen	BRL	0.004	<0.004	<0.004	NC	103			96.3			85 - 115	20
QA/QC Batch 304715 (mg/L), QC Sample No: BJ02474 (BJ02096)													
Ammonia as Nitrogen	BRL	0.05	0.13	0.14	NC	104			102			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 20, 2015

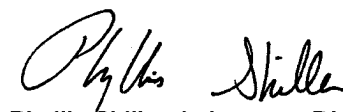
## QA/QC Data

SDG I.D.: GBJ02096

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
QA/QC Batch 304826 (ug/Kg), QC Sample No: BJ01825 (BJ02096)										
<b><u>Polychlorinated Biphenyls - Sludge</u></b>										
PCB-1016	ND	13	65	72	10.2				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	77	82	6.3				40 - 140	30
PCB-1262	ND	13							40 - 140	30
PCB-1268	ND	13							40 - 140	30
% DCBP (Surrogate Rec)	110	%	99	99	0.0				30 - 150	30
% TCMX (Surrogate Rec)	78	%	79	80	1.3				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 20, 2015

Monday, April 20, 2015

Criteria: None

State: CT

## Sample Criteria Exceedences Report

GBJ02096 - CITYGRTN

Page 1 of 1

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.



**REPORT OF ANALYTICAL RESULTS**

**NETLAB Case Number B0514-21B**

Prepared for:

Attn: Wes Plummer  
Synagro  
15 Cumberland Hill Rd.  
Woonsocket, RI 02895

Report Date: May 15, 2015



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 14, 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 is B0514-21B.

Custody records are included in this report.

**TABLE I, Samples Submitted**

Sample ID	Date Sampled	Matrix	Analysis Requested
[REDACTED]	5/14/2015	Other	Table II

**TABLE II, Analysis and Methods**

ANALYSIS	PREPARATION METHOD	DETERMINATIVE METHOD
Total Metals		
Selenium	3050B	6010C

These methods are documented in:

*Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, USEPA/OSW.*

## **CASE NARRATIVE**

The sample was received at 2 Deg. C. All analyses were performed within EPA designated holding-times. Procedure calibration checks required by the designated protocols were within control limits.

## **METALS RESULTS**

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Metals Analysis Department certifies that the results included in this section have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

New England Testing Laboratory, Inc.



METALS RESULTS



Case Number: B0514-21B  
 Sample ID: [REDACTED]  
 Date collected: 5/14/15  
 Matrix: SOLID  
 Solids, %: 9.81 SJC/AM  
 Sample Type: Total

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Units	Date of Preparation	Date Analyzed
Selenium	7782-49-2	3050B	6010C	ND	3.34	mg/kg	5/15/15	5/15/15

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Sample ID: Preparation Blank  
 Matrix: SOIL  
 Solids, %: 100 SJC/AM  
 Sample Type: Total

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Units	Date of Preparation	Date Analyzed
Selenium	7782-49-2	3050B	6010C	ND	0.67	mg/kg	5/15/15	5/15/15

ND indicates Not Detected.

All results are reported on a dry weight basis.

## LABORATORY CONTROL SAMPLE RECOVERY

Parameter	True Value	Result	Units	Recovery, %	Internal		Date Analyzed
					LCL, %	UCL, %	
Selenium	20.0	19.3	mg/kg	97	85	115	5/15/15

New England Testing Laboratory, Inc.

BOS14-21B

Provisional

NEW ENGLAND TESTING LABORATORY, INC.  
 1254 Douglas Avenue  
 North Providence, RI 02904  
 1-888-863-8522

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME/LOCATION		NO. OF CONTAINERS		REMARKS
CLIENT		SAMPLE I.D.		NO.	OF CONTAINERS	
REPORT TO:		C O M P		S O I L		SPECIAL INSTRUCTIONS: List Specific Detection Limit Requirements:
INVOICE TO:		G R A B		S O I L		
5/14/15	Woonsocket	BRANFORD	WWTP	✓	1.0	"TESTS" Asbestos Lead PCBs VOCs SVOCs Radon UCMRs Bromide, Bromate, Bromate, Sieve, Salmonella, Carbamates
5/14/15	Syngona	Mystic	WPEF	✓	1.0	
5/14/15		Pawcatuck	WPEF	✓	1.0	
5/14/15		Groton City		✓	1.0	
5/14/15		Stonington	(Raw Sludge)	✓	1.0	
5/14/15				✓	1.0	
Sampled by: (Signature)		Received by: (Signature)		Date/Time		Laboratory Remarks: Temp. received: 22C Cooled <input type="checkbox"/>
[Signature]		[Signature]		5/14/15 16:40		
Relinquished by: (Signature)		Received for Laboratory by: (Signature)		Date/Time		
[Signature]		[Signature]		5/14/15 17:20		
Relinquished by: (Signature)		Received for Laboratory by: (Signature)		Date/Time		Turnaround (Business Days) <u>24 hours</u>
[Signature]		[Signature]		5/14/15 17:20		

\*\*Netlab subcontracts the following tests: Radiologicals, Radon, Asbestos, UCMRs, Perchlorate, Bromate, Bromide, Sieve, Salmonella, Carbamates

1143



Thursday, April 30, 2015

Attn: Mr. Mike Madden  
SYNAGRO (NHRLP)  
345 East Shore Parkway  
New Haven, CT 06512

Project ID: NPDES  
Sample ID#s: BJ04747

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 30, 2015

FOR: Attn: Mr. Mike Madden  
 SYNAGRO (NHRLP)  
 345 East Shore Parkway  
 New Haven, CT 06512

Sample Information

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

Custody Information

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

Date

04/20/15 8:00  
 04/20/15 14:50

Time

Laboratory Data

SDG ID: GBJ04747  
 Phoenix ID: BJ04747

Project ID: NPDES  
 Client ID: ██████████ 2015 NPDES

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	< 3.9	3.9	mg/Kg	1	04/22/15	EK	SW6010C
Beryllium	< 2.0	2.0	mg/Kg	1	04/22/15	EK	SW6010C
Cadmium	< 2.0	2.0	mg/Kg	1	04/22/15	EK	SW6010C
Chromium	14.3	2.0	mg/Kg	1	04/22/15	EK	SW6010C
Copper	765	20	mg/Kg	10	04/22/15	EK	SW6010C
Mercury	0.49	0.14	mg/kg	1	04/22/15	RS	SW7471B
Nickel	18.0	2.0	mg/Kg	1	04/22/15	EK	SW6010C
Lead	33.3	2.0	mg/Kg	1	04/22/15	EK	SW6010C
Zinc	732	2.0	mg/Kg	1	04/22/15	EK	SW6010C
Percent Solid	5.66	1	%				SW846-%Solid
Total Solids @ 104C	5.66	0.1	%	1	04/22/15	KH	SM2540B-97
Fixed Solids @ 500C	16.3	0.1	%	1	04/22/15	KH	E160.4
pH - Sludge	5.84	0.10	pH Units	1	04/20/15 20:00	DH/KDB	SW9045
Volatile Solids @ 500C	83.7	0.1	%	1	04/22/15	KH	SM2540E/E160.4-9
Mercury Digestion	Completed				04/22/15	I/I	SW7471B
Sludge Ext. for PCB	Completed				04/28/15	M/M	SW3550C
Total Metals Digest	Completed				04/20/15	CB/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	830	ug/Kg	1	04/30/15	KCA	SW8082A
PCB-1221	ND	830	ug/Kg	1	04/30/15	KCA	SW8082A
PCB-1232	ND	830	ug/Kg	1	04/30/15	KCA	SW8082A
PCB-1242	ND	830	ug/Kg	1	04/30/15	KCA	SW8082A
PCB-1248	ND	830	ug/Kg	1	04/30/15	KCA	SW8082A
PCB-1254	ND	830	ug/Kg	1	04/30/15	KCA	SW8082A
PCB-1260	ND	830	ug/Kg	1	04/30/15	KCA	SW8082A
PCB-1262	ND	830	ug/Kg	1	04/30/15	KCA	SW8082A
PCB-1268	ND	830	ug/Kg	1	04/30/15	KCA	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<b><u>QA/QC Surrogates</u></b>							
% DCBP	120		%	1	04/30/15	KCA	30 - 150 %
% TCMX	88		%	1	04/30/15	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.

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: 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

**QA/QC Report**

April 30, 2015

**QA/QC Data**

SDG I.D.: GBJ04747

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 305217 (mg/kg), QC Sample No: BJ04634 (BJ04747)														
<b>ICP Metals - Soil</b>														
Arsenic	BRL	0.68	15.6	10.6	38.2	97.4	97.1	0.3	92.1	94.9	3.0	75 - 125	30	r
Beryllium	BRL	0.27	3.55	3.96	10.9	97.3	98.5	1.2	95.1	96.7	1.7	75 - 125	30	
Cadmium	BRL	0.34	23.9	13.2	57.7	94.6	95.5	0.9	82.5	86.0	4.2	75 - 125	30	r
Chromium	BRL	0.34	60.7	40.8	39.2	96.2	94.5	1.8	82.6	79.2	4.2	75 - 125	30	r
Copper	BRL	0.34	11200	1430	155	99.2	102	2.8	NC	NC	NC	75 - 125	30	r
Lead	BRL	0.34	8050	1190	149	95.2	91.8	3.6	NC	NC	NC	75 - 125	30	r
Nickel	BRL	0.34	54.4	59.2	8.50	97.6	101	3.4	94.0	98.4	4.6	75 - 125	30	
Zinc	BRL	0.34	4790	2920	48.5	97.4	99.6	2.2	NC	NC	NC	75 - 125	30	r

QA/QC Batch 305409 (mg/kg), QC Sample No: BJ04722 (BJ04747)

Mercury - Soil	BRL	0.06	<0.03	<0.03	NC	106	113	6.4	107	108	0.9	70 - 130	30
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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**

April 30, 2015

**QA/QC Data**

SDG I.D.: GBJ04747

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 305295 (PH), QC Sample No: BJ04634 (BJ04747)													
pH - Soil			7.60	7.68	1.00	97.3						85 - 115	20
QA/QC Batch 305434 (), QC Sample No: BJ04747 (BJ04747)													
Total Solids	BRL	0.1	5.66	5.38	5.10	100						85 - 115	30



**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.: GBJ04747

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 304826 (ug/Kg), QC Sample No: BJ01825 (BJ04747)										
<b>Polychlorinated Biphenyls - Solid</b>										
PCB-1016	ND	13	65	72	10.2				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	77	82	6.3				40 - 140	30
PCB-1262	ND	13							40 - 140	30
PCB-1268	ND	13							40 - 140	30
% DCBP (Surrogate Rec)	110	%	99	99	0.0				30 - 150	30
% TCMX (Surrogate Rec)	78	%	79	80	1.3				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

Thursday, April 30, 2015

Criteria: None

State: CT

## Sample Criteria Exceedences Report

GBJ04747 - SYN-NH

Page 1 of 1

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.



**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

Temp 100C Pg of 1  
 Data Delivery:  Fax # WICAP  
 Email: mmadden@synagro.com

Customer: SYNAGRO (NHRLP) Project: NPDES  
 Address: 345 East Shore Parkway Report to: Mike Madden  
 New Haven, CT 06512 Invoice to: Accounts Payable

Project P.O.:  
 Phone #: 203-469-0402  
 Fax #: 203-469-0418

Sampler's Signature: Mike Madden Date: 4-20-15  
 Client Sample - Information - Identification

Matrix Code: WW=wastewater S=soil/solid O=oil  
 DW=drinking water SL=sludge A=air X=other  
 GW=groundwater

Phoenix Sample # 02117  
 Customer Sample Identification [Redacted]  
 2015 NPDES

Analysis Request  
 Total (kg) Lead, Cd, Cr, Pb, Hg, Ni, Zn  
 Solids (% Free, Total, Volatile)  
 Sol VOA Vial (16) oz  
 GL Soil container (6) oz  
 40 ml VOA Vial (16) oz  
 GL Amber 1000ml Jars (1) HCl  
 PL H2SO4 (1250ml) [500ml] [1000ml]  
 PL HNO3 250ml  
 PL NaOH 250ml  
 Barium Bottle

Turnaround:	CT/RI	MA	Data Format
<input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Days* <input type="checkbox"/> 3 Days* <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Other	<input type="checkbox"/> RCP Cert <input type="checkbox"/> GW Protect <input type="checkbox"/> GA Mobility <input type="checkbox"/> GB Mobility <input type="checkbox"/> SW Protection <input type="checkbox"/> Res. Vol. <input type="checkbox"/> Ind. Vol. <input type="checkbox"/> Res. Criteria <input type="checkbox"/> Other	<input type="checkbox"/> MCP Certification <input type="checkbox"/> GW-1 <input type="checkbox"/> GW-2 <input type="checkbox"/> GW-3 <input type="checkbox"/> S-1 <input type="checkbox"/> S-2 <input type="checkbox"/> S-3 <input type="checkbox"/> MWRA eSMART <input type="checkbox"/> Other	<input type="checkbox"/> Excel <input type="checkbox"/> PDF <input type="checkbox"/> GIS/Key <input type="checkbox"/> EQUIS <input type="checkbox"/> Other

Relinquished by: [Signature] Accepted by: [Signature] Date: 4-20-15 10:50  
 Time: 4:20:15 14:50  
 Comments, Special Requirements or Regulations:  
 State where samples were collected: CT  
 LOCATION CODE (SYN-NH)

3-2015

M46



Wednesday, March 18, 2015

Attn: Mr. Mike Madden  
SYNAGRO (NHRLP)  
345 East Shore Parkway  
New Haven, CT 06512

Project ID: NPDES  
Sample ID#s: BH82205

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

March 18, 2015

FOR: Attn: Mr. Mike Madden  
 SYNAGRO (NHRLP)  
 345 East Shore Parkway  
 New Haven, CT 06512

## Sample Information

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

## Custody Information

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

## Date

03/11/15  
 03/11/15

## Time

8:00  
 16:18

## Laboratory Data

SDG ID: GBH82205  
 Phoenix ID: BH82205

Project ID: NPDES  
 Client ID: ██████████ 2015 NPDES

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Arsenic	3.4	1.4	mg/Kg	03/13/15	EK	SW6010C
Beryllium	< 0.72	0.72	mg/Kg	03/13/15	EK	SW6010C
Cadmium	1.17	0.72	mg/Kg	03/13/15	EK	SW6010C
Chromium	13.5	0.72	mg/Kg	03/13/15	EK	SW6010C
Copper	358	7.2	mg/Kg	03/13/15	EK	SW6010C
Mercury	0.38	0.23	mg/kg	03/16/15	RS	SW7471B
Nickel	10.4	0.72	mg/Kg	03/13/15	EK	SW6010C
Lead	19.4	0.72	mg/Kg	03/13/15	EK	SW6010C
Zinc	694	7.2	mg/Kg	03/13/15	EK	SW6010C
Total Solids @ 104C	5.91	0.1	%	03/13/15	KH	SM2540B-97
Fixed Solids @ 500C	16.3	0.1	%	03/13/15	KH	E160.4
pH - Sludge	6.21	0.10	pH Units	03/11/15 20:00	DH/KDB	SW9045
Volatile Solids @ 500C	83.7	0.1	%	03/13/15	KH	SM2540E/E160.4-9
Mercury Digestion	Completed			03/16/15	I/I	SW7471B
Sludge Ext. for PCB	Completed			03/16/15	M/M	SW3550C
Total Metals Digest	Completed			03/12/15	CB/AG	SW3050B

## Polychlorinated Biphenyls

PCB-1016	ND	800	ug/Kg	03/17/15	AW	SW8082A
PCB-1221	ND	800	ug/Kg	03/17/15	AW	SW8082A
PCB-1232	ND	800	ug/Kg	03/17/15	AW	SW8082A
PCB-1242	ND	800	ug/Kg	03/17/15	AW	SW8082A
PCB-1248	ND	800	ug/Kg	03/17/15	AW	SW8082A
PCB-1254	ND	800	ug/Kg	03/17/15	AW	SW8082A
PCB-1260	ND	800	ug/Kg	03/17/15	AW	SW8082A
PCB-1262	ND	800	ug/Kg	03/17/15	AW	SW8082A
PCB-1268	ND	800	ug/Kg	03/17/15	AW	SW8082A

## QA/QC Surrogates

Project ID: NPDES

Phoenix I.D.: BH82205

Client ID: [REDACTED] 2015 NPDES

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% DCBP	74		%	03/17/15	AW	30 - 150 %
% TCMX	57		%	03/17/15	AW	30 - 150 %

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

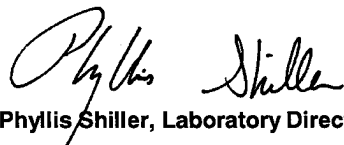
**Comments:**

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**

**March 18, 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

# QA/QC Report

March 18, 2015

## QA/QC Data

SDG I.D.: GBH82205

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 301435, QC Sample No: BH82531 (BH82205)												
<b>ICP Metals - Soil</b>												
Arsenic	BRL	<0.7	<0.68	NC	105	108	2.8	89.8	90.4	0.7	75 - 125	30
Beryllium	BRL	0.50	0.49	NC	105	106	0.9	94.5	97.1	2.7	75 - 125	30
Cadmium	BRL	<0.36	<0.34	NC	94.9	96.0	1.2	93.2	95.7	2.6	75 - 125	30
Chromium	BRL	17.9	15.8	12.5	107	109	1.9	95.2	98.3	3.2	75 - 125	30
Copper	BRL	24.7	25.1	1.60	105	102	2.9	113	119	5.2	75 - 125	30
Lead	BRL	<0.36	<0.34	NC	96.4	98.0	1.6	95.1	97.3	2.3	75 - 125	30
Nickel	BRL	12.7	11.8	7.30	110	109	0.9	96.5	100	3.6	75 - 125	30
Zinc	BRL	60.0	58.0	3.40	101	102	1.0	103	105	1.9	75 - 125	30
QA/QC Batch 301627, QC Sample No: BH82532 (BH82205)												
Mercury - Soil	BRL	<0.03	<0.03	NC	106	105	0.9	105	92.1	13.1	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

March 18, 2015

## QA/QC Data

SDG I.D.: GBH82205

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 301515, QC Sample No: BH81856 (BH82205)												
Total Solids	BRL	23.6	24.4	3.30	100						85 - 115	30
QA/QC Batch 301365, QC Sample No: BH82205 (BH82205)												
pH - Sludge		6.21	6.04	2.80	96.9							



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

# QA/QC Report

March 18, 2015

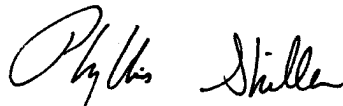
## QA/QC Data

SDG I.D.: GBH82205

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 301180, QC Sample No: BH80180 (BH82205)									
<b>Polychlorinated Biphenyls - Sludge</b>									
PCB-1016	ND	73	66	10.1				40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	98	85	14.2				40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	109	105	89	16.5				30 - 150	30
% TCMX (Surrogate Rec)	76	74	64	14.5				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  
 March 18, 2015

Wednesday, March 18, 2015

## Sample Criteria Exceedences Report

GBH82205 - SYN-NH

Page 1 of 1

Criteria: None

State: CT

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.

**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**



Term of 000 Pg of 000  
**Data Delivery**  
 Fax #:  
 Email: mmadden@synagi.com

Customer: SYNAGRO (NHRLP) Project: NPDES  
 Address: 345 East Shore Parkway Report to: Mike Madden  
New Haven, CT 06512 Invoice to: Accounts Payable  
 Project P.O.: 203-469-0402  
 Phone #: 203-469-0418  
 Fax #: 203-469-0418

Analysis Request  
 Soil Vials [Material] [Soil Baseline]  
 GL Soil Container (6L) or  
 40 ml VOA Vial [As Is] [HCl]  
 PL As Is [750ml] [As Is] [H2SO4]  
 PL HNO3 250ml [150ml] [1000ml]  
 PL NHO3 250ml [150ml] [1000ml]  
 Beeria bottles

Analysis Request  
 Total Kjeldahl Nitrogen  
 Total Nitrogen  
 NH (N) POCs (mg/kg)  
 Slakes (%) Fixed Total Volatiles

Sampler's Signature Mike Madden Date: 3-11-15  
 Client Sample - Information - Identification

Matrix Code:  
 DW=drinking water S=soil/solid O=oil  
 GW=groundwater SL=sludge A=air X=other

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
82205	<u>[Redacted]</u> 2015 NPDES	SL	3/11/15	0800

Requisitioned by:	Accepted by:	Date:	Time:	Turnaround:	CT/RI:	MA:	Data Format:
<u>[Signature]</u>	<u>[Signature]</u>	3/11/15	1400	<input checked="" type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Days* <input type="checkbox"/> 3 Days* <input type="checkbox"/> Standard <input type="checkbox"/> Other	<input type="checkbox"/> RCP Cert <input type="checkbox"/> GW Protect <input type="checkbox"/> GA Mobility <input type="checkbox"/> GB Mobility <input type="checkbox"/> SW Protection <input type="checkbox"/> Res. Vol. <input type="checkbox"/> Ind. Vol. <input type="checkbox"/> Res. Criteria <input type="checkbox"/> Other	<input type="checkbox"/> MCP Certification <input type="checkbox"/> GW-1 <input type="checkbox"/> GW-2 <input type="checkbox"/> GW-3 <input type="checkbox"/> S-1 <input type="checkbox"/> S-2 <input type="checkbox"/> S-3 <input type="checkbox"/> MWR eSMART <input type="checkbox"/> Other	<input type="checkbox"/> Excel <input type="checkbox"/> PDF <input type="checkbox"/> GIS/Key <input type="checkbox"/> EQUIS <input type="checkbox"/> Other
Comments, Special Requirements or Regulations: * SURCHARGE APPLIES State where samples were collected: <u>CT</u>							

LOCATION CODE (SYN-NH)



2015 M47

**CERTIFICATE OF ANALYSIS**

[REDACTED]

Date Received: 1/20/2015  
Date Reported: 1/28/2015  
P.O. #: 521-120557  
Work Order #: 1501-01384

**DESCRIPTION:** [REDACTED] ATMR SLUDGE

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies.  
The specific methodologies are listed in the methods column of the Certificate of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.  
The Certificate of Analysis shall not be reproduced except in full, without written approval of R.I. Analytical.  
Results relate only to samples submitted to the laboratory for analysis.  
Test results are not blank corrected.

Certification #: RI LAI00033, MA M-RI015, CT PH-0508, ME RI00015  
NH 2537, NY 11726

If you have any questions regarding this work, or if we may be of further assistance, please contact our customer service department.

Approved by:

Sharon Baker  
MIS / Data Reporting  
enc: Chain of Custody

**R.I. Analytical Laboratories, Inc.**  
**CERTIFICATE OF ANALYSIS**

United Water - [REDACTED]  
Date Received: 1/20/2015  
Work Order #: 1501-01384

Sample # 001

SAMPLE DESCRIPTION: DEWEATERED SLUDGE (PAWCATUCK)

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 1/20/2015 @ 11:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Total Solids	7.3		%	SM2540 G. 18-21 ed.	1/23/2015 14:00	AK
Total Volatile Solids	92	0.5	%	SM2540 E 18-21 ed.	1/23/2015 14:45	EC
Total fixed solids	8.3	0.5	%	SM2540 E 18-21 ed.	1/23/2015 14:45	EC
<b>PCB</b>						
Aroclor-1016	<0.3	0.3	mg/kg dry	SW-846 8082A	1/26/2015 14:02	JEB
Aroclor-1221	<0.3	0.3	mg/kg dry	SW-846 8082A	1/26/2015 14:02	JEB
Aroclor-1232	<0.3	0.3	mg/kg dry	SW-846 8082A	1/26/2015 14:02	JEB
Aroclor-1242	<0.3	0.3	mg/kg dry	SW-846 8082A	1/26/2015 14:02	JEB
Aroclor-1248	<0.3	0.3	mg/kg dry	SW-846 8082A	1/26/2015 14:02	JEB
Aroclor-1254	<0.3	0.3	mg/kg dry	SW-846 8082A	1/26/2015 14:02	JEB
Aroclor-1260	<0.3	0.3	mg/kg dry	SW-846 8082A	1/26/2015 14:02	JEB
Surrogate			RANGE	SW-846 8082A	1/26/2015 14:02	JEB
Tetrachloro-m-xylene (TCMX)	61		30-150%	SW-846 8082A	1/26/2015 14:02	JEB
Deochlorobiphenyl	35		30-150%	SW-846 8082A	1/26/2015 14:02	JEB
Extraction date				SW846 3546	1/25/2015 15:15	JM
<b>Total Metals Analyzed by ICP</b>						
Arsenic	<34	34	mg/kg dry	SW-846 6010C	1/23/2015 17:10	JRW
Beryllium	<0.67	0.67	mg/kg dry	SW-846 6010C	1/23/2015 17:10	JRW
Cadmium	<3.4	3.4	mg/kg dry	SW-846 6010C	1/23/2015 17:10	JRW
Chromium	<20	20	mg/kg dry	SW-846 6010C	1/23/2015 17:10	JRW
Copper	310	34	mg/kg dry	SW-846 6010C	1/23/2015 17:10	JRW
Lead	<27	27	mg/kg dry	SW-846 6010C	1/23/2015 17:10	JRW
Mercury	<1.2	1.2	mg/kg dry	SW-846 7471B	1/22/2015 10:57	JRW
Nickel	<13	13	mg/kg dry	SW-846 6010C	1/23/2015 17:10	JRW
Zinc	320	27	mg/kg dry	SW-846 6010C	1/23/2015 17:10	JRW
ICP Digestion				SW-846 3050B	1/23/2015 8:04	OMC
Mercury Digestion				SW-846 7471B	1/22/2015 7:48	OMC
Moisture	92.7		%	SM2540 G. 18-21 ed.	1/23/2015 14:00	AK

**PI ANALYTICAL**  
**CHAIN OF CUSTODY RECORD**

41 Illinois Avenue  
 Warwick, RI 02888-3007  
 800-937-2580 • Fax: 401-738-1970  
 131 Coolidge St., Suite 105  
 Hudson, MA 01749-1331  
 800-937-2580 • Fax: 978-568-0078

Date Collected: 1-20-15  
 Time Collected: 1102  
 Field Sample Identification: [Redacted]  
 Matrix: Dewatered Sludge

10-2-14	Grab or Composite	# of Containers & Type	Preservation Code	Matrix Code	Total Metals-As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Zn	Total Solids	Fixed Solids	Volatile Solids	PCB
1-20-15	G	1G	MS	MS	X	X	X	X	X

**Client Information**

Company Name: [Redacted]

Address: [Redacted]

City / State / Zip: [Redacted]

Telephone: 860-599-4548

Contact Person: Jim Nyberg

Fax: 860-599-8041

Project Name: **Stonington-Borough WPCF - ATMR Sludge**

P.O. Number: [Redacted]

Report To: [Redacted]

Sampled by: [Signature]

Quote No: [Redacted]

Project Number: [Redacted]

Phone: [Redacted]

Fax: [Redacted]

Email report to these addresses: [Jim.Nyberg@unitedwater.com](mailto:Jim.Nyberg@unitedwater.com)  
[Bill.waterhouse@unitedwater.com](mailto:Bill.waterhouse@unitedwater.com)

**Project Information**

Project Name: **Stonington-Borough WPCF - ATMR Sludge**

P.O. Number: [Redacted]

Report To: [Redacted]

Sampled by: [Signature]

Quote No: [Redacted]

Project Number: [Redacted]

Phone: [Redacted]

Fax: [Redacted]

Email report to these addresses: [Jim.Nyberg@unitedwater.com](mailto:Jim.Nyberg@unitedwater.com)  
[Bill.waterhouse@unitedwater.com](mailto:Bill.waterhouse@unitedwater.com)

Requisitioned By	Signature	Date	Time	Received By	Signature	Date	Time
[Signature]	[Signature]	1-20-15	1430	[Signature]	[Signature]	1-20-15	1430
[Signature]	[Signature]	1-20-15	1545	[Signature]	[Signature]	1-20-15	1515

**Project Comments**

MCP Data Enhancement QC Package? Yes No

Temp. Upon Receipt 2.8°C

Lab Use Only:

Sample Pick Up Only

RIAL sampled; attach field hours

Shipped on ice

Workorder No: 1501-1381

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, ST=Sterile Preservatives; A=Ascorbic Acid, NH4=NH4Cl, H=HCl, M=MeOH, N=HNO3, NP=None, S=H2SO4, SB=NaHSO4, SE=NaOH, T=Na2S2O8, Z=ZnOAC

Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WF=Wipe, O=

Page 1 of 1

~~\_\_\_\_\_~~  
MS6



Tuesday, March 10, 2015

Attn: Mr. Mike Madden  
SYNAGRO (NHRLP)  
345 East Shore Parkway  
New Haven, CT 06512

Project ID: NPDES  
Sample ID#s: BH79281

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

March 10, 2015

FOR: Attn: Mr. Mike Madden  
 SYNAGRO (NHRLP)  
 345 East Shore Parkway  
 New Haven, CT 06512

## Sample Information

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

## Custody Information

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

## Date

03/01/15  
 03/04/15

## Time

8:00  
 15:17

## Laboratory Data

SDG ID: GBH79281  
 Phoenix ID: BH79281

Project ID: NPDES  
 Client ID: [REDACTED] 2015 NPDES

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Arsenic	< 5.7	5.7	mg/Kg	03/05/15	EK	SW6010C
Beryllium	< 2.8	2.8	mg/Kg	03/05/15	EK	SW6010C
Cadmium	< 2.8	2.8	mg/Kg	03/05/15	EK	SW6010C
Chromium	11.8	2.8	mg/Kg	03/05/15	EK	SW6010C
Copper	668	2.8	mg/Kg	03/05/15	EK	SW6010C
Mercury	0.94	0.20	mg/kg	03/09/15	RS	SW7471B
Nickel	10.7	2.8	mg/Kg	03/05/15	EK	SW6010C
Lead	21.4	2.8	mg/Kg	03/05/15	EK	SW6010C
Zinc	492	2.8	mg/Kg	03/05/15	EK	SW6010C
Percent Solid	3.60	1	%			SW846-%Solid
Total Solids @ 104C	3.60	0.1	%	03/05/15	KH	SM2540B-97
Fixed Solids @ 500C	6.6	0.1	%	03/05/15	KH	E160.4
pH - Sludge	5.85	0.10	pH Units	03/04/15 20:00	DH/KDB	SW9045
Volatile Solids @ 500C	93.4	0.1	%	03/05/15	KH	SM2540E/E160.4
Mercury Digestion	Completed			03/09/15	I/I	SW7471B
Sludge Ext. for PCB	Completed			03/06/15	M/M	SW3550C
Total Metals Digest	Completed			03/04/15	CB/AG	SW3050B

## Polychlorinated Biphenyls

PCB-1016	ND	2700	ug/Kg	03/09/15	AW	SW8082A
PCB-1221	ND	2700	ug/Kg	03/09/15	AW	SW8082A
PCB-1232	ND	2700	ug/Kg	03/09/15	AW	SW8082A
PCB-1242	ND	2700	ug/Kg	03/09/15	AW	SW8082A
PCB-1248	ND	2700	ug/Kg	03/09/15	AW	SW8082A
PCB-1254	ND	2700	ug/Kg	03/09/15	AW	SW8082A
PCB-1260	ND	2700	ug/Kg	03/09/15	AW	SW8082A
PCB-1262	ND	2700	ug/Kg	03/09/15	AW	SW8082A
PCB-1268	ND	2700	ug/Kg	03/09/15	AW	SW8082A

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
<b><u>QA/QC Surrogates</u></b>						
% DCBP	90		%	03/09/15	AW	30 - 150 %
% TCMX	66		%	03/09/15	AW	30 - 150 %

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

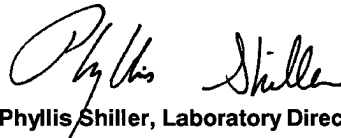
**Comments:**

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**

**March 10, 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

# QA/QC Report

March 10, 2015

## QA/QC Data

SDG I.D.: GBH79281

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 301050, QC Sample No: BH76398 (BH79281)												
Mercury - Soil	BRL	<0.03	<0.03	NC	120	116	3.4	128	130	1.6	70 - 130	30
Comment:												
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.												
QA/QC Batch 300784, QC Sample No: BH79120 (BH79281)												
<b><u>ICP Metals - Soil</u></b>												
Arsenic	BRL	2.6	3.50	NC	109	109	0.0	97.2	96.9	0.3	75 - 125	30
Beryllium	BRL	0.63	0.59	NC	107	106	0.9	96.0	95.2	0.8	75 - 125	30
Cadmium	BRL	<0.43	<0.41	NC	103	103	0.0	102	101	1.0	75 - 125	30
Chromium	BRL	17.9	16.8	6.30	121	120	0.8	109	108	0.9	75 - 125	30
Copper	BRL	20.9	24.1	14.2	110	112	1.8	115	113	1.8	75 - 125	30
Lead	BRL	16.2	17.9	10.0	105	105	0.0	99.1	99.4	0.3	75 - 125	30
Nickel	BRL	14.7	15.8	7.20	117	117	0.0	106	105	0.9	75 - 125	30
Zinc	BRL	42.1	45.6	8.00	105	105	0.0	109	107	1.9	75 - 125	30

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

March 10, 2015

## QA/QC Data

SDG I.D.: GBH79281

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 300826, QC Sample No: BH78634 (BH79281)												
Total Solids	BRL	19.3	19.3	0	100						85 - 115	30
QA/QC Batch 300817, QC Sample No: BH79277 (BH79281)												
pH - Soil		10.93	10.89	0.40	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

March 10, 2015

## QA/QC Data

SDG I.D.: GBH79281

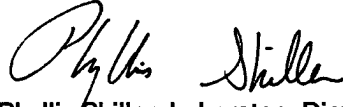
Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 300430, QC Sample No: BH77604 (BH79281)									
<b>Polychlorinated Biphenyls - Sludge</b>									
PCB-1016	ND	67	66	1.5				40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	82	78	5.0				40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	87	91	81	11.6				30 - 150	30
% TCMX (Surrogate Rec)	72	74	66	11.4				30 - 150	30

**Comment:**

A LCS and LCSD 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  
 March 10, 2015

Tuesday, March 10, 2015

## Sample Criteria Exceedences Report

GBH79281 - SYN-NH

Page 1 of 1

Criteria: None

State: CT

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.



**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: mmadden@synagro.com

Temp 6 Pg of \_\_\_\_\_

Customer: SYNAGRO (NHRLP)  
 Address: 345 East Shore Parkway  
New Haven, CT 06512

Project: NPDES  
 Report to: Mike Madden  
 Invoice to: Accounts Payable

Project P.O:  
 Phone #: 203-469-0402  
 Fax #: 203-469-0418

Sampler's Signature: Mike Madden Date: 3-3-15

Client Sample - Information - Identification

Matrix Code: WW=wastewater S=soil/solid O=oil  
GW=drinking water SL=sludge A=air X=other

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
19281	[REDACTED]	SL	3/1/15	0800
	2015 NPDES			

Analysis Request	Soils (%) (S)	(M) (M)	(P) (P)	(R) (R)	(K) (K)	(Y) (Y)
Soil Vial (16 oz)	X	X	X	X	X	X
Soil container (64 oz)	X	X	X	X	X	X
Soil container (16 oz)						
40 ml VOA Vial (As Is)						
GL Anker 100ml (As Is)						
PL As Is (125ml)						
PL H2SO4 (125ml)						
PL HNO3 280ml						
PL NAOH 250ml						
Soils Bagged						

Relinquished by: \_\_\_\_\_ Accepted by: \_\_\_\_\_  
 Date: 3/1/15 Time: 10:17  
 Turnaround:  1 Day\*  2 Days\*  3 Days\*  Standard  Other

Comments, Special Requirements or Regulations:

CT/RI:  RCP Cert  GW Protect  GA Mobility  GB Mobility  SW Protection  Res. Vol.  Ind. Vol.  Res. Criteria  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:  ASP-A  NJ Reduced Deliv. \*  NJ Hazsite EDD  Phoenix Std Report  Other

State where samples were collected: CT

M46

~~Selenium 5/20/15~~



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

# Draft Progress Report

May 20, 2015

FOR: Attn: Mr. Mike Madden  
SYNAGRO (NHRLP)  
345 East Shore Parkway  
New Haven, CT 06512

### Sample Information

Matrix: SLUDGE  
Location Code: SYN-NH  
Rush Request: 24 Hour  
P.O.#:

### Custody Information

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

### Date

05/19/15 6:00  
05/19/15 16:38

### Time

## Laboratory Data

SDG ID: GBJ18955  
Phoenix ID: BJ18955

Project ID: LIQUID SLUDGE TESTING  
Client ID: ~~XXXXXXXXXX~~

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Selenium	6.1	1.1	mg/Kg	1	05/20/15	LK	SW6010C
Total Solids @ 104C	5.03	0.1	%	1	05/20/15	KH/KDB	SM2540B-97
pH - Sludge	6.01	0.10	pH Units	1	05/19/15 20:10	DH/KDB	SW9045
Total Metals Digest	Completed				05/19/15	CB/AG	SW3050B

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-tir

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.

PLEASE NOTE: THIS PROGRESS REPORT IS CONSIDERED PRELIMINARY DATA. THE RESULTS ENTERED HAVE NOT BEEN EXAMINED BY OUR QA/QC DEPARTMENT.

Phyllis Shiller, Laboratory Director  
May 20, 2015



Wednesday, May 20, 2015

Criteria: None

State: CT

## Sample Criteria Exceedences Report

GBJ18955 - SYN-NH

SampNo	Acode	Phoenix Analyte	Criteria	Result	R
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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 accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately to determine appropriate compliance.

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90110121P

**CHAIN OF CUSTODY RECORD**



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
Email: info@phoenixlabs.com Fax (860) 645-0832

Client Services (860) 645-8726

Customer: SYNAGRO (NHRLP) #SYNAGRO  
Address: 345 East Shore Parkway  
New Haven, CT 06512

Project: Liquid Sludge Testing  
Report to: Mike Macdon  
Invoice to: Accounts Payable

Project P.O.:  
Phone #: 203-469-0402  
Fax #: 203-469-0418

Data Delivery:  
 Fax # \_\_\_\_\_  
 Email: mmacedon@synagro.com

Temp \_\_\_\_\_ Pa \_\_\_\_\_ of \_\_\_\_\_

Client Sample Identification  
Date: 5-19-15  
Signature: *Mike Macdon*

Matrix Codes: DW=drinking water GW=groundwater	WW=wastewater SL=sludge	S=solid A=air	O=oil X=other	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
				Ansonia, CT	SL	5/19/15	0800
				Bridgeport, CT - East	SL	5/19/15	0800
				Bridgeport, CT - West	SL	5/19/15	0800
				New Canaan, CT	SL	5/19/15	0800
				Nonotuk, CT	SL	5/19/15	0800

Analysis Request	SR	KA	VA	MS	TR	PM	MT	ST	OT

Ballot requested by: *Mike Macdon*  
Accepted by: *Mike Macdon*  
Date: 5/19/15 2:00  
Time: 5/19/15 10:38

Turnaround:  
 1 Day  
 2 Days  
 3 Days  
 Standby  
 Other

CTRI  
 RCPI Cell  
 GW Perfor  
 GA Mobility  
 GS Mobility  
 SW Protection  
 Res. Vol.  
 Ind. Vol.  
 Res. Criteria  
 Other

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

Data Format:  
 Excel  
 PDF  
 GISKey  
 EQUIS  
 Other

Data Package:  
 ASP-A  
 NJ Reduced Deliv.  
 NJ Hazmat SUD  
 Phoenix Std Report  
 Other

Comments, Special Requirements or Regulations:  
 Please leave results in separate reports.  
 Please turnaround ASAP.  
 Thank you, Mike

LOCATION CODE (SYNAGRO)

State where samples were collected: CT

**REPORT OF ANALYTICAL RESULTS**

**NETLAB Case Number B0514-21C**

Prepared for:

Attn: Wes Plummer  
Synagro  
15 Cumberland Hill Rd.  
Woonsocket, RI 02895

Report Date: May 15, 2015



---

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 14, 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 is B0514-21C.

Custody records are included in this report.

**TABLE I, Samples Submitted**

Sample ID	Date Sampled	Matrix	Analysis Requested
[REDACTED]	5/14/2015	Other	Table II

**TABLE II, Analysis and Methods**

ANALYSIS	PREPARATION METHOD	DETERMINATIVE METHOD
Total Metals		
Selenium	3050B	6010C

These methods are documented in:

*Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, USEPA/OSW.*

## **CASE NARRATIVE**

The sample was received at 2 Deg. C. All analyses were performed within EPA designated holding-times. Procedure calibration checks required by the designated protocols were within control limits.

## **METALS RESULTS**

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Metals Analysis Department certifies that the results included in this section have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

METALS RESULTS



Case Number: B0514-21C  
 Sample ID: [REDACTED]  
 Date collected: 5/14/15  
 Matrix: SOLID  
 Solids, %: 6.91 SJC/AM  
 Sample Type: Total

		Preparative	Analytical		Reporting		Date of	Date
Parameter	CAS Number	Method	Method	Result	Limit	Units	Preparation	Analyzed
Selenium	7782-49-2	3050B	6010C	ND	4.74	mg/kg	5/15/15	5/15/15

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Sample ID: Preparation Blank  
 Matrix SOIL  
 Solids, % 100 SJC/AM  
 Sample Type: Total

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Units	Date of Preparation	Date Analyzed
Selenium	7782-49-2	3050B	6010C	ND	0.67	mg/kg	5/15/15	5/15/15

ND indicates Not Detected.

All results are reported on a dry weight basis.



## LABORATORY CONTROL SAMPLE RECOVERY

Internal

Parameter	True Value	Result	Units	Recovery, %	LCL, %	UCL, %	Date Analyzed
Selenium	20.0	19.3	mg/kg	97	85	115	5/15/15

New England Testing Laboratory, Inc.

BOS14-21C

Brywick

NEW ENGLAND TESTING LABORATORY, INC.  
 1254 Douglas Avenue  
 North Providence, RI 02904  
 1-888-863-8522

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME/LOCATION	RECOMMENDATIONS				NO. OF CONTAINERS	REPRESENTATIVE	REMARKS
		ASBESTOS	SOIL	OTHER				
	Woonsocket Syngro							
DATE	TIME	GRAB	SAMPLE I.D.					
5/14/15			Brown Ford WWTP	✓	1	NONP		
5/14/15			Mystic WPEF	✓	1	NONP		
5/14/15			Pawcatuck WPEF	✓	1	NONP		
5/14/15			Groton City	✓	1	NONP		
5/14/15			Stonington (Raw Sludge)	✓	1	NONP		
Sampled by: (Signature)		Date/Time		Received by: (Signature)		Date/Time		
[Signature]		5/14/15		[Signature]		5/14/15 16:40		
Relinquished by: (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		
[Signature]		5/14/15 17:20		[Signature]		5/14/15 17:20		
Special Instructions: List Specific Detection Limit Requirements:		Laboratory Remarks: Temp. received: 22C Cooled <input checked="" type="checkbox"/>		Turnaround (Business Days):		24 hours		

\*\*Netlab subcontractors the following tests: Radiologicals, Radon, Asbestos, UCMRs, Perchlorate, Bromate, Bromide, Sieve, Salmonella, Carbamates

M64



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

# Analysis Report

September 22, 2015

FOR: [REDACTED]  
[REDACTED]  
[REDACTED]

## Sample Information

Matrix: SLUDGE  
Location Code: [REDACTED]  
Rush Request: Standard  
P.O.#: 221398

## Custody Information

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

Date Time  
09/15/15 7:55  
09/15/15 15:31

## Laboratory Data

SDG ID: GBJ92021  
Phoenix ID: BJ92021

Project ID: SEPTEMBER NPDES  
Client ID: SLUDGE

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	3.23	0.55	mg/Kg	1	09/16/15	LK	SW6010C
Aluminum	34200	33	mg/Kg	100	09/17/15	EK	SW6010C
Arsenic	1.3	1.1	mg/Kg	1	09/16/15	EK	SW6010C
Barium	322	0.55	mg/Kg	1	09/16/15	EK	SW6010C
Beryllium	< 0.55	0.55	mg/Kg	1	09/16/15	EK	SW6010C
Cadmium	< 0.55	0.55	mg/Kg	1	09/16/15	EK	SW6010C
Chromium	39.3	0.55	mg/Kg	1	09/16/15	EK	SW6010C
Copper	537	5.5	mg/Kg	10	09/16/15	EK	SW6010C
Mercury	0.43	0.13	mg/kg	1	09/16/15	RS	SW7471B
Nickel	9.65	0.55	mg/Kg	1	09/16/15	EK	SW6010C
Lead	26.2	0.55	mg/Kg	1	09/16/15	EK	SW6010C
Selenium	< 2.7	2.7	mg/Kg	1	09/16/15	EK	SW6010C
Zinc	549	5.5	mg/Kg	10	09/16/15	EK	SW6010C
Percent Solid	20.9	1	%				SW846-%Solid
Total Solids @ 104C	20.9	0.1	%	1	09/16/15	KH	SM2540B-97
Fixed Solids @ 500C	21.2	0.1	%	1	09/16/15	KH	E160.4
pH - Sludge	5.67	0.10	pH Units	1	09/16/15 21:00	DH/KDB	SW9045
Phosphorus, Total	18700	240	mg/Kg	100	09/17/15	MA	SM4500PE-99
Volatile Solids @ 500C	78.8	0.1	%	1	09/16/15	KH	SM2540E/E160.4-9
Mercury Digestion	Completed				09/16/15	I/I	SW7471B
Sludge Ext. for PCB	Completed				09/16/15	B/T	SW3550C
Total Metals Digest	Completed				09/15/15	G/AG	SW3050B

## Polychlorinated Biphenyls

PCB-1016	ND	460	ug/Kg	1	09/17/15	AW	SW8082A
PCB-1221	ND	460	ug/Kg	1	09/17/15	AW	SW8082A
PCB-1232	ND	460	ug/Kg	1	09/17/15	AW	SW8082A
PCB-1242	ND	460	ug/Kg	1	09/17/15	AW	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1248	ND	460	ug/Kg	1	09/17/15	AW	SW8082A
PCB-1254	ND	460	ug/Kg	1	09/17/15	AW	SW8082A
PCB-1260	ND	460	ug/Kg	1	09/17/15	AW	SW8082A
PCB-1262	ND	460	ug/Kg	1	09/17/15	AW	SW8082A
PCB-1268	ND	460	ug/Kg	1	09/17/15	AW	SW8082A
<b><u>QA/QC Surrogates</u></b>							
% DCBP	118		%	1	09/17/15	AW	30 - 150 %
% TCMX	82		%	1	09/17/15	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

September 22, 2015

Reviewed and Released by: Deb Lawrie, Project Manager

[REDACTED]

M46

~~of selenium, no pH 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 17, 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: LPB  
Analyzed by: see "By" below

### Date Time

04/07/15 0:00  
04/10/15 18:05

## Laboratory Data

SDG ID: GBJ01262  
Phoenix ID: BJ01281

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

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.2	0.8	mg/Kg	1	04/12/15	EK	SW6010C
Beryllium	< 0.38	0.38	mg/Kg	1	04/12/15	EK	SW6010C
Calcium	8280	5.7	mg/Kg	1	04/12/15	EK	SW6010C
Cadmium	0.81	0.38	mg/Kg	1	04/12/15	EK	SW6010C
Chromium	12.7	0.38	mg/Kg	1	04/12/15	EK	SW6010C
Copper	272	3.8	mg/Kg	10	04/12/15	EK	SW6010C
Mercury	0.46	0.11	mg/kg	1	04/14/15	RS	SW7471B
Molybdenum	3.98	0.38	mg/Kg	1	04/12/15	EK	SW6010C
Nickel	11.1	0.38	mg/Kg	1	04/12/15	EK	SW6010C
Lead	27.2	0.38	mg/Kg	1	04/12/15	EK	SW6010C
→ Selenium	2.9	1.9	mg/Kg	1	04/12/15	EK	SW6010C
Zinc	654	3.8	mg/Kg	10	04/12/15	EK	SW6010C
Total Solids @ 104C	22.3	0.1	%	1	04/14/15	KH	SM2540B-97
Fixed Solids @ 500C	16.9	0.1	%	1	04/14/15	KH	E160.4
Volatile Solids @ 500C	83.1	0.1	%	1	04/14/15	KH	SM2540E/E160.4-9
Mercury Digestion	Completed				04/14/15	IR	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	410	ug/Kg	1	04/17/15	AW	SW8082A
PCB-1221	ND	410	ug/Kg	1	04/17/15	AW	SW8082A
PCB-1232	ND	410	ug/Kg	1	04/17/15	AW	SW8082A
PCB-1242	ND	410	ug/Kg	1	04/17/15	AW	SW8082A
PCB-1248	ND	410	ug/Kg	1	04/17/15	AW	SW8082A
PCB-1254	ND	410	ug/Kg	1	04/17/15	AW	SW8082A
PCB-1260	ND	410	ug/Kg	1	04/17/15	AW	SW8082A
PCB-1262	ND	410	ug/Kg	1	04/17/15	AW	SW8082A

Client ID: ██████████

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1268	ND	410	ug/Kg	1	04/17/15	AW	SW8082A
<b><u>QA/QC Surrogates</u></b>							
% DCBP	155		%	1	04/17/15	AW	30 - 150 % <sup>3</sup>
% TCMX	124		%	1	04/17/15	AW	30 - 150 %

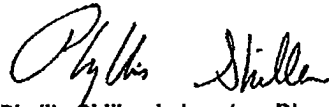
3 = This parameter exceeds laboratory specified limits.

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



**CHAIN OF CUSTODY RECORD**

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

Client Services (860) 645-8726

Temp 4-10-15 Pg 3 of 6  
 Data Delivery:  
 Fax #:  
 Email: kohaln@synagro.com

Customer: SYNAGRO NE #SYNAGRO Project: Customer Sludge Quarterly Analysis Project P.O.:  
 Address: 189 Municipal Road Report to: James Pratt Phone #: 203-754-9337  
Waterbury, CT 08708 Invoice to: James Pratt Fax #: 203-754-9475

Client Sample Information - Identification  
 Sampler's Signature: Chris Yocher Date: 4-10-15

Analysis Request  
 % Total Solids  
 As. Bb. Ca. Cd. Cr. Cu. Hg  
 No. Ni. Pb. Se. Zn  
 % Volatile Solids  
 % Fixed Solids  
 500 VOCs (Vins) | Inorganic | Soil Residues  
 Cl. Sediment (S2) | Inorg  
 40 ml VOCs (V4) | Inorg  
 Cl. Amber (A200) | Inorg  
 Pl. As. Is | 12500 | 15000 | 17500  
 Pl. 12500 | 15000 | 17500  
 Pl. 15000 | 17500  
 Bacteria Counts

Matrix Code:  
 DW=drinking water WW=wastewater S=sol/solid O=oil  
 GW=groundwater SL=sludge A=air X=other

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Tissue Sampled	% Total Solids	As	Bb	Ca	Cd	Cr	Cu	Hg	No	Ni	Pb	Se	Zn	% Volatile Solids	% Fixed Solids	500 VOCs (Vins)   Inorganic   Soil Residues	Cl. Sediment (S2)   Inorg	40 ml VOCs (V4)   Inorg	Cl. Amber (A200)   Inorg	Pl. As. Is   12500   15000   17500	Pl. 12500   15000   17500	Pl. 15000   17500	Bacteria Counts
01262	South Hadley	SL	4-7		X	X	X	X	X	X	X	X															
01263	Woodsoket	SL	4-7		X	X	X	X	X	X	X	X															
01264	Wallkill	SL	4-7		X	X	X	X	X	X	X	X															
01265	E. H. C.	SL	4-7		X	X	X	X	X	X	X	X															
01266	Beaver Brooks	SL	4-8		X	X	X	X	X	X	X	X															
01267	Cheshire	SL	4-8		X	X	X	X	X	X	X	X															
01268	Catskill	SL	4-8		X	X	X	X	X	X	X	X															
01269	Meriden	SL	4-8		X	X	X	X	X	X	X	X															
01270	E. H. M.	SL	4-8		X	X	X	X	X	X	X	X															
01271	Greenwich	SL	4-9		X	X	X	X	X	X	X	X															
01272	Housatonic	SL	4-9		X	X	X	X	X	X	X	X															
01273	Wallkill Food	SL	4-9		X	X	X	X	X	X	X	X															

Relinquished by: C. Yocher Accepted by: Pratt Date: 4-10-15 Time: 2:25 PM  
Ben Cup Pratt 4-10-15 10:05

Turnaround:  
 1 Day  
 2 Days  
 3 Days  
 Standard  
 Other

CT/RI  
 RCP Cert  
 GW Protect  
 GA Mobility  
 GB Mobility  
 SW Protection  
 Res. Vol.  
 Ind. Vol.  
 Res. Criteria  
 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  
 ASP-A  
 NJ Reduced Data  
 NJ Hazsite EDO  
 Phoenix Std Report

Comments, Special Requirements or Regulations:

State where samples were collected: CT



**CHAIN OF CUSTODY RECORD**

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

Client Services (860) 645-8728

Temp Yonkers Pg 4 of 6  
 Data Delivery:  
 Fax #:  
 Email: kuhali@synagro.com

Customer: SYNAGRO NE #SYNAGRO Project: Customer Sludge Quarterly Analysis Project P.O.:  
 Address: 199 Municipal Road Report to: James Pratt Phone #: 203-754-9337  
Waterbury, CT 06708 Invoice to: James Pratt Fax #: 203-754-9475

Sampler's Signature Chris Yehm Date: 4-10-15

Analysis Request  
 % Total Solids  
 As Pb Cd Cr Cu Hg  
 Mo Ni Pb Se Zn  
 Total PCBs  
 % Volatile Solids  
 % Fixed Solids  
 Sol VOA Vials | Inorganic | Top Residues  
 G: Soil container (12) or  
 G: Soil container |  
 40 ml VOA Vial | As | Pb |  
 G: Amber 100ml | As | Pb |  
 PL H2SO4 | 125ml | 150ml | 100ml  
 PL HNO3 25ml  
 Becham Bottle

Matrix Code:  
 DW-drinking water WW-wastewater S-soil/solid O-oil  
 GW-groundwater SL-sludge A-air X-other

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	% Total Solids	As	Pb	Cd	Cr	Cu	Hg	Mo	Ni	Pb	Se	Zn	Total PCBs	% Volatile Solids	% Fixed Solids
01274	Norwalk	SL	4-7		X	X	X	X	X	X	X								
01275	Waterbury	SL	4-7		X	X	X	X	X	X	X								
01276	G. Barrington	SL	4-7		X	X	X	X	X	X	X								
01277	No. Brookfield	SL	4-7		X	X	X	X	X	X	X								
01278	Montgomery	SL	4-7		X	X	X	X	X	X	X								
01279	Liberty	SL	4-7		X	X	X	X	X	X	X								
01280	Lenox	SL	4-7		X	X	X	X	X	X	X								
01281	Norwalk	SL	4-7		X	X	X	X	X	X	X								
01282	Waltham	SL	4-7		X	X	X	X	X	X	X								
01283	Adam's	SL	4-7		X	X	X	X	X	X	X								
01284	Derby	SL	4-7		X	X	X	X	X	X	X								
01285	Orange County	SL	4-7		X	X	X	X	X	X	X								

Relinquished by: G. Yehm Accounted by: Bradley Date: 4-10-15 Time: 12:30  
 Turnaround:  1 Day\*  2 Days\*  3 Days\*  Standard  Other  
 \*SURCHARGE APPLIES  
 CT/RI:  RCP Cert  GW Protect  GA Mobility  GB Mobility  SW Protection  Res. Vol.  Ind. Vol.  Res. Criteria  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:  ASP-A  NJ Reduced Deliv. \*  NJ HazMat EDD  Phoenix Std Report  
 Comments, Special Requirements or Regulations:  
 State where samples were collected: CT