Appendix 5

2018 MS4 Stormwater Annual Report

Water Testing Data

Part 1

TABLE 1
STORMWATER LABORATORY ANALYTICAL RESULTS

[illegible]
NEW HAVEN, CONNECTICUT

			Field Parameters		Laboratory Analytical Parameters																	
Sampling Location	River	Sample Date	pH	Turbidity	Boron (mg/L)	Hardness CaCO3 (mg/L)	Chlorine Residual (mg/L)	COD (mg/L)	MBAS (mg/L)	Ammonia as Nitrogen (mg/L)	Nitrite (mg/L)	Nitrate-N (mg/L)	Oil and Grease (mg/L)	TKN (mg/L)	Total P (mg/L)	TSS (mg/L)	Escherichia Coli (MPN/100 mls)	Enterococci Bacteria (MPN/100mls)	Fecal Coliforms MPN (MPN/100mls)	Total Coliforms (MPN/100mls)	Conductivity (umhos/cm)	Salinity (ppt)
O180	Quinnipiac	6/21/18	7.04	6.37	**0.05**	**220**	<0.02	<10	<0.05	**0.08**	**0.0[illegible]**	**2.23**	<1.4	**0.82**	**0.123**	**8.0**	**616**	**>24,200**	**605**	**>24,200**	**678**	<0.5
CB3140	Quinnipiac	6/21/18	6.85	160.5	**0.06**	**115**	<0.02	**305**	**1.15**	**3.80**	**0.044**	**1.27**	**4.4**	**8.17**	**0.959**	**76**	**1,660**	**6,870**	**1,350**	**>24200**	**165**	<0.5
CB3154D	Quinnipiac	6/21/18	6.58	218.3	<0.05	**11.1**	<0.02	**164**	**0.89**	**0.80**	**0.0[illegible]4**	**0.68**	**11**	**2.65**	**0.460**	**110**	**1,860**	**>24,200**	**>24,200**	**>24,200**	**92**	<0.5
CB3145	Quinnipiac	6/21/18	6.97	36.42	<0.05	**5.4**	<0.02	**368**	**0.56**	**0.42**	**0.[illegible]**	**0.67**	**4.8**	**4.99**	**1.25**	**26**	**>24,200**	**>24,200**	**>24,200**	**>24,200**	**38**	<0.5
CB3163	Quinnipiac	6/21/18	6.81	181.5	<0.05	**94.5**	<0.02	**276**	**0.54**	**2.04**	**0.[illegible]**	<0.02	**3.7**	**6.17**	**1.940**	**100**	**3,870**	**2,480**	**17,300**	**>24,200**	**299**	<0.5
CB3111	Quinnipiac	6/21/18	6.89	386.2	<0.05	**33.0**	<0.02	**257**	**0.49**	**2.98**	**0.[illegible]**	**0.05**	**4.9**	**6.88**	**1.510**	**340**	**>24,200**	**>24,200**	**19,900**	**>24200**	**169**	<0.5
CB3245	Quinnipiac	6/21/18	6.63	204.5	<0.05	**25.3**	<0.02	**212**	**0.98**	**1.06**	**0.[illegible]**	**1.00**	**5.7**	**2.77**	**0.471**	**120**	**789**	**2,360**	**884**	**>24,200**	**506**	<0.5
O119	Mill	6/28/18	6.95	303.0	<0.05	**43.2**	<0.02	**204**	**0.67**	**0.42**	**0.[illegible]**	**0.15**	**2.7**	**3.32**	**0.545**	**200**	**3,450**	**12,000**	**4,110**	**>242,000**	**112**	<0.5
CB9268	Mill	6/28/18	7.00	298.0	<0.05	**4.5**	<0.02	**90**	**0.23**	**0.18**	<0.01	**0.25**	**1.6**	**1.48**	**0.295**	**280**	**9,800**	**27,600**	**7,270**	**>242,000**	**28**	<0.5
CB8843	Mill	6/28/18	6.55	224.9	<0.05	**15.4**	<0.02	**124**	**0.11**	**0.28**	<0.01	**0.12**	**3.5**	**1.58**	**0.476**	**140**	**15,500**	**29,100**	**5,170**	**>242000**	**14**	<0.5
CB8818	Mill	6/28/18	6.89	66.86	<0.05	**4.9**	<0.02	**40**	<0.10	**0.08**	<0.01	**0.09**	<1.4	**1.16**	**0.231**	**48**	**24,200**	**61,300**	**17,300**	**>242,000**	**16**	<0.5
CB8810	Mill	6/28/18	6.65	45.26	<0.05	**4.4**	**0.03**	**25**	<0.10	**0.20**	<0.01	**0.14**	<1.4	**0.91**	**0.249**	**30**	**15,500**	**19,900**	**11,200**	**>242,000**	**16**	<0.5
CB8803	Mill	6/28/18	6.71	43.79	<0.05	**3.0**	<0.02	**38**	**0.11**	**0.09**	<0.01	**0.14**	**1.5**	**0.60**	**0.177**	**24**	**36,500**	**19,900**	**19,900**	**>242,000**	**20**	<0.5
CB8494	Mill	6/28/18	6.80	48.50	<0.05	**2.7**	<0.02	**31**	**0.11**	**0.46**	<0.01	**0.23**	<1.4	**1.45**	**0.254**	**39**	**2,910**	**24,200**	**1,350**	**>242,000**	**25**	<0.5

Notes:
Turbidity and pH field tested by ATC
Concentrations in **bold** were reported above the laboratory reporting limits
mg/l: milligrams per liter
TKN = Nitrogen Tot Kjeldahl
< 0.5: indicates compound was Not Detected at or above the specified laboratory reporting limit
>24,200: Indicates sample was found above the laboratory detection limit

PHOENIX
Environmental Laboratories, Inc.

Monday, July 02, 2018

Mr. Luke Whitehouse
ATC Group Services, LLC
33 Business Park Dr.
Branford, CT 06405

Project ID: 209118
Sample ID#s: CA75265 - CA75271

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. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

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

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
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
UT Lab Registration #CT00007
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
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ACCREDITED IN ACCORDANCE WITH nelac
NY # 11301

SDG Comments

July 02, 2018

SDG I.D.: GCA75265

Metals Analysis:
The client requested a site specific list of elements which is shorter than the RCP list.

Non RCP analyses are included with this report. The RCP narrative is provided at the request of the client.

Temperature above 6C:
The samples were received in a cooler with ice packs. The samples were delivered to the Laboratory within a short period of time after sample collection. Therefore no significant bias is suspected.

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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Analysis Report

July 02, 2018

FOR: Mr. Luke Whitehouse
ATC Group Services, LLC
33 Business Park Dr.
Branford, CT 06405

Sample Information		Custody Information		Date	Time
Matrix:	STORM WATER	Collected by:		06/21/18	1:40
Location Code:	ATC-BRAN	Received by:	CP	06/21/18	7:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA75265
Phoenix ID: CA75265

Project ID: 209118
Client ID: 0180

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	0.05	0.05	mg/L	1	06/28/18	EK	SW6010C
Hardness (CaCO3)	220	0.1	mg/L	1	06/29/18		E200.7
[illegible]	616	[illegible]	MPN/100 mls	[illegible]	[illegible]	KDB/KDB	SM9223B-04
Enterococci Bacteria	>24200	10	MPN/100 mls	10	06/21/18 08:35	KDB/KDB	Enterolert
Fecal Coliforms MPN	605	10	MPN/100 mls	1	06/21/18 09:00	KDB/KDB	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	06/21/18 08:15	KDB/KDB	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	06/21/18 20:48	O	SM4500Cl-G-00
C.O.D.	< 10	10	mg/L	1	06/22/18	KMH/MSF	SM5220D-11
Conductivity	678	5.00	umhos/cm	1	06/22/18	RWR/KDB	SM2510B-11
MBAS	< 0.05	0.05	mg/L	1	06/21/18 23:55	XS	SM5540 C-11
Ammonia as Nitrogen	0.08	0.05	mg/L	1	06/22/18	WHM	E350.1
Nitrite-N	0.033	0.010	mg/L	1	06/21/18 17:05	MC	E353.2
Nitrate-N	2.23	0.10	mg/L	5	06/21/18 17:06	MC	E353.2
Oil and Grease by EPA 1664A	< 1.4	1.4	mg/L	1	06/22/18	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	06/21/18	RWR	SM2520B-10
Nitrogen Tot Kjeldahl	0.82	0.10	mg/L	1	06/22/18	WHM	E351.1
Phosphorus, as P	0.123	0.010	mg/L	1	06/21/18	MI	SM4500PE-11
Total Suspended Solids	8.0	5.0	mg/L	1	06/22/18	DA/KH	SM2540D-11
Total Metals Digestion	Completed				06/27/18	AG	

Project ID: 209118
Client ID: 0180

Phoenix I.D.: CA75265

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

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

Phyllis Shiller, Laboratory Director
July 02, 2018
Reviewed and Released by: Maryam Taylor, Project Manager

PHOENIX

Environmental Laboratories, Inc.
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Analysis Report

July 02, 2018

FOR: Mr. Luke Whitehouse
ATC Group Services, LLC
33 Business Park Dr.
Branford, CT 06405

Sample Information		Custody Information		Date	Time
Matrix:	STORM WATER	Collected by:		06/21/18	1:55
Location Code:	ATC-BRAN	Received by:	CP	06/21/18	7:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA75265
Phoenix ID: CA75266

Project ID: 209118
Client ID: 3140

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	0.06	0.05	mg/L	1	06/28/18	EK	SW6010C
Hardness (CaCO3)	115	0.1	mg/L	1	06/28/18		E200.7
[illegible]	1680	10	MPN/100 mls	10	[illegible] 08:15	KDB/KDB	SM9223B-04
Enterococci Bacteria	6870	10	MPN/100 mls	10	06/21/18 08:35	KDB/KDB	Enterolert
Fecal Coliforms MPN	1350	10	MPN/100 mls	1	06/21/18 09:00	KDB/KDB	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	06/21/18 08:15	KDB/KDB	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	06/21/18 20:48	O	SM4500Cl-G-00
C.O.D.	305	10	mg/L	1	06/22/18	KMH/MSF	SM5220D-11
Conductivity	165	5.00	umhos/cm	1	06/22/18	RWR/KDB	SM2510B-11
MBAS	1.15	0.10	mg/L	2	06/21/18 23:56	XS	SM5540 C-11
Ammonia as Nitrogen	3.80	0.25	mg/L	5	06/22/18	WHM	E350.1
Nitrite-N	0.044	0.010	mg/L	1	06/21/18 17:07	MC	E353.2
Nitrate-N	1.27	0.02	mg/L	1	06/21/18 17:07	MC	E353.2
Oil and Grease by EPA 1664A	4.4	1.4	mg/L	1	06/22/18	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	06/21/18	RWR	SM2520B-10
Nitrogen Tot Kjeldahl	8.17	0.50	mg/L	5	06/22/18	WHM	E351.1
Phosphorus, as P	0.959	0.050	mg/L	5	06/21/18	MI	SM4500PE-11
Total Suspended Solids	76	5.0	mg/L	1	06/22/18	DA/KH	SM2540D-11
Total Metals Digestion	Completed				06/27/18	AG	

Project ID: 209118
Client ID: 3140

Phoenix I.D.: CA75266

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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Phyllis Shiller, Laboratory Director
July 02, 2018
Reviewed and Released by: Maryam Taylor, Project Manager

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Analysis Report

July 02, 2018

FOR: Mr. Luke Whitehouse
ATC Group Services, LLC
33 Business Park Dr.
Branford, CT 06405

Sample Information		Custody Information		Date	Time
Matrix:	STORM WATER	Collected by:		06/21/18	3:30
Location Code:	ATC-BRAN	Received by:	CP	06/21/18	7:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA75265
Phoenix ID: CA75267

Project ID: 209118
Client ID: 3154D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	< 0.05	0.05	mg/L	1	06/28/18	EK	SW6010C
Hardness (CaCO3)	11.1	0.1	mg/L	1	06/28/18		E200.7
Escherichia Coli	1860	10	MPN/100 mls	10	06/21/18 08:15	KDB/KDB	SM9223B-04
Enterococci Bacteria	>24200	10	MPN/100 mls	10	06/21/18 08:35	KDB/KDB	Enterolert
Fecal Coliforms MPN	>24200	10	MPN/100 mls	1	06/21/18 09:00	KDB/KDB	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	06/21/18 08:15	KDB/KDB	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	06/21/18 20:51	O	SM4500Cl-G-00
C.O.D.	164	10	mg/L	1	06/22/18	KMH/MSF	SM5220D-11
Conductivity	92	5.00	umhos/cm	1	06/22/18	RWR/KDB	SM2510B-11
MBAS	0.89	0.10	mg/L	2	06/21/18 23:56	XS	SM5540 C-11
Ammonia as Nitrogen	0.80	0.25	mg/L	5	06/22/18	WHM	E350.1
Nitrite-N	0.054	0.010	mg/L	1	06/21/18 17:08	MC	E353.2
Nitrate-N	0.68	0.02	mg/L	1	06/21/18 17:08	MC	E353.2
Oil and Grease by EPA 1664A	11	1.4	mg/L	1	06/22/18	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	06/21/18	RWR	SM2520B-10
Nitrogen Tot Kjeldahl	2.65	0.50	mg/L	5	06/22/18	WHM	E351.1
Phosphorus, as P	0.460	0.010	mg/L	1	06/21/18	MI	SM4500PE-11
Total Suspended Solids	110	10	mg/L	2	06/22/18	DA/KH	SM2540D-11
Total Metals Digestion	Completed				06/27/18	AG	

Project ID: 209118
Client ID: 3154D

Phoenix I.D.: CA75267

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

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Phyllis Shiller, Laboratory Director
July 02, 2018
Reviewed and Released by: Maryam Taylor, Project Manager

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Analysis Report

July 02, 2018

FOR: Mr. Luke Whitehouse
ATC Group Services, LLC
33 Business Park Dr.
Branford, CT 06405

Sample Information		Custody Information		Date	Time
Matrix:	STORM WATER	Collected by:		06/21/18	2:30
Location Code:	ATC-BRAN	Received by:	CP	06/21/18	7:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA75265
Phoenix ID: CA75268

Project ID: 209118
Client ID: 3145

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	< 0.05	0.05	mg/L	1	06/28/18	EK	SW6010C
Hardness (CaCO3)	5.4	0.1	mg/L	1	06/28/18		E200.7
Escherichia Coli	>24200	10	MPN/100 mls	[illegible]	06/21/18 08:15	KDB/KDB	SM9223B-04
Enterococci Bacteria	>24200	10	MPN/100 mls	10	06/21/18 08:35	KDB/KDB	Enterolert
Fecal Coliforms MPN	>24200	10	MPN/100 mls	1	06/21/18 09:00	KDB/KDB	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	06/21/18 08:15	KDB/KDB	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	06/21/18 20:51	O	SM4500Cl-G-00
C.O.D.	368	10	mg/L	1	06/22/18	KMH/MSF	SM5220D-11
Conductivity	38	5.00	umhos/cm	1	06/22/18	RWR/KDB	SM2510B-11
MBAS	0.56	0.10	mg/L	2	06/21/18 23:57	XS	SM5540 C-11
Ammonia as Nitrogen	0.42	0.25	mg/L	5	06/22/18	WHM	E350.1
Nitrite-N	0.033	0.010	mg/L	1	06/21/18 17:09	MC	E353.2
Nitrate-N	0.67	0.02	mg/L	1	06/21/18 17:09	MC	E353.2
Oil and Grease by EPA 1664A	4.8	1.4	mg/L	1	06/22/18	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	06/21/18	RWR	SM2520B-10
Nitrogen Tot Kjeldahl	4.99	0.50	mg/L	5	06/22/18	WHM	E351.1
Phosphorus, as P	1.25	0.050	mg/L	5	06/21/18	MI	SM4500PE-11
Total Suspended Solids	26	10	mg/L	2	06/22/18	DA/KH	SM2540D-11
Total Metals Digestion	Completed				06/27/18	AG	

Project ID: 209118
Client ID: 3145

Phoenix I.D.: CA75268

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

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Phyllis Shiller, Laboratory Director
July 02, 2018
Reviewed and Released by: Maryam Taylor, Project Manager

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

Analysis Report

July 02, 2018

FOR: Mr. Luke Whitehouse
ATC Group Services, LLC
33 Business Park Dr.
Branford, CT 06405

Sample Information		Custody Information		Date	Time
Matrix:	STORM WATER	Collected by:		06/21/18	3:45
Location Code:	ATC-BRAN	Received by:	CP	06/21/18	7:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA75265
Phoenix ID: CA75269

Project ID: 209118
Client ID: 3163

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	< 0.05	0.05	mg/L	1	06/28/18	EK	SW6010C
Hardness (CaCO3)	94.5	0.1	mg/L	1	06/28/18		E200.7
Escherichia Coli	360	10	MPN/100 mls	10	06/21/18 08:15	KDB/KDB	SM9223B-04
Enterococci Bacteria	2480	10	MPN/100 mls	10	06/21/18 08:35	KDB/KDB	Enterolert
Fecal Coliforms MPN	17300	10	MPN/100 mls	1	06/21/18 09:00	KDB/KDB	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	06/21/18 08:15	KDB/KDB	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	06/21/18 20:52	O	SM4500Cl-G-00
C.O.D.	276	10	mg/L	1	06/22/18	KMH/MSF	SM5220D-11
Conductivity	299	5.00	umhos/cm	1	06/22/18	RWR/KDB	SM2510B-11
MBAS	0.54	0.10	mg/L	2	06/22/18 22:14	X	SM5540 C-11
Ammonia as Nitrogen	2.04	0.25	mg/L	5	06/22/18	WHM	E350.1
Nitrite-N	0.168	0.010	mg/L	1	06/21/18 17:10	MC	E353.2
Nitrate-N	< 0.02	0.02	mg/L	1	06/21/18 17:10	MC	E353.2
Oil and Grease by EPA 1664A	3.7	1.4	mg/L	1	06/22/18	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	06/21/18	RWR	SM2520B-10
Nitrogen Tot Kjeldahl	6.17	0.50	mg/L	5	06/22/18	WHM	E351.1
Phosphorus, as P	1.94	0.050	mg/L	5	06/21/18	MI	SM4500PE-11
Total Suspended Solids	100	10	mg/L	2	06/22/18	DA/KH	SM2540D-11
Total Metals Digestion	Completed				06/27/18	AG	

Project ID: 209118
Client ID: 3163

Phoenix I.D.: CA75269

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
July 02, 2018
Reviewed and Released by: Maryam Taylor, Project Manager

PHOENIX

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

Analysis Report

July 02, 2018

FOR: Mr. Luke Whitehouse
ATC Group Services, LLC
33 Business Park Dr.
Branford, CT 06405

Sample Information		Custody Information		Date	Time
Matrix:	STORM WATER	Collected by:		06/21/18	3:55
Location Code:	ATC-BRAN	Received by:	CP	06/21/18	7:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA75265
Phoenix ID: CA75270

Project ID: 209118
Client ID: 3111

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	< 0.05	0.05	mg/L	1	06/28/18	MA	SW6010C
Hardness (CaCO3)	33.0	0.1	mg/L	1	06/29/18		E200.7
Escherichia Coli	>24200	10	MPN/100 mls	10	06/21/18 08:15	KDB/KDB	SM9223B-04
Enterococci Bacteria	>24200	10	MPN/100 mls	10	06/21/18 08:35	KDB/KDB	Enterolert
Fecal Coliforms MPN	19900	10	MPN/100 mls	1	06/21/18 09:00	KDB/KDB	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	06/21/18 08:15	KDB/KDB	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	06/21/18 20:53	O	SM4500Cl-G-00
C.O.D.	257	10	mg/L	1	06/22/18	KMH/MSF	SM5220D-11
Conductivity	169	5.00	umhos/cm	1	06/22/18	RWR/KDB	SM2510B-11
MBAS	0.49	0.10	mg/L	2	06/22/18 22:14	X	SM5540 C-11
Ammonia as Nitrogen	2.98	0.25	mg/L	5	06/25/18	WHM	E350.1
Nitrite-N	0.492	0.020	mg/L	2	06/21/18 17:11	MC	E353.2
Nitrate-N	0.05	0.04	mg/L	2	06/21/18 17:11	MC	E353.2
Oil and Grease by EPA 1664A	4.9	1.4	mg/L	1	06/22/18	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	06/21/18	RWR	SM2520B-10
Nitrogen Tot Kjeldahl	6.88	0.50	mg/L	5	06/25/18	WHM	E351.1
Phosphorus, as P	1.51	0.050	mg/L	5	06/21/18	MI	SM4500PE-11
Total Suspended Solids	340	10	mg/L	2	06/22/18	DA/KH	SM2540D-11
Total Metals Digestion	Completed				06/27/18	AG	

Project ID: 209118
Client ID: 3111

Phoenix I.D.: CA75270

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

If there are any questions regarding this data, please call Phoenix Client Services.
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July 02, 2018
Reviewed and Released by: Maryam Taylor, Project Manager

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Analysis Report

July 02, 2018

FOR: Mr. Luke Whitehouse
ATC Group Services, LLC
33 Business Park Dr.
Branford, CT 06405

Sample Information		Custody Information		Date	Time
Matrix:	STORM WATER	Collected by:		06/21/18	1:45
Location Code:	ATC-BRAN	Received by:	CP	06/21/18	7:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA75265
Phoenix ID: CA75271

Project ID: 209118
Client ID: 3245

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	< 0.05	0.05	mg/L	1	06/28/18	MA	SW6010C
Hardness (CaCO3)	25.3	0.1	mg/L	1	06/29/18		E200.7
Escherichia Coli	789	10	MPN/100 mls	10	06/24/18 08:15	KDB/KDB	SM9223B-04
Enterococci Bacteria	2360	10	MPN/100 mls	10	06/21/18 08:35	KDB/KDB	Enterolert
Fecal Coliforms MPN	884	10	MPN/100 mls	1	06/21/18 09:00	KDB/KDB	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	06/21/18 08:15	KDB/KDB	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	06/21/18 20:55	O	SM4500Cl-G-00
C.O.D.	212	10	mg/L	1	06/22/18	KMH/MSF	SM5220D-11
Conductivity	506	5.00	umhos/cm	1	06/22/18	RWR/KDB	SM2510B-11
MBAS	0.98	0.10	mg/L	2	06/22/18 22:15	X	SM5540 C-11
Ammonia as Nitrogen	1.06	0.25	mg/L	5	06/25/18	WHM	E350.1
Nitrite-N	0.056	0.010	mg/L	1	06/21/18 17:23	MC	E353.2
Nitrate-N	1.00	0.02	mg/L	1	06/21/18 17:23	MC	E353.2
Oil and Grease by EPA 1664A	5.7	1.4	mg/L	1	06/22/18	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	06/21/18	RWR	SM2520B-10
Nitrogen Tot Kjeldahl	2.77	0.50	mg/L	5	06/25/18	WHM	E351.1
Phosphorus, as P	0.471	0.010	mg/L	1	06/21/18	MI	SM4500PE-11
Total Suspended Solids	120	5.0	mg/L	1	06/22/18	DA/KH	SM2540D-11
Total Metals Digestion	Completed				06/27/18	AG	

Project ID: 209118
Client ID: 3245

Phoenix I.D.: CA75271

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
July 02, 2018
Reviewed and Released by: Maryam Taylor, Project Manager

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QA/QC Report

July 02, 2018

QA/QC Data

SDG I.D.: GCA75265

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 436430 (mg/L), QC Sample No: CA75265 (CA75265, CA75266, CA75267, CA75268, CA75269, CA75270, CA75271)													
ICP Metals - Aqueous													
Boron	BRL	0.05	0.05	0.05	NC	99.8			105			75 - 125	20

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QA/QC Report

July 02, 2018

QA/QC Data

SDG I.D.: GCA75265

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 435827 (mg/L), QC Sample No: CA73421 (CA75265, CA75266, CA75267)													
C.O.D.	BRL	10	25	25	NC	100			101			85 - 115	20
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 435619 (mg/L), QC Sample No: CA74673 (CA75265, CA75266, CA75267, CA75268, CA75269)													
Ammonia as Nitrogen	BRL	0.05	24.4	25.6	4.80	97.9			98.5			90 - 110	20
Nitrogen Tot Kjeldahl	BRL	0.10	34.8	35.9	3.10	98.8			97.5			85 - 115	20
Comment:													
TKN is reported as Organic Nitrogen in the Blank, LCS, DUP and MS.													
QA/QC Batch 435590 (mg/L), QC Sample No: CA74682 (CA75265, CA75266, CA75267, CA75268, CA75269, CA75270, CA75271)													
Phosphorus, as P	BRL	0.01	3.54	3.62	2.20	102			101			85 - 115	20
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 435650 (mg/L), QC Sample No: CA74718 (CA75265, CA75266, CA75267, CA75268, CA75269, CA75270)													
Nitrate-N	BRL	0.02	0.21	0.22	4.70	105			108			90 - 110	20
Nitrite-N	BRL	0.01	<0.010	<0.01	NC	105			106			90 - 110	20
QA/QC Batch 435936 (mg/L), QC Sample No: CA74915 (CA75270, CA75271)													
Ammonia as Nitrogen	BRL	0.05	0.27	0.25	7.70	106			101			90 - 110	20
Nitrogen Tot Kjeldahl	BRL	0.10	1.56	1.52	2.60	104			105			85 - 115	20
Comment:													
TKN is reported as Organic Nitrogen in the Blank, LCS, DUP and MS.													
QA/QC Batch 435703 (mg/L), QC Sample No: CA75080 (CA75265, CA75271)													
Total Suspended Solids	BRL	5.0	8.0	8.0	NC	92.0						85 - 115	20
QA/QC Batch 435685 (mg/L), QC Sample No: CA75265 (CA75265, CA75266, CA75267, CA75268, CA75269, CA75270, CA75271)													
Chlorine Residual	BRL	0.02	<0.02	<0.02	NC	89.0							
QA/QC Batch 435684 (mg/L), QC Sample No: CA75265 (CA75265, CA75266, CA75267, CA75268)													
MBAS	BRL	0.05	<0.05	0.07	NC	106			115			85 - 115	20
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 435850 (mg/L), QC Sample No: CA75270 (CA75269, CA75270, CA75271)													
MBAS	BRL	0.05	0.49	0.58	16.8	104			104			85 - 115	20
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 435828 (mg/L), QC Sample No: CA75321 (CA75268, CA75269, CA75270, CA75271)													
C.O.D.	BRL	10	35	35	NC	102			106			85 - 115	20
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 435698 (mg/L), QC Sample No: CA75362 (CA75265, CA75266, CA75267, CA75268, CA75269, CA75270, CA75271)													
Oil and Grease by EPA 1664A	BRL	1.4	<1.4	<1.4	NC	96.0			95.0			85 - 115	20

QA/QC Data

SDG I.D.: GCA75265

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Comment:													
Additional: MS acceptance range 75-125%.													
QA/QC Batch 435707 (mg/L), QC Sample No: CA75385 (CA75266, CA75267, CA75268, CA75269, CA75270)													
Total Suspended Solids	BRL	5.0	<5.0	<5.0	NC	95.0						85 - 115	20
QA/QC Batch 435652 (mg/L), QC Sample No: CA75428 (CA75271)													
Nitrate-N	BRL	0.02	0.03	0.03	NC	105			104			90 - 110	20
Nitrite as Nitrogen	BRL	0.01	0.04	<0.01	NC	105			100			90 - 110	20
QA/QC Batch 435761 (umhos/cm), QC Sample No: CA76175 (CA75265, CA75266, CA75267, CA75268, CA75269, CA75270, CA75271)													
Conductivity	BRL	5.00	373	382	2.40	92.1						85 - 115	20
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													

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
July 02, 2018

Monday, July 02, 2018

Criteria: None

State: CT

Sample Criteria Exceedances Report

GCA75265 - ATC-BRAN

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

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance 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.

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. ***Client:*** ATC Group Services, LLC

Project Location: 209118 ***Project Number:***

Laboratory Sample ID(s): CA75265-CA75271 ***Sampling Date(s):*** 6/21/2018

List RCP Methods Used (e.g., 8260, 8270, et cetera) None

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)**	☐ Yes ☐ No ☑ NA
2	**Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?**	☑ Yes ☐ No
3	**Were samples received at an appropriate temperature (< 6 Degrees C)?**	☐ Yes ☑ No ☐ NA
4	**Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?**	☑ Yes ☐ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?** **b) Were these reporting limits met?**	☐ Yes ☑ No ☑ Yes ☐ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☐ Yes ☑ No
7	**Are project-specific matrix spikes and laboratory duplicates included in the data set?**	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Maryam Taylor **Position:** Project Manager

Printed Name: Maryam Taylor **Date:** Monday, July 02, 2018

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

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ACCREDITED IN ACCORDANCE WITH nelac
NY # 11301

RCP Certification Report

July 02, 2018

SDG I.D.: GCA75265

SDG Comments

Metals Analysis:
The client requested a site specific list of elements which is shorter than the RCP list.

Non RCP analyses are included with this report. The RCP narrative is provided at the request of the client.

Temperature above 6C:
The samples were received in a cooler with ice packs. The samples were delivered to the Laboratory within a short period of time after sample collection. Therefore no significant bias is suspected.

Wet Chemistry Analysis

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

BECKMAN DU720 #2 06/21/18-4 Michael Tran, Chemist 06/21/18

CA75265, CA75266, CA75267, CA75268, CA75269, CA75270, CA75271

BECKMAN DU720 06/21/18-1

CA75265, CA75266, CA75267, CA75268

The initial calibration met all criteria including a standard run at the reporting level.
All method verification standards and blanks met criteria.

BECKMAN DU720 06/22/18-1 Katherine Brown, Chemist 06/22/18

CA75269, CA75270, CA75271

The initial calibration met all criteria including a standard run at the reporting level.
All method verification standards and blanks met criteria.

HACH DR 5000 06/22/18-1

CA75265, CA75266, CA75267, CA75268, CA75269, CA75270, CA75271

The initial calibration met all criteria including a standard run at the reporting level.
All method verification standards and blanks met criteria.

QC (Batch Specific):

Batch 435590 (CA74682)

CA75265, CA75266, CA75267, CA75268, CA75269, CA75270, CA75271

All LCS recoveries were within 85 - 115 with the following exceptions: None.
Additional criteria matrix spike acceptance range is 75-125%.

Batch 435698 (CA75362)

CA75265, CA75266, CA75267, CA75268, CA75269, CA75270, CA75271

All LCS recoveries were within 85 - 115 with the following exceptions: None.
Additional: MS acceptance range 75-125%.
Additional criteria matrix spike acceptance range is 75-125%.

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NY # 11301

RCP Certification Report

July 02, 2018

SDG I.D.: GCA75265

Wet Chemistry Analysis

Batch 435703 (CA75080)

CA75265, CA75271

All LCS recoveries were within 85 - 115 with the following exceptions: None.
Additional criteria matrix spike acceptance range is 75-125%.

Batch 435707 (CA75385)

CA75266, CA75267, CA75268, CA75269, CA75270

All LCS recoveries were within 85 - 115 with the following exceptions: None.
Additional criteria matrix spike acceptance range is 75-125%.

Batch 435761 (CA76175)

CA75265, CA75266, CA75267, CA75268, CA75269, CA75270, CA75271

All LCS recoveries were within 85 - 115 with the following exceptions: None.
Additional criteria matrix spike acceptance range is 75-125%.

Batch 435827 (CA73421)

CA75265, CA75266, CA75267

All LCS recoveries were within 85 - 115 with the following exceptions: None.
Additional criteria matrix spike acceptance range is 75-125%.

Batch 435828 (CA75321)

CA75268, CA75269, CA75270, CA75271

All LCS recoveries were within 85 - 115 with the following exceptions: None.
Additional criteria matrix spike acceptance range is 75-125%.

QC (Site Specific):

Batch 435684 (CA75265)

CA75265, CA75266, CA75267, CA75268

All LCS recoveries were within 85 - 115 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.
Additional criteria matrix spike acceptance range is 75-125%.

Batch 435850 (CA75270)

CA75269, CA75270, CA75271

All LCS recoveries were within 85 - 115 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.
Additional criteria matrix spike acceptance range is 75-125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

BLUE 06/28/18 10:22 Emily Kolominskaya, Mike Arsenault, Chemist 06/28/18

CA75265, CA75266, CA75267, CA75268, CA75269, CA75270, CA75271

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration

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NY # 11301

Certification Report

July 02, 2018

SDG I.D.: GCA75265

ICP Metals Narration

range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Site Specific):

Batch 436430 (CA75265)

CA75265, CA75266, CA75267, CA75268, CA75269, CA75270, CA75271

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.

LACHAT

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

LACHAT 06/21/18-1 Mike Cottle, Chemist 06/21/18

CA75265, CA75266, CA75267, CA75268, CA75269, CA75270, CA75271

The initial calibration met all criteria including a standard run at the reporting level.
All method verification standards and blanks met criteria.

QC (Batch Specific):

Batch 435650 (CA74718)

CA75265, CA75266, CA75267, CA75268, CA75269, CA75270

All LCS recoveries were within 90 - 110 with the following exceptions: None.

Batch 435652 (CA75428)

CA75271

All LCS recoveries were within 90 - 110 with the following exceptions: None.

NITROGEN

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

LACHAT 06/22/18-1 William H. McKernan, Chemist 06/22/18

CA75265, CA75266, CA75267, CA75268, CA75269

The initial calibration met all criteria including a standard run at the reporting level.
All method verification standards and blanks met criteria.

LACHAT 06/25/18-1 William H. McKernan, Chemist 06/25/18

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NY # 11301

RCP Certification Report

July 02, 2018

SDG I.D.: GCA75265

NITROGEN

CA75270, CA75271

The initial calibration met all criteria including a standard run at the reporting level.
All method verification standards and blanks met criteria.

QC (Batch Specific):

Batch 435619 (CA74673)

CA75265, CA75266, CA75267, CA75268, CA75269

All LCS recoveries were within 85 - 115 with the following exceptions: None.
TKN is reported as Organic Nitrogen in the Blank, LCS, DUP and MS.

Batch 435936 (CA74915)

CA75270, CA75271

All LCS recoveries were within 85 - 115 with the following exceptions: None.
TKN is reported as Organic Nitrogen in the Blank, LCS, DUP and MS.

Temperature Narration

The samples were received at 9.8C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [ ] ICE [X] No [ ]

CHAIN OF CUSTODY RECORD

Temp 9.8 °C Pg of

PHOENIX Environmental Laboratories, Inc.

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 #:
[X] Email: Luke.Whitehouse@atcgs.com

Customer: ATC Group Services
Address: 33 Business Park Dr
Branford, CT 06405

Project: 209118
Report to: Luke Whitehouse
Invoice to: ATC
Phone #: (203) 498-9481
Fax #:

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature _____ Date: _____

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Oil + Grease	Hardness, Boron	Cl, Cond	TSS	Alkalinity, Surfactants	NH3, NO2, NO3	COD, TP, TKN	Total & E Coli	Fecal, Enterococci	Soil VOA Vials [ ] methanol	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [X] H2SO4	PL As is [ ] 250ml [ ] 500ml [X] 1000ml	PL H2SO4 [ ] 250ml [X] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria (as is)	Bacteria (w/thio)
75265	0180	SW	6-21-18	01:40	X	X	X	X	X	X	X						1	1	1	1		1	
75266	3140	SW		01:55	X	X	X	X	X	X	X						1	1	1	1		1	
75267	3154D	SW		03:30	X	X	X	X	X	X	X						1	1	1	1		1	
75268	3145	SW		02:30	X	X	X	X	X	X	X						1	1	1	1		1	
75269	3163	SW		03:40	X	X	X	X	X	X	X						1	1	1	1		1	
75270	3111	SW		03:55	X	X	X	X	X	X	X						1	1	1	1		1	
75271	3245	SW	6-21-18	01:45	X	X	X	X	X	X	X						1	1	1	1		1	

Relinquished by:	Accepted by:	Date:	Time:
[signature]	K Della Bella	6/21/18	7:26

Comments, Special Requirements or Regulations:

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] Direct Exposure (Residential)
[ ] GW
[ ] Other

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

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

State where samples were collected: _____

Data Format
[ ] Excel
[ ] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[ ] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

PHOENIX
Environmental Laboratories, Inc.

Friday, July 06, 2018

Attn: Luke Whitehouse
ATC Group Services, LLC
33 Business Park Dr.
Branford, CT 06405

Project ID: 204118 NEW HAVEN SW
Sample ID#s: CA80079 - CA80085

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. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

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 #M-CT007
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
UT Lab Registration #CT00007
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

PHOENIX

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

Analysis Report

July 06, 2018

FOR: Attn: Luke Whitehouse
ATC Group Services, LLC
33 Business Park Dr.
Branford, CT 06405

Sample Information		Custody Information		Date	Time
Matrix:	STORM WATER	Collected by:		06/28/18	5:45
Location Code:	ATC-BRAN	Received by:	CP	06/28/18	9:09
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA80079
Phoenix ID: CA80079

Project ID: 204118 NEW HAVEN SW
Client ID: 0119

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	< 0.05	0.05	mg/L	1	07/02/18	EK	SW6010C
Hardness (CaCO3)	43.2	0.1	mg/L	1	07/03/18		E200.7
Escherichia Coli	5450	10	MPN/100 mls	10	06/28/18 10:00	KDB/KDB	SM9223B-04
Enterococci Bacteria	12000	10	MPN/100 mls	10	06/28/18 10:15	KDB/KDB	Enterolert
Fecal Coliforms MPN	4110	10	MPN/100 mls	1	06/28/18 10:30	KDB/KDB	Colilert-18
Total Coliforms	>242000	100	MPN/100 mls	100	06/28/18 10:00	KDB/KDB	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	06/28/18 18:59	O	SM4500Cl-G-00
C.O.D.	204	10	mg/L	1	06/29/18	KMH	SM5220D-11
Conductivity	112	5.00	umhos/cm	1	06/29/18	RWR/KDB	SM2510B-11
MBAS	0.67	0.10	mg/L	2	06/29/18 00:25	X	SM5540 C-11
Ammonia as Nitrogen	0.42	0.10	mg/L	2	07/03/18	WHM	E350.1
Nitrite-N	0.012	0.010	mg/L	1	06/28/18 17:51	MC	E353.2
Nitrate-N	0.15	0.02	mg/L	1	06/28/18 17:51	MC	E353.2
Oil and Grease by EPA 1664A	2.7	1.4	mg/L	1	06/29/18	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	06/28/18	RWR	SM2520B-10
Nitrogen Tot Kjeldahl	3.32	0.20	mg/L	2	07/03/18	WHM	E351.1
Phosphorus, as P	0.545	0.010	mg/L	1	07/02/18	MI	SM4500PE-11
Total Suspended Solids	200	5.0	mg/L	1	06/28/18	DA/KH	SM2540D-11
Total Metals Digestion	Completed				06/29/18	AG	

Project ID: 204118 NEW HAVEN SW
Client ID: 0119

Phoenix I.D.: CA80079

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

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

Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

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

Analysis Report

July 06, 2018

FOR: Attn: Luke Whitehouse
ATC Group Services, LLC
33 Business Park Dr.
Branford, CT 06405

Sample Information		Custody Information		Date	Time
Matrix:	STORM WATER	Collected by:		06/28/18	5:49
Location Code:	ATC-BRAN	Received by:	CP	06/28/18	9:09
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA80079
Phoenix ID: CA80080

Project ID: 204118 NEW HAVEN SW
Client ID: 9268

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	< 0.05	0.05	mg/L	1	07/02/18	EK	SW6010C
Hardness (CaCO3)	4.5	0.1	mg/L	1	07/03/18		E200.7
Escherichia Coli	9800	10	MPN/100 mls	10	06/28/18 10:00	KDB/KDB	SM9223B-04
Enterococci Bacteria	27600	100	MPN/100 mls	100	06/28/18 10:15	KDB/KDB	Enterolert
Fecal Coliforms MPN	7270	10	MPN/100 mls	1	06/28/18 10:30	KDB/KDB	Colilert-18
Total Coliforms	>242000	100	MPN/100 mls	100	06/28/18 10:00	KDB/KDB	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	06/28/18 19:00	O	SM4500Cl-G-00
C.O.D.	90	10	mg/L	1	06/29/18	KMH	SM5220D-11
Conductivity	28	5.00	umhos/cm	1	06/29/18	RWR/KDB	SM2510B-11
MBAS	0.23	0.10	mg/L	2	06/29/18 00:25	X	SM5540 C-11
Ammonia as Nitrogen	0.18	0.05	mg/L	1	07/03/18	WHM	E350.1
Nitrite-N	< 0.010	0.010	mg/L	1	06/28/18 17:52	MC	E353.2
Nitrate-N	0.25	0.02	mg/L	1	06/28/18 17:52	MC	E353.2
Oil and Grease by EPA 1664A	1.6	1.4	mg/L	1	06/29/18	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	06/28/18	RWR	SM2520B-10
Nitrogen Tot Kjeldahl	1.48	0.10	mg/L	1	07/03/18	WHM	E351.1
Phosphorus, as P	0.295	0.010	mg/L	1	07/02/18	MI	SM4500PE-11
Total Suspended Solids	280	5.0	mg/L	1	06/28/18	DA/KH	SM2540D-11
Total Metals Digestion	Completed				06/29/18	AG	

Project ID: 204118 NEW HAVEN SW
Client ID: 9268

Phoenix I.D.: CA80080

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

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

Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

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

Analysis Report

July 06, 2018

FOR: Attn: Luke Whitehouse
ATC Group Services, LLC
33 Business Park Dr.
Branford, CT 06405

Sample Information		Custody Information		Date	Time
Matrix:	STORM WATER	Collected by:		06/28/18	5:58
Location Code:	ATC-BRAN	Received by:	CP	06/28/18	9:09
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA80079
Phoenix ID: CA80081

Project ID: 204118 NEW HAVEN SW
Client ID: 8843

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	< 0.05	0.05	mg/L	1	07/02/18	EK	SW6010C
Hardness (CaCO3)	15.4	0.1	mg/L	1	07/03/18		E200.7
Escherichia Coli	15500	10	MPN/100 mls	10	06/28/18 10:00	KDB/KDB	SM9223B-04
Enterococci Bacteria	29100	100	MPN/100 mls	100	06/28/18 10:15	KDB/KDB	Enterolert
Fecal Coliforms MPN	5170	10	MPN/100 mls	1	06/28/18 10:30	KDB/KDB	Colilert-18
Total Coliforms	>242000	100	MPN/100 mls	100	06/28/18 10:00	KDB/KDB	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	06/28/18 19:01	O	SM4500Cl-G-00
C.O.D.	124	10	mg/L	1	06/29/18	KMH	SM5220D-11
Conductivity	14	5.00	umhos/cm	1	06/29/18	RWR/KDB	SM2510B-11
MBAS	0.11	0.10	mg/L	2	06/29/18 00:26	X	SM5540 C-11
Ammonia as Nitrogen	0.28	0.10	mg/L	2	07/03/18	WHM	E350.1
Nitrite-N	< 0.010	0.010	mg/L	1	06/28/18 17:53	MC	E353.2
Nitrate-N	0.12	0.02	mg/L	1	06/28/18 17:53	MC	E353.2
Oil and Grease by EPA 1664A	3.5	1.4	mg/L	1	06/29/18	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	06/28/18	RWR	SM2520B-10
Nitrogen Tot Kjeldahl	1.58	0.20	mg/L	2	07/03/18	WHM	E351.1
Phosphorus, as P	0.476	0.010	mg/L	1	07/02/18	MI	SM4500PE-11
Total Suspended Solids	140	5.0	mg/L	1	06/28/18	DA/KH	SM2540D-11
Total Metals Digestion	Completed				06/29/18	AG	

Project ID: 204118 NEW HAVEN SW
Client ID: 8843

Phoenix I.D.: CA80081

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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Analysis Report

July 06, 2018

FOR: Attn: Luke Whitehouse
ATC Group Services, LLC
33 Business Park Dr.
Branford, CT 06405

Sample Information		Custody Information		Date	Time
Matrix:	STORM WATER	Collected by:		06/28/18	6:06
Location Code:	ATC-BRAN	Received by:	CP	06/28/18	9:09
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA80079
Phoenix ID: CA80082

Project ID: 204118 NEW HAVEN SW
Client ID: 8818

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	< 0.05	0.05	mg/L	1	06/29/18	MA	SW6010C
Hardness (CaCO3)	4.9	0.1	mg/L	1	07/02/18		E200.7
Escherichia Coli	24200	10	MPN/100 mls	10	06/28/18 10:00	KDB/KDB	SM9223B-04
Enterococci Bacteria	61300	100	MPN/100 mls	100	06/28/18 10:15	KDB/KDB	Enterolert
Fecal Coliforms MPN	17300	10	MPN/100 mls	1	06/28/18 10:30	KDB/KDB	Colilert-18
Total Coliforms	>242000	100	MPN/100 mls	100	06/28/18 10:00	KDB/KDB	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	06/28/18 19:02	O	SM4500Cl-G-00
C.O.D.	40	10	mg/L	1	06/29/18	KMH	SM5220D-11
Conductivity	16	5.00	umhos/cm	1	06/29/18	RWR/KDB	SM2510B-11
MBAS	< 0.10	0.10	mg/L	2	06/30/18 05:23	TH	SM5540 C-11
Ammonia as Nitrogen	0.08	0.05	mg/L	1	07/03/18	WHM	E350.1
Nitrite-N	< 0.010	0.010	mg/L	1	06/28/18 18:04	MC	E353.2
Nitrate-N	0.09	0.02	mg/L	1	06/28/18 18:04	MC	E353.2
Oil and Grease by EPA 1664A	< 1.4	1.4	mg/L	1	06/29/18	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	06/28/18	RWR	SM2520B-10
Nitrogen Tot Kjeldahl	1.16	0.10	mg/L	1	07/03/18	WHM	E351.1
Phosphorus, as P	0.231	0.010	mg/L	1	07/02/18	MI	SM4500PE-11
Total Suspended Solids	48	5.0	mg/L	1	06/28/18	DA/KH	SM2540D-11
Total Metals Digestion	Completed				06/28/18	AG	

Project ID: 204118 NEW HAVEN SW
Client ID: 8818

Phoenix I.D.: CA80082

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

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

Analysis Report

July 06, 2018

FOR: Attn: Luke Whitehouse
ATC Group Services, LLC
33 Business Park Dr.
Branford, CT 06405

Sample Information		Custody Information		Date	Time
Matrix:	STORM WATER	Collected by:		06/28/18	6:14
Location Code:	ATC-BRAN	Received by:	CP	06/28/18	9:09
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA80079
Phoenix ID: CA80083

Project ID: 204118 NEW HAVEN SW
Client ID: 8810

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	< 0.05	0.05	mg/L	1	06/29/18	MA	SW6010C
Hardness (CaCO3)	4.4	0.1	mg/L	1	07/02/18		E200.7
Escherichia Coli	15500	10	MPN/100 mls	10	06/28/18 10:00	KDB/KDB	SM9223B-04
Enterococci Bacteria	19900	10	MPN/100 mls	10	06/28/18 10:15	KDB/KDB	Enterolert
Fecal Coliforms MPN	11200	10	MPN/100 mls	1	06/28/18 10:30	KDB/KDB	Colilert-18
Total Coliforms	>242000	100	MPN/100 mls	100	06/28/18 10:00	KDB/KDB	SW9223B-06
Chlorine Residual	0.03	0.02	mg/L	1	06/28/18 19:03	O	SM4500Cl-G-00
C.O.D.	25	10	mg/L	1	06/29/18	KMH	SM5220D-11
Conductivity	16	5.00	umhos/cm	1	06/29/18	RWR/KDB	SM2510B-11
MBAS	< 0.10	0.10	mg/L	2	06/30/18 05:23	TH	SM5540 C-11
Ammonia as Nitrogen	0.20	0.05	mg/L	1	07/03/18	WHM	E350.1
Nitrite-N	< 0.010	0.010	mg/L	1	06/28/18 18:05	MC	E353.2
Nitrate-N	0.14	0.02	mg/L	1	06/28/18 18:05	MC	E353.2
Oil and Grease by EPA 1664A	< 1.4	1.4	mg/L	1	06/29/18	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	06/28/18	RWR	SM2520B-10
Nitrogen Tot Kjeldahl	0.91	0.10	mg/L	1	07/03/18	WHM	E351.1
Phosphorus, as P	0.249	0.010	mg/L	1	07/02/18	MI	SM4500PE-11
Total Suspended Solids	30	5.0	mg/L	1	06/28/18	DA/KH	SM2540D-11
Total Metals Digestion	Completed				06/28/18	AG	

Project ID: 204118 NEW HAVEN SW
Client ID: 8810

Phoenix I.D.: CA80083

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

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

Analysis Report

July 06, 2018

FOR: Attn: Luke Whitehouse
ATC Group Services, LLC
33 Business Park Dr.
Branford, CT 06405

Sample Information		Custody Information		Date	Time
Matrix:	STORM WATER	Collected by:		06/28/18	6:21
Location Code:	ATC-BRAN	Received by:	CP	06/28/18	9:09
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA80079
Phoenix ID: CA80084

Project ID: 204118 NEW HAVEN SW
Client ID: 8803

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	< 0.05	0.05	mg/L	1	06/29/18	MA	SW6010C
Hardness (CaCO3)	3.0	0.1	mg/L	1	07/02/18		E200.7
Escherichia Coli	36500	100	MPN/100 mls	100	06/28/18 10:00	KDB/KDB	SM9223B-04
Enterococci Bacteria	19900	10	MPN/100 mls	10	06/28/18 10:15	KDB/KDB	Enterolert
Fecal Coliforms MPN	19900	10	MPN/100 mls	1	06/28/18 10:30	KDB/KDB	Colilert-18
Total Coliforms	>242000	100	MPN/100 mls	100	06/28/18 10:00	KDB/KDB	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	06/28/18 19:04	O	SM4500Cl-G-00
C.O.D.	38	10	mg/L	1	06/29/18	KMH	SM5220D-11
Conductivity	20	5.00	umhos/cm	1	06/29/18	RWR/KDB	SM2510B-11
MBAS	0.11	0.10	mg/L	2	06/30/18 05:23	TH	SM5540 C-11
Ammonia as Nitrogen	0.09	0.05	mg/L	1	07/03/18	WHM	E350.1
Nitrite-N	< 0.010	0.010	mg/L	1	06/28/18 18:06	MC	E353.2
Nitrate-N	0.14	0.02	mg/L	1	06/28/18 18:06	MC	E353.2
Oil and Grease by EPA 1664A	1.5	1.4	mg/L	1	06/29/18	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	06/28/18	RWR	SM2520B-10
Nitrogen Tot Kjeldahl	0.60	0.10	mg/L	1	07/03/18	WHM	E351.1
Phosphorus, as P	0.177	0.010	mg/L	1	07/02/18	MI	SM4500PE-11
Total Suspended Solids	24	5.0	mg/L	1	06/28/18	DA/KH	SM2540D-11
Total Metals Digestion	Completed				06/28/18	AG	

Project ID: 204118 NEW HAVEN SW
Client ID: 8803

Phoenix I.D.: CA80084

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

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

Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

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

Analysis Report

July 06, 2018

FOR: Attn: Luke Whitehouse
ATC Group Services, LLC
33 Business Park Dr.
Branford, CT 06405

Sample Information		Custody Information		Date	Time
Matrix:	STORM WATER	Collected by:		06/28/18	6:27
Location Code:	ATC-BRAN	Received by:	CP	06/28/18	9:09
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA80079
Phoenix ID: CA80085

Project ID: 204118 NEW HAVEN SW
Client ID: 8494

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	< 0.05	0.05	mg/L	1	06/29/18	MA	SW6010C
Hardness (CaCO3)	2.7	0.1	mg/L	1	07/02/18		E200.7
Escherichia Coli	2910	10	MPN/100 mls	10	06/28/18 10:00	KDB/KDB	SM9223B-04
Enterococci Bacteria	24200	10	MPN/100 mls	10	06/28/18 10:15	KDB/KDB	Enterolert
Fecal Coliforms MPN	1350	10	MPN/100 mls	1	06/28/18 10:30	KDB/KDB	Colilert-18
Total Coliforms	>242000	100	MPN/100 mls	100	06/28/18 10:00	KDB/KDB	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	06/28/18 19:04	O	SM4500Cl-G-00
C.O.D.	31	10	mg/L	1	06/29/18	KMH	SM5220D-11
Conductivity	25	5.00	umhos/cm	1	06/29/18	RWR/KDB	SM2510B-11
MBAS	0.11	0.10	mg/L	2	06/30/18 05:24	TH	SM5540 C-11
Ammonia as Nitrogen	0.46	0.05	mg/L	1	07/03/18	WHM	E350.1
Nitrite-N	< 0.010	0.010	mg/L	1	06/28/18 18:07	MC	E353.2
Nitrate-N	0.23	0.02	mg/L	1	06/28/18 18:07	MC	E353.2
Oil and Grease by EPA 1664A	< 1.4	1.4	mg/L	1	06/29/18	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	06/28/18	RWR	SM2520B-10
Nitrogen Tot Kjeldahl	1.45	0.10	mg/L	1	07/03/18	WHM	E351.1
Phosphorus, as P	0.254	0.010	mg/L	1	07/02/18	MI	SM4500PE-11
Total Suspended Solids	39	5.0	mg/L	1	06/28/18	DA/KH	SM2540D-11
Total Metals Digestion	Completed				06/28/18	AG	

Project ID: 204118 NEW HAVEN SW
Client ID: 8494

Phoenix I.D.: CA80085

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
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QA/QC Report

July 06, 2018

QA/QC Data

SDG I.D.: GCA80079

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 436684 (mg/L), QC Sample No: CA80082 (CA80082, CA80083, CA80084, CA80085)													
ICP Metals - Aqueous													
Boron	BRL	0.05	<0.05	<0.05	NC	111			97.9			75 - 125	20
QA/QC Batch 436853 (mg/L), QC Sample No: CA80986 (CA80079, CA80080, CA80081)													
ICP Metals - Aqueous													
Boron	BRL	0.05	<0.05	<0.05	NC	96.4			98.6			75 - 125	20

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QA/QC Report

July 06, 2018

QA/QC Data

SDG I.D.: GCA80079

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 437098 (mg/L), QC Sample No: CA79135 (CA80079, CA80080, CA80081, CA80082, CA80083, CA80084, CA80085)														
Phosphorus, as P	BRL	0.01	10.7	10.1	5.80	105			99.7			85 - 115	20	
Comment:														
Additional criteria matrix spike acceptance range is 75-125%.														
QA/QC Batch 436704 (mg/L), QC Sample No: CA79848 (CA80079, CA80080, CA80081)														
Nitrate-N	BRL	0.02	<0.02	<0.02	NC	104			102			90 - 110	20	
Nitrite-N	BRL	0.01	<0.010	<0.01	NC	106			101			90 - 110	20	
QA/QC Batch 436776 (mg/L), QC Sample No: CA79895 (CA80079, CA80080, CA80081, CA80082, CA80083, CA80084, CA80085)														
Oil and Grease by EPA 1664A	BRL	1.4				98.0	101	3.0				85 - 115	20	
Comment:														
Additional: MS acceptance range 75-125%.														
QA/QC Batch 436607 (mg/L), QC Sample No: CA80072 (CA80079, CA80080, CA80081, CA80082, CA80083, CA80084, CA80085)														
Total Suspended Solids	BRL	5.0	<5.0	<5.0	NC	91.0						85 - 115	20	
QA/QC Batch 436788 (mg/L), QC Sample No: CA80079 (CA80079, CA80080, CA80081, CA80082, CA80083, CA80084, CA80085)														
C.O.D.	BRL	10	204	198	3.00	98.6			99.0			85 - 115	20	
Comment:														
Additional criteria matrix spike acceptance range is 75-125%.														
QA/QC Batch 437045 (mg/L), QC Sample No: CA80083 (CA80079, CA80080, CA80081, CA80082, CA80083, CA80084, CA80085)														
Ammonia as Nitrogen	BRL	0.05	0.20	0.22	NC	101			86.8			90 - 110	20	m
Nitrogen Tot Kjeldahl	BRL	0.10	0.91	0.99	8.40	99.3			99.6			85 - 115	20	
Comment:														
TKN is reported as Organic Nitrogen in the Blank, LCS, DUP and MS.														
QA/QC Batch 436693 (mg/L), QC Sample No: CA80249 (CA80079, CA80080, CA80081, CA80082, CA80083, CA80084, CA80085)														
Chlorine Residual	BRL	0.02	<0.02	<0.02	NC	102								
QA/QC Batch 436771 (umhos/cm), QC Sample No: CA80255 (CA80079, CA80080, CA80081, CA80082, CA80083, CA80084, CA80085)														
Conductivity	BRL	5.00	50	50.6	1.20	96.3						85 - 115	20	
Comment:														
Additional criteria matrix spike acceptance range is 75-125%.														
QA/QC Batch 436741 (mg/L), QC Sample No: CA80331 (CA80079, CA80080, CA80081)														
MBAS	BRL	0.05	0.08	0.06	NC	89.5			104			85 - 115	20	
Comment:														
Additional criteria matrix spike acceptance range is 75-125%.														
QA/QC Batch 436705 (mg/L), QC Sample No: CA80430 (CA80082, CA80083, CA80084, CA80085)														
Nitrate-N	BRL	0.02	0.41	0.41	0	105			108			90 - 110	20	
Nitrite as Nitrogen	BRL	0.01	0.04	<0.01	NC	106			106			90 - 110	20	
QA/QC Batch 436913 (mg/L), QC Sample No: CA81471 (CA80082, CA80083, CA80084, CA80085)														
MBAS	BRL	0.05	0.22	0.19	NC	87.8			91.7			85 - 115	20	
Comment:														
Additional criteria matrix spike acceptance range is 75-125%.														

QA/QC Data

SDG I.D.: GCA80079

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

m = This parameter is outside laboratory MS/MSD specified recovery limits.

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

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

Phyllis Shiller, Laboratory Director
July 06, 2018

Friday, July 06, 2018
Criteria: None
State: CT

Sample Criteria Exceedances Report

GCA80079 - ATC-BRAN

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

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance 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.

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. ***Client:*** ATC Associates

Project Location: 204118 NEW HAVEN SW ***Project Number:***

Laboratory Sample ID(s): CA80079-CA80085 ***Sampling Date(s):*** 6/28/2018

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)**	☐ Yes ☐ No ☑ NA
2	**Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?**	☑ Yes ☐ No
3	**Were samples received at an appropriate temperature (< 6 Degrees C)?**	☑ Yes ☐ No ☐ NA
4	**Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Section: NITROGEN.**	☐ Yes ☑ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?** **b) Were these reporting limits met?**	☐ Yes ☑ No ☑ Yes ☐ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☐ Yes ☑ No
7	**Are project-specific matrix spikes and laboratory duplicates included in the data set?**	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Rashmi Makol **Position:** Project Manager

Printed Name: Rashmi Makol **Date:** Friday, July 06, 2018

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

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Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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ACCREDITED IN ACCORDANCE WITH nelac
NY # 11301

RCP Certification Report

July 06, 2018

SDG I.D.: GCA80079

SDG Comments

Metals Analysis:
The client requested a shorter list of elements than the 6010 RCP list. Only Boron is reported as requested on the chain of custody.

Wet Chemistry Analysis

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

BECKMAN DU720 #2 07/02/18-5 Michael Tran, Chemist 07/02/18

CA80079, CA80080, CA80081, CA80082, CA80083, CA80084, CA80085

BECKMAN DU720 06/29/18-1 Katherine Brown, Chemist 06/29/18

CA80079, CA80080, CA80081

The initial calibration met all criteria including a standard run at the reporting level.
All method verification standards and blanks met criteria.

BECKMAN DU720 06/30/18-1 Tina Hall, Chemist 06/30/18

CA80082, CA80083, CA80084, CA80085

The initial calibration met all criteria including a standard run at the reporting level.
All method verification standards and blanks met criteria.

HACH DR 5000 06/29/18-2 Kristina Hagelin, Chemist 06/29/18

CA80079, CA80080, CA80081, CA80082, CA80083, CA80084, CA80085

The initial calibration met all criteria including a standard run at the reporting level.
All method verification standards and blanks met criteria.

QC (Batch Specific):

Batch 436607 (CA80072)

CA80079, CA80080, CA80081, CA80082, CA80083, CA80084, CA80085

All LCS recoveries were within 85 - 115 with the following exceptions: None.
Additional criteria matrix spike acceptance range is 75-125%.

Batch 436741 (CA80331)

CA80079, CA80080, CA80081

All LCS recoveries were within 85 - 115 with the following exceptions: None.
Additional criteria matrix spike acceptance range is 75-125%.

Batch 436771 (CA80255)

CA80079, CA80080, CA80081, CA80082, CA80083, CA80084, CA80085

All LCS recoveries were within 85 - 115 with the following exceptions: None.
Additional criteria matrix spike acceptance range is 75-125%.

Batch 436776 (CA79895)

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NY # 11301

RCP Certification Report

July 06, 2018

SDG I.D.: GCA80079

Wet Chemistry Analysis

CA80079, CA80080, CA80081, CA80082, CA80083, CA80084, CA80085

All LCS recoveries were within 85 - 115 with the following exceptions: None.
All LCSD recoveries were within 85 - 115 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional: MS acceptance range 75-125%.
Additional criteria matrix spike acceptance range is 75-125%.

Batch 436913 (CA81471)

CA80082, CA80083, CA80084, CA80085

All LCS recoveries were within 85 - 115 with the following exceptions: None.
Additional criteria matrix spike acceptance range is 75-125%.

Batch 437098 (CA79135)

CA80079, CA80080, CA80081, CA80082, CA80083, CA80084, CA80085

All LCS recoveries were within 85 - 115 with the following exceptions: None.
Additional criteria matrix spike acceptance range is 75-125%.

QC (Site Specific):

Batch 436788 (CA80079)

CA80079, CA80080, CA80081, CA80082, CA80083, CA80084, CA80085

All LCS recoveries were within 85 - 115 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.
Additional criteria matrix spike acceptance range is 75-125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

BLUE 06/29/18 10:54 Mike Arsenault, Chemist 06/29/18

CA80082, CA80083, CA80084, CA80085

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

BLUE 07/02/18 06:24 Emily Kolominskaya, Chemist 07/02/18

CA80079, CA80080, CA80081

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.The linear range is defined daily

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NY # 11301

Certification Report

July 06, 2018

SDG I.D.: GCA80079

ICP Metals Narration

by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 436853 (CA80986)

CA80079, CA80080, CA80081

All LCS recoveries were within 75 - 125 with the following exceptions: None.

QC (Site Specific):

Batch 436684 (CA80082)

CA80082, CA80083, CA80084, CA80085

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.

LACHAT

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

LACHAT 06/28/18-1 Mike Cottle, Chemist 06/28/18

CA80079, CA80080, CA80081, CA80082, CA80083, CA80084, CA80085

The initial calibration met all criteria including a standard run at the reporting level.
All method verification standards and blanks met criteria.

QC (Batch Specific):

Batch 436704 (CA79848)

CA80079, CA80080, CA80081

All LCS recoveries were within 90 - 110 with the following exceptions: None.

Batch 436705 (CA80430)

CA80082, CA80083, CA80084, CA80085

All LCS recoveries were within 90 - 110 with the following exceptions: None.

NITROGEN

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 437045 (Samples: CA80079, CA80080, CA80081, CA80082, CA80083, CA80084, CA80085): -----

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the method criteria, therefore a low bias is likely. (Ammonia as Nitrogen)

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ACCREDITED IN ACCORDANCE WITH nelac
NY # 11301

RCP Certification Report

July 06, 2018

SDG I.D.: GCA80079

NITROGEN

Instrument:

LACHAT 07/03/18-1 William H. McKernan, Chemist 07/03/18

CA80079, CA80080, CA80081, CA80082, CA80083, CA80084, CA80085

The initial calibration met all criteria including a standard run at the reporting level.
All method verification standards and blanks met criteria.

QC (Site Specific):

Batch 437045 (CA80083)

CA80079, CA80080, CA80081, CA80082, CA80083, CA80084, CA80085

All LCS recoveries were within 85 - 115 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: Ammonia as Nitrogen(86.8%)
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
TKN is reported as Organic Nitrogen in the Blank, LCS, DUP and MS.

Temperature Narration

The samples were received at 6.0C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [ ] ICE [X] No [ ]

CHAIN OF CUSTODY RECORD

Temp 0.0 °C Pg of

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (800) 645-8726

Data Delivery:
[ ] Fax #:
[X] Email: luke.whitehouse@atcgs.com

Customer: ATC Group Svcs.
Address: 33 Business Park Dr.
Branford CT 06405

Project: 204118 New Haven SW
Report to: Luke Whitehouse
Invoice to: ATC
Phone #: (203) 498-9481
Fax #:

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 6/28/18

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Oil + Grease	Hardness, Boron	Cln, cond, salinity, Surfactants	TSS, NO2, NO3	NH3, COD, TP, TKN	Total + E Coli	Fecal, Enterococci	Soil VOA Vials [ ] methanol	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [X] H2SO4	PL As is [ ] 250ml [ ] 500ml	PL H2SO4 [ ] 250ml [X] 1000ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria (as is)	Bacteria (w/thio) (Sterile)
80079	0119	SW	6-28-18	5:45 AM	X	X	X	X	X	X	X					1	1	1	1		1
80080	~~9268~~ 9268	↓	↓	5:49 AM	X	X	X	X	X	X	X					1	1	1	1		1
80081	8843			5:58 AM	X	X	X	X	X	X	X					1	1	1	1		1
80082	8818			6:06 AM	X	X	X	X	X	X	X					1	1	1	1		1
80083	8810			6:14 AM	X	X	X	X	X	X	X					1	1	1	1		1
80084	8803			6:21 AM	X	X	X	X	X	X	X					1	1	1	1		1
80085	8494	↓	↓	6:27 AM	X	X	X	X	X	X	X					1	1	1	1		1

Relinquished by:	Accepted by:	Date:	Time:
[signature]	Trauum	6/27/18	9:00

Comments, Special Requirements or Regulations:

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] Direct Exposure (Residential)
[ ] GW
[ ] Other

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

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

State where samples were collected: CT

Data Format
[X] Excel
[X] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[X] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES