Monday, July 17, 2017

Attn: Mr. Chris Doyle
Solitude Lake Management
580 Rockport Rd
Hackettstown, NJ 07840

Project ID: CROTON RIVER
Sample ID#:s: BY57309 - BY57316

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 #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

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823
Analysis Report
July 17, 2017

FOR: Attn: Mr. Chris Doyle
Solitude Lake Management
580 Rockport Rd
Hackettstown, NJ 07840

Sample Information
Matrix: DRINKING WATER
Location Code: SOLITUDE
Rush Request: 72 Hour
P.O.#:

Custody Information
Collected by: CD
Received by: LB
Analyzed by: see "By" below

Date
07/12/17
07/12/17
07/12/17

Time
11:00
15:33

Laboratory Data
SDG ID: GBY57309
Phoenix ID: BY57309

Parameter Result

Parameter
Extraction for 525.3
Semivolatile Organic
Fluridone
OA/QC Surrogates
% 1,3-Dimethyl-2-nitrobenzene
% benzo(a)pyrene-d12
% Triphenylphosphate

Result
Completed
ND
0.29
88
74
85

RL/PQL
DIL
Units
AL
MCL
MCLG
Date/Time
By
Reference

07/14/17
E/E
E525.3

07/14/17
MH
E525.3

07/14/17
MH
70 - 130 %

07/14/17
MH
70 - 130 %

07/14/17
MH
70 - 130 %
<table>
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<th>Parameter</th>
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<th>DIL</th>
<th>Units</th>
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<th>MCL</th>
<th>MCLG Date/Time</th>
<th>By</th>
<th>Reference</th>
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RL/PQL = Reporting/Practical Quantitation Level  
DIL = Dilution (analysis required diluting to evaluate)  
ND = Not Detected  
BRL = Below Reporting Level (less than the reporting level, the lowest amount the laboratory can detect and report.)  
AL = Action Level  
MCL = Maximum Contaminant Level  
MCLG = Maximum Contaminant Level Goal  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

Maximum Contaminant Level (MCL) (Lower of): 40 CFR Part 141; Public Health Law, Section 225 Part 5. The highest level of a contaminant that is allowed in drinking water. MCLs are enforceable standards.


Secondary DW Maximum Contaminant Level Goal (MCLG): (Lower of): 40 CFR Part 141; 40 CFR Part 143. The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are non-enforceable public health goals.

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Phyllis Shiller, Laboratory Director  
July 17, 2017

Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report
July 17, 2017

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Solitude Lake Management
580 Rockport Rd
Hackettstown, NJ 07840

Sample Information
Matrix: DRINKING WATER
Location Code: SOLITUDE
Rush Request: 72 Hour
P.O.#: 

Custody Information
Collected by: CD
Received by: LB
Analyzed by: see "By" below

Laboratory Data
SDG ID: GBY57309
Phoenix ID: BY57310

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<td>70 - 130 %</td>
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<td>70 - 130 %</td>
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<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>93</td>
<td>1</td>
<td>%</td>
<td>NA</td>
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<tr>
<td>% benzo(a)pyrene-d12</td>
<td>81</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
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<td>07/14/17</td>
<td>MH</td>
<td>70 - 130 %</td>
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</tr>
<tr>
<td>% Triphenylphosphate</td>
<td>89</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
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Client ID: DW1-B

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<th>MCL</th>
<th>MCLG</th>
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**Comments:**

Maximum Contaminant Level (MCL) (Lower of): 40 CFR Part 141; Public Health Law, Section 225 Part 5. The highest level of a contaminant that is allowed in drinking water. MCLs are enforceable standards.


Secondary DW Maximum Contaminant Level Goal (MCLG): (Lower of): 40 CFR Part 141; 40 CFR Part 143. The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are non-enforceable public health goals.

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Phyllis Shiller, Laboratory Director
July 17, 2017

Reviewed and Released by: Bobbi Aloisa, Vice President
### Analysis Report
July 17, 2017

FOR: Attn: Mr. Chris Doyle
Solitude Lake Management
580 Rockport Rd
Hackettstown, NJ 07840

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<th>Custody Information</th>
<th>Date</th>
<th>Time</th>
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<td>11:10</td>
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<td>Rush Request: 72 Hour</td>
<td>Analyzed by: see &quot;By&quot; below</td>
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#### Laboratory Data

**Laboratory Data**

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#### Semivolatile Organic

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#### QA/QC Surrogates

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<tr>
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<td>92</td>
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<td>%</td>
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<td>NA</td>
<td>NA</td>
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<tr>
<td>% benzo(a)pyrene-d12</td>
<td>84</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>07/14/17</td>
<td>MH</td>
<td>70 - 130 %</td>
<td></td>
</tr>
<tr>
<td>% Triphenylphosphate</td>
<td>93</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>07/14/17</td>
<td>MH</td>
<td>70 - 130 %</td>
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</table>
### Parameter Result RL/PQL DIL Units AL MCL MCLG Date/Time By Reference

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- **DIL** = Dilution (analysis required diluting to evaluate)
- **ND** = Not Detected
- **BRL** = Below Reporting Level (less than the reporting level, the lowest amount the laboratory can detect and report.)
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- **QA/QC** Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### Comments:

- **Maximum Contaminant Level (MCL) (Lower of):** 40 CFR Part 141; Public Health Law, Section 225 Part 5. The highest level of a contaminant that is allowed in drinking water. MCLs are enforceable standards.
- **Action Level (AL): (Lower of):** 40 CFR Part 141.80; Public Health Law, Section 225 Part 5.
- **Secondary DW Maximum Contaminant Level Goal (MCLG): (Lower of):** 40 CFR Part 141; 40 CFR Part 143. The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are non-enforceable public health goals.

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**Phyllis Shiller, Laboratory Director**  
**July 17, 2017**

Reviewed and Released by: Bobbi Aloisa, Vice President
### Sample Information
- **Matrix:** DRINKING WATER
- **Location Code:** SOLITUDE
- **Rush Request:** 72 Hour
- **P.O. #:**

### Custody Information
- **Collected by:** CD
- **Received by:** LB
- **Analyzed by:** see "By" below

### Laboratory Data
- **SDG ID:** GBY57309
- **Phoenix ID:** BY57312

#### Parameter Result

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<tr>
<td>Fluridone</td>
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<td>ug/L</td>
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<td>07/14/17</td>
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<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>87</td>
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<td>% benzo(a)pyrene-d12</td>
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<td>%</td>
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<td>07/14/17</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
<tr>
<td>% Triphenylphosphate</td>
<td>91</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
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**Comments:**

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_Signed_ Phyllis Shiller, Laboratory Director

July 17, 2017

Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report  
July 17, 2017

FOR: Attn: Mr. Chris Doyle  
Solitude Lake Management  
580 Rockport Rd  
Hackettstown, NJ 07840

### Sample Information
- **Matrix:** DRINKING WATER  
- **Location Code:** SOLITUDE  
- **Rush Request:** 72 Hour  
- **P.O. #:**

### Custody Information
- **Collected by:** CD  
- **Received by:** LB  
- **Analyzed by:** see “By” below  
- **Date:** 07/12/17  
- **Time:** 11:20  
- **Date:** 07/12/17  
- **Time:** 15:33

### Laboratory Data
- **SDG ID:** GBY57309  
- **Phoenix ID:** BY57313

### Parameter Results

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<td>Fluridone</td>
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<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>93</td>
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<td>%</td>
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<td>MH</td>
<td>70 - 130 %</td>
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<tr>
<td>% Triphenylphosphate</td>
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<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td>07/14/17</td>
<td>MH</td>
<td>70 - 130 %</td>
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Analysis Report
July 17, 2017

FOR: Attn: Mr. Chris Doyle
Solitude Lake Management
580 Rockport Rd
Hackettstown, NJ 07840

Sample Information
- Matrix: DRINKING WATER
- Location Code: SOLITUDE
- Rush Request: 72 Hour

Custody Information
- Collected by: CD 07/12/17 11:20
- Received by: LB 07/12/17 15:33
- Analyzed by: see "By" below

Laboratory Data
- SDG ID: GBY57309
- Phoenix ID: BY57314

Parameter Result
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<td>E525.3</td>
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<td>MH</td>
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<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>73</td>
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<td>%</td>
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<tr>
<td>% benzo(a)pyrene-d12</td>
<td>74</td>
<td>1</td>
<td>%</td>
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<td>70 - 130 %</td>
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<tr>
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<td>85</td>
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<td>07/14/17</td>
<td>MH</td>
<td>70 - 130 %</td>
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</table>
Project ID: CROTON RIVER
Client ID: DW4-B

Phyllis Shiller, Laboratory Director
July 17, 2017

Reviewed and Released by: Bobbi Aloisa, Vice President

Ver 1
Analysis Report
July 17, 2017

FOR: Attn: Mr. Chris Doyle
Solitude Lake Management
580 Rockport Rd
Hackettstown, NJ 07840

Sample Information
Matrix: DRINKING WATER
Location Code: SOLITUDE
Rush Request: 72 Hour
P.O.#:

Custody Information
Collected by: CD
Received by: LB
Analyzed by: see "By" below

Laboratory Data
SDG ID: GBY57309
Phoenix ID: BY57315

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Result</th>
<th>RL/</th>
<th>DIL</th>
<th>Units</th>
<th>AL</th>
<th>MCL</th>
<th>MCLG</th>
<th>Date/Time</th>
<th>By</th>
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<td></td>
<td>MH</td>
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<tr>
<td>QA/QC Surrogates</td>
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<td>% 1,3-Dimethyl-2-nitrobenzene</td>
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<tr>
<td>% benzo(a)pyrene-d12</td>
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<td>NA</td>
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<td>07/14/17</td>
<td>MH</td>
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<tr>
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<td>MH</td>
<td>70 - 130 %</td>
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**Parameters and Units**

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<th>Units</th>
<th>AL</th>
<th>MCL</th>
<th>MCLG Date/Time</th>
<th>Reference</th>
</tr>
</thead>
</table>

- **RL/PQL**: Reporting/Practical Quantitation Level
- **DIL**: Dilution (analysis required diluting to evaluate)
- **ND**: Not Detected
- **BRL**: Below Reporting Level (less than the reporting level, the lowest amount the laboratory can detect and report.)
- **AL**: Action Level
- **MCL**: Maximum Contaminant Level
- **MCLG**: Maximum Contaminant Level Goal

**Comments**

**Maximum Contaminant Level (MCL)** (Lower of): 40 CFR Part 141; Public Health Law, Section 225 Part 5. The highest level of a contaminant that is allowed in drinking water. MCLs are enforceable standards.

**Action Level (AL)**: (Lower of): 40 CFR Part 141.80; Public Health Law, Section 225 Part 5.

**Secondary DW Maximum Contaminant Level Goal (MCLG)**: (Lower of): 40 CFR Part 141; 40 CFR Part 143. The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are non-enforceable public health goals.

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 17, 2017**

**Reviewed and Released by: Bobbi Aloisa, Vice President**
Analysis Report  
July 17, 2017

FOR:  
Attn: Mr. Chris Doyle  
Solitude Lake Management  
580 Rockport Rd  
Hackettstown, NJ 07840

Sample Information
- Matrix: DRINKING WATER  
- Location Code: SOLITUDE  
- Rush Request: 72 Hour  
- P.O.:

Custody Information
- Collected by: CD  
- Received by: LB  
- Analyzed by: see "By" below  
- Date: 07/12/17  
- Time: 10:55  
- Date: 07/12/17  
- Time: 15:33

Laboratory Data
- SDG ID: GBY57309  
- Phoenix ID: BY57316

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<th>By</th>
<th>Reference</th>
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<td>Fluridone</td>
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<td>0.29</td>
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<tr>
<td>1,3-Dimethyl-2-nitrobenzene</td>
<td>92</td>
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<tr>
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<td>%</td>
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<td>NA</td>
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<tr>
<td>Triphenylphosphate</td>
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<td>NA</td>
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**Client ID:** FW1-B  
**Project ID:** CROTON RIVER  
**Phoenix I.D.:** BY57316

### Parameter Result

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<tr>
<th>Parameter</th>
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<th>RL/PQL</th>
<th>DIL</th>
<th>Units</th>
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<th>MCLG</th>
<th>Date/Time</th>
<th>By</th>
<th>Reference</th>
</tr>
</thead>
</table>

**RL/PQL** = Reporting/Practical Quantitation Level  
**DIL** = Dilution (analysis required diluting to evaluate)  
**ND** = Not Detected  
**BRL** = Below Reporting Level (less than the reporting level, the lowest amount the laboratory can detect and report.)  
**AL** = Action Level  
**MCL** = Maximum Contaminant Level  
**MCLG** = Maximum Contaminant Level Goal  
**QA/QC Surrogates:** Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

Maximum Contaminant Level (MCL) (Lower of): 40 CFR Part 141; Public Health Law, Section 225 Part 5. The highest level of a contaminant that is allowed in drinking water. MCLs are enforceable standards.


Secondary DW Maximum Contaminant Level Goal (MCLG): (Lower of): 40 CFR Part 141; 40 CFR Part 143. The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are non-enforceable public health goals.

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 17, 2017*

*Reviewed and Released by: Bobbi Aloisa, Vice President*
# QA/QC Report

**July 17, 2017**

## QA/QC Data

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<th>LCSD</th>
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<th>MS</th>
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<th>MS</th>
<th>% Rec</th>
<th>RPD</th>
<th>Limits</th>
<th>Limits</th>
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</table>

### QA/QC Batch 393751 (ug/L), QC Sample No: BY56327 (BY57309, BY57310, BY57311, BY57312, BY57313, BY57314, BY57315, BY57316)

#### Semivolatile Organic Compounds - Drinking Water

- **Fluridone**: ND 0.30 70 77 82 6.3 70 - 130 20
- **% 1,3-Dimethyl-2-nitrobenzene**: 91 % 96 76 77 1.3 70 - 130 20
- **% benzo(a)pyrene-d12**: 85 % 92 76 84 10.0 70 - 130 20
- **% Triphenylphosphate**: 87 % 113 97 123 23.6 70 - 130 20

*Comment:* Tap water, collected and dechlorinated in sample containers, was used as the MS and MSD.

### QA/QC Batch 393439 (ug/L), QC Sample No: BY57309 (BY57309, BY57309, BY57310, BY57311, BY57312, BY57313, BY57314, BY57315, BY57316)

#### Semivolatile Organic Compounds - Drinking Water

- **Fluridone**: 91 103 12.489 0.30
- **% 1,3-Dimethyl-2-nitrobenzene**: 86 % 9.995
- **% benzo(a)pyrene-d12**: 79 % 9.995
- **% Triphenylphosphate**: 104 %

*Comment:* Tap water, collected and dechlorinated in sample containers, was used as the MS and MSD.

*Comment:* r = This parameter is outside laboratory RPD specified recovery limits.

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

**RPD - Relative Percent Difference**

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<th>LCSD - Laboratory Control Sample Duplicate</th>
<th>MS - Matrix Spike</th>
<th>MS Dup - Matrix Spike Duplicate</th>
<th>NC - No Criteria</th>
<th>Intf - Interference</th>
</tr>
</thead>
</table>

*Phyllis Shiller, Laboratory Director*

*July 17, 2017*
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.

### Sample Criteria Exceedances Report

**GBY57309 - SOLITUDE**

<table>
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<tr>
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<th>Acode</th>
<th>Criteria</th>
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*** No Data to Display ***
Analysis Comments

July 17, 2017

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.
The samples in this delivery group were received at 1.9°C.
(Note acceptance criteria is above freezing up to 6°C)
# NY/NJ CHAIN OF CUSTODY RECORD

## PHOENIX Environmental Laboratories, Inc.

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

### Customer Information
- **Customer:** [Name]  
- **Address:** [Address]

### Project Information
- **Project:** Cotton River  
- **Report to:** Chris DuPree  
- **Invoice to:** [Name]

### Sample Information
- **Sampler's Signature:** [Signature]  
- **Date:** 7/12/17

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### Analysis Request
- **Request:** [Signature]

### Rejected/Exception
- **Date:** 7/12/17  
- **Time:** 12:37

### Comments, Special Requirements or Regulations:

### Data Format
- **File:** [Options]
- **Package:** [Options]

### State where samples were collected:

[Signature]