Friday, September 21, 2018

Attn: Mr. Chris Doyle
Solitude Lake Management
310 East Washington Ave
Washington NJ 07882

Project ID: CROTON RIVER
Sample ID#s: CB31692 - CB31695

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

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

## Laboratory Data
- **Date:** 09/14/18
- **Time:** 12:15
- **SDG ID:** GCB31692
- **Phoenix ID:** CB31692

### Semivolatile Organic

#### Fluridone
- **Result:** 0.55
- **PQL:** 0.29
- **Units:** ug/L
- **AL:** NA
- **MCL:** NA
- **MCLG:** NA
- **By:** MH
- **Reference:** E525.3
- **Date/Time:** 09/18/18

#### QA/QC Surrogates
- **% 1,3-Dimethyl-2-nitrobenzene:** 88
- **% benzo(a)pyrene-d12:** 88
- **% Triphenylphosphate:** 94
- **By:** MH
- **Date:** 09/18/18
- **Reference:** 70 - 130 %
## 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.

---

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

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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.

Phyllis Shiller, Laboratory Director
September 21, 2018
Reviewed and Released by: Bobbi Aloisa, Vice President
## Analysis Report
September 21, 2018

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

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

### Laboratory Data
- **SDG ID:** GCB31692
- **Phoenix ID:** CB31693

#### Parameter Results

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Result</th>
<th>RL/PQL</th>
<th>DIL</th>
<th>Units</th>
<th>AL</th>
<th>MCL</th>
<th>MCLG</th>
<th>Date/Time</th>
<th>By</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extraction for 525.3</td>
<td>Completed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>E525.3</td>
</tr>
<tr>
<td><strong>Semivolatile Organic</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fluridone</td>
<td>0.74</td>
<td>0.29</td>
<td>1</td>
<td>ug/L</td>
<td></td>
<td></td>
<td></td>
<td>09/20/18</td>
<td>MH</td>
<td>E525.3</td>
</tr>
<tr>
<td><strong>QA/QC Surrogates</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>81</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td></td>
<td>09/20/18</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
<tr>
<td>% benzo(a)pyrene-d12</td>
<td>91</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td></td>
<td>09/20/18</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
<tr>
<td>% Triphenylphosphate</td>
<td>98</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td></td>
<td>09/20/18</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
</tbody>
</table>

**Ver 1**
### 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.

- **525 Analysis:**
  - pH was outside the acceptable buffered range. (EPA requires pH preservation at time of sampling.) A sample bias can not be ruled out.

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**  
September 21, 2018  
Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report
September 21, 2018

FOR: Attn: Mr. Chris Doyle
Solitude Lake Management
310 East Washington Ave
Washington NJ 07882

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

Custody Information
Collected by:
Received by: CP
Analyzed by: see “By” below

Laboratory Data
SDG ID: GCB31692
Phoenix ID: CB31694

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Result</th>
<th>RL/</th>
<th>PQL</th>
<th>DIL</th>
<th>Units</th>
<th>AL</th>
<th>MCL</th>
<th>MCLG</th>
<th>Date/Time</th>
<th>By</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extraction for 525.3</td>
<td>Completed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>09/17/18</td>
<td></td>
<td>W/W E525.3</td>
</tr>
<tr>
<td>Semivolatile Organic</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>09/18/18</td>
<td>MH</td>
<td>E525.3</td>
</tr>
<tr>
<td>Fluridone</td>
<td>1.1</td>
<td>0.29</td>
<td>1</td>
<td>ug/L</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>09/18/18</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
<tr>
<td>QA/QC Surrogates</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>92</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td></td>
<td>09/18/18</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
<tr>
<td>% benzo(a)pyrene-d12</td>
<td>88</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td></td>
<td>09/18/18</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
<tr>
<td>% Triphenylphosphate</td>
<td>98</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td></td>
<td>09/18/18</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
<tr>
<td>Parameter</td>
<td>Result</td>
<td>PQL</td>
<td>DIL</td>
<td>Units</td>
<td>AL</td>
<td>MCL</td>
<td>MCLG Date/Time</td>
<td>By</td>
<td>Reference</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>--------</td>
<td>-----</td>
<td>-----</td>
<td>-------</td>
<td>----</td>
<td>-----</td>
<td>----------------</td>
<td>----</td>
<td>-----------</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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 (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.


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

September 21, 2018

Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report  
September 21, 2018

FOR:  Attn: Mr. Chris Doyle
Solitude Lake Management
310 East Washington Ave
Washington NJ 07882

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

Custody Information
Collected by:
Received by:  CP
Analyzed by:  see "By" below

Date  Time
09/14/18  12:00
09/14/18  14:46

Laboratory Data
SDG ID:  GCB31692
Phoenix ID:  CB31695

Project ID:  CROTON RIVER
Client ID:  DW4-A

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Result</th>
<th>Date/Time</th>
<th>By</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extraction for 525.3</td>
<td>Completed</td>
<td>09/17/18</td>
<td>W/W</td>
<td>E525.3</td>
</tr>
</tbody>
</table>

**Semivolatile Organic**

Fluridone
0.36  0.29  1  ug/L
09/18/18  MH  E525.3

<table>
<thead>
<tr>
<th>QA/QC Surrogates</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>93</td>
<td>1  %</td>
<td>NA</td>
<td>09/18/18</td>
</tr>
<tr>
<td>% benzo(a)pyrene-d12</td>
<td>91</td>
<td>1  %</td>
<td>NA</td>
<td>09/18/18</td>
</tr>
<tr>
<td>% Triphenylphosphate</td>
<td>98</td>
<td>1  %</td>
<td>NA</td>
<td>09/18/18</td>
</tr>
<tr>
<td>Parameter</td>
<td>Result</td>
<td>PQL</td>
<td>DIL</td>
<td>Units</td>
</tr>
<tr>
<td>-----------</td>
<td>--------</td>
<td>-----</td>
<td>-----</td>
<td>-------</td>
</tr>
</tbody>
</table>

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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 (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.


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

September 21, 2018

Reviewed and Released by: Bobbi Aloisa, Vice President
QA/QC Report  
September 21, 2018

QA/QC Data  
SDG I.D.: GCB31692

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Blk</th>
<th>RL</th>
<th>LCS %</th>
<th>LCSD %</th>
<th>LCS RPD</th>
<th>MS %</th>
<th>MSD %</th>
<th>MS RPD</th>
<th>% Rec Limits</th>
<th>% RPD Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Semivolatile Organic Compounds - Drinking Water</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fluridone</td>
<td>ND</td>
<td>0.30</td>
<td>91</td>
<td>98</td>
<td>95</td>
<td>3.1</td>
<td>70 - 130</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>81</td>
<td>%</td>
<td>72</td>
<td>78</td>
<td>75</td>
<td>3.9</td>
<td>70 - 130</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>% benzo(a)pyrene-d12</td>
<td>92</td>
<td>%</td>
<td>81</td>
<td>89</td>
<td>84</td>
<td>5.8</td>
<td>70 - 130</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>% Triphenylphosphate</td>
<td>95</td>
<td>%</td>
<td>92</td>
<td>93</td>
<td>89</td>
<td>4.4</td>
<td>70 - 130</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Semivolatile Organic Compounds - Drinking Water</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fluridone</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>83</td>
<td>%</td>
<td>72</td>
<td>75</td>
<td>74</td>
<td>1.3</td>
<td>70 - 130</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>% benzo(a)pyrene-d12</td>
<td>90</td>
<td>%</td>
<td>81</td>
<td>86</td>
<td>89</td>
<td>3.4</td>
<td>70 - 130</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>% Triphenylphosphate</td>
<td>100</td>
<td>%</td>
<td>87</td>
<td>96</td>
<td>93</td>
<td>3.2</td>
<td>70 - 130</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Comment:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tap water, collected and dechlorinated in sample containers, was used as the MS and MSD.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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  
September 21, 2018
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.
Analysis Comments
September 21, 2018

SDG I.D.: GCB31692

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.
NY Temperature Narration
September 21, 2018

SDG LD.: GCB31692

The samples in this delivery group were received at 2.7°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)