Thursday, August 30, 2018

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

Project ID: CROTON RIVER  
Sample ID#s: CB18369 - CB18372

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  
NJ Lab Registration #CT-003
CT Lab Registration #PH-0618  
NY Lab Registration #11301
MA Lab Registration #M-CT007  
PA Lab Registration #68-03530
ME Lab Registration #CT-007  
RI Lab Registration #63
NH Lab Registration #213693-A,B  
UT Lab Registration #CT00007
NH Lab Registration #213693-A,B  
VT Lab Registration #VT11301
## Analysis Report

**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:** 08/24/18  
- **Time:** 12:20

**Laboratory Data**

**SDG ID:** GCB18369  
**Phoenix ID:** CB18369

### Laboratory Data

**Parameter** | **Result** | **RL/PQL** | **DIL** | **Units** | **AL** | **MCL** | **MCLG** | **Date/Time** | **By** | **Reference**
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
Extraction for 525.3 | Completed | | | | | | | | | |

### Semivolatile Organic

**Fluridone**  
0.64  
0.29  
1  
ug/L  
08/28/18  
MH  
E525.3

**QA/QC Surrogates**
- **% 1,3-Dimethyl-2-nitrobenzene**  
103  
1  
%  
NA  
NA  
NA  
08/28/18  
MH  
70 - 130 %
- **% benzo(a)pyrene-d12**  
112  
1  
%  
NA  
NA  
NA  
08/28/18  
MH  
70 - 130 %
- **% Triphenylphosphate**  
116  
1  
%  
NA  
NA  
NA  
08/28/18  
MH  
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.

**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:**
Chlorine was present; Sample was de-chlorinated prior to extraction/analysis. (EPA requires dechlorination 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**

August 30, 2018

Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report
August 30, 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: GCB18369
Phoenix ID: CB18370

Project ID: CROTON RIVER
Client ID: DW-1A

Parameter | Result | RL/ PQL | DIL | Units | AL | MCL | MCLG | Date/Time | By | Reference
---|---|---|---|---|---|---|---|---|---|---
Extraction for 525.3 | Completed | | | | | | | | | 

Semivolatile Organic

Fluridone
0.94
0.29
1
ug/L
08/28/18
MH
E525.3

QA/QC Surrogates

% 1,3-Dimethyl-2-nitrobenzene
109
1
% NA NA NA 08/28/18 MH 70 - 130 %

% benzo(a)pyrene-d12
111
1
% NA NA NA 08/28/18 MH 70 - 130 %

% Triphenylphosphate
120
1
% NA NA NA 08/28/18 MH 70 - 130 %
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
August 30, 2018
Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report
August 30, 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
--- | ---
08/24/18 | 12:25
08/24/18 | 16:10

Laboratory Data
SDG ID: GCB18369
Phoenix ID: CB18371

Parameter | Result | RL/ PQL | DIL | Units | AL | MCL | MCLG | Date/Time | By | Reference
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
Extraction for 525.3 | Completed | | | | | | | | | |

Semivolatile Organic

Fluridone | 0.78 | 0.29 | 1 | ug/L | 08/28/18 | MH | E525.3 |

QA/QC Surrogates

% 1,3-Dimethyl-2-nitrobenzene | 91 | 1 | % | NA | NA | NA | 08/28/18 | MH | 70 - 130 %
% benzo(a)pyrene-d12 | 103 | 1 | % | NA | NA | NA | 08/28/18 | MH | 70 - 130 %
% Triphenylphosphate | 106 | 1 | % | NA | NA | NA | 08/28/18 | MH | 70 - 130 %
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
August 30, 2018
Reviewed and Released by: Bobbi Aloisa, Vice President
**Analysis Report**

August 30, 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

**Date** | **Time**
--- | ---
08/24/18 | 12:05
08/24/18 | 16:10

**Laboratory Data**

- **SDG ID:** GCB18369
- **Phoenix ID:** CB18372

**Project ID:** CROTON RIVER
**Client ID:** DW-4A

<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>08/27/18</td>
<td>W/W</td>
<td>E525.3</td>
</tr>
</tbody>
</table>

**Semivolatile Organic**

- **Fluridone:** 0.41 0.29 1 ug/L 08/28/18 MH E525.3

**QA/QC Surrogates**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Result</th>
<th>%</th>
<th>Unit</th>
<th>Date</th>
<th>By</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3-Dimethyl-2-nitrobenzene</td>
<td>104</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>08/28/18</td>
</tr>
<tr>
<td>benzo(a)pyrene-d12</td>
<td>120</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>08/28/18</td>
</tr>
<tr>
<td>Triphenylphosphate</td>
<td>122</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>08/28/18</td>
</tr>
<tr>
<td>Parameter</td>
<td>Result</td>
<td>RL/</td>
<td>PQL</td>
<td>DIL</td>
<td>Units</td>
<td>AL</td>
</tr>
<tr>
<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 (precedeed 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
August 30, 2018
Reviewed and Released by: Bobbi Aloisa, Vice President
# QA/QC Report

**August 30, 2018**

**QA/QC Data**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Blank 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>QA/QC Batch 444886 (ug/L), QC Sample No: CB18369 (CB18369, CB18370, CB18371, CB18372)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></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>
</tr>
<tr>
<td>Fluridone</td>
<td>ND</td>
<td>0.30</td>
<td></td>
<td></td>
<td>109</td>
<td></td>
<td>104</td>
<td>98</td>
<td>5.9</td>
</tr>
<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>90</td>
<td>%</td>
<td>94</td>
<td>99</td>
<td>94</td>
<td></td>
<td>94</td>
<td>5.2</td>
<td>70 - 130</td>
</tr>
<tr>
<td>% benzo(a)pyrene-d12</td>
<td>99</td>
<td>%</td>
<td>121</td>
<td>114</td>
<td>109</td>
<td></td>
<td>109</td>
<td>4.5</td>
<td>70 - 130</td>
</tr>
<tr>
<td>% Triphenylphosphate</td>
<td>119</td>
<td>%</td>
<td>128</td>
<td>129</td>
<td>118</td>
<td></td>
<td>118</td>
<td>8.9</td>
<td>70 - 130</td>
</tr>
<tr>
<td>Comment: 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>
</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**

**Inf - Interference**

---

Phyllis Shiller, Laboratory Director

August 30, 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.
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 2.2°C.  
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)
<table>
<thead>
<tr>
<th>Sample Method</th>
<th>Sample Matrix</th>
<th>Sample Site</th>
<th>Sample ID</th>
<th>Sample Date</th>
<th>Sample Time</th>
<th>Sample Description</th>
<th>Sample Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Groundwater</td>
<td>Soil</td>
<td>312 East Washington Ave</td>
<td>310-2-A</td>
<td>12/01/2018</td>
<td>12:30PM</td>
<td>C-3</td>
<td></td>
</tr>
<tr>
<td>Surface Water</td>
<td>Soil</td>
<td>312 East Washington Ave</td>
<td>310-3-A</td>
<td>12/01/2018</td>
<td>12:30PM</td>
<td>C-3</td>
<td></td>
</tr>
<tr>
<td>Soil</td>
<td>Soil</td>
<td>312 East Washington Ave</td>
<td>310-4-A</td>
<td>12/01/2018</td>
<td>12:30PM</td>
<td>C-3</td>
<td></td>
</tr>
</tbody>
</table>

*Note: All samples were collected on 12/01/2018. Customer: John Doe, Project: East Washington Ave.*