Thursday, November 29, 2018

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

Project ID:  CROTON RIVER
Sample ID#s: CC00449 - CC00452

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

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102  Fax (860) 645-0823
Analysis Report
November 29, 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: Standard
P.O.#:

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

Date Time
11/19/18 12:20
11/19/18 16:46

Laboratory Data
SDG ID: GCC00449
Phoenix ID: CC00449

Parameter Result RL/ PQL Units AL MCL MCLG Date/Time By Reference
Extraction for 525.3 Completed 11/21/18 W/W E525.3

Semivolatile Organic
Fluridone 0.40 0.29 1 ug/L 11/21/18 MH E525.3

QA/QC Surrogates
74 1 % NA NA NA 11/21/18 MH 70 - 130 %
86 1 % NA NA NA 11/21/18 MH 70 - 130 %
86 1 % NA NA NA 11/21/18 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.


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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---

Ver 1

Page 3 of 14
**Sample Information**
- Matrix: DRINKING WATER
- Location Code: SOLITUDE
- Rush Request: Standard
- P.O.#:

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

**Date** | **Time**
--- | ---
11/19/18 | 12:15  
11/19/18 | 16:46

---

**Laboratory Data**

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

**Semivolatile Organic**

**Fluridone**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Result</th>
<th><strong>RL/PQL</strong></th>
<th><strong>DIL</strong></th>
<th><strong>Units</strong></th>
<th><strong>Date/Time</strong></th>
<th><strong>By</strong></th>
<th><strong>Reference</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluridone</td>
<td>0.36</td>
<td>0.29</td>
<td>1</td>
<td>ug/L</td>
<td>11/28/18</td>
<td>MH</td>
<td>E525.3</td>
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</table>

**QA/QC Surrogates**

<table>
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<tr>
<th>Parameter</th>
<th>Result</th>
<th><strong>RL/PQL</strong></th>
<th><strong>DIL</strong></th>
<th><strong>Units</strong></th>
<th><strong>Date/Time</strong></th>
<th><strong>By</strong></th>
<th><strong>Reference</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3-Dimethyl-2-nitrobenzene</td>
<td>53</td>
<td>1</td>
<td></td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>11/28/18</td>
</tr>
<tr>
<td>benzo(a)pyrene-d12</td>
<td>71</td>
<td>1</td>
<td></td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>11/28/18</td>
</tr>
<tr>
<td>Triphenylphosphate</td>
<td>72</td>
<td>1</td>
<td></td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>11/28/18</td>
</tr>
</tbody>
</table>

---

Ver 1
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.

525 Analysis Comment:
A surrogate recovery was outside control limits for 525. Sample was reanalyzed. No sample bias is suspected.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 29, 2018
Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report

November 29, 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: Standard

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

Date Time
11/19/18 12:30
11/19/18 16:46

Laboratory Data
SDG ID: GCC00449
Phoenix ID: CC00451

Project ID: CROTON RIVER
Client ID: DW3-A

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<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>
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<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Semivolatile Organic</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Fluridone</td>
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<td>0.29</td>
<td>1</td>
<td>ug/L</td>
<td></td>
<td></td>
<td></td>
<td>11/21/18</td>
<td>MH</td>
<td>E525.3</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>
</tr>
<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>70</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td></td>
<td>11/21/18</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
<tr>
<td>% benzo(a)pyrene-d12</td>
<td>83</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td></td>
<td>11/21/18</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
<tr>
<td>% Triphenylphosphate</td>
<td>81</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td></td>
<td>11/21/18</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.


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---

**Phyllis Shiller, Laboratory Director**

**November 29, 2018**

Reviewed and Released by: Bobbi Aloisa, Vice President

---

<table>
<thead>
<tr>
<th>Parameter</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>
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<tbody>
<tr>
<td></td>
<td>Result</td>
<td>PQL</td>
<td></td>
<td></td>
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<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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.
Sample Information
Matrix: DRINKING WATER
Location Code: SOLITUDE
Rush Request: Standard
P.O.#: 

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

Date
11/19/18
11/19/18
11/19/18

Time
12:05
16:46

Laboratory Data
SDG ID: GCC00449
Phoenix ID: CC00452

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

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<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>
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</thead>
<tbody>
<tr>
<td>Extraction for 525.3</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>11/21/18</td>
<td>W/W</td>
<td>E525.3</td>
</tr>
<tr>
<td>Fluridone</td>
<td>0.30</td>
<td>0.29</td>
<td>1</td>
<td>ug/L</td>
<td></td>
<td></td>
<td></td>
<td>11/21/18</td>
<td>MH</td>
<td>E525.3</td>
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</table>

Semivolatile Organic

Fluridone

<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>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>83</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>11/21/18</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
<tr>
<td>% benzo(a)pyrene-d12</td>
<td>99</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>11/21/18</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
<tr>
<td>% Triphenylphosphate</td>
<td>96</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>11/21/18</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
</tbody>
</table>
Parameter Result RL/ PQL DIL Units AL MCL MCLG Date/Time By Reference

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Phyllis Shiller, Laboratory Director

November 29, 2018

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

## QA/QC Data

**SDG I.D.: GCC00449**

**Parameter** | **Blank** | **RL** | **LCS %** | **LCSD %** | **LCS RPD %** | **MS %** | **MSD %** | **MS RPD %** | **% Rec Limits** | **% RPD Limits**
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---

### Semivolatile Organic Compounds - Drinking Water

<table>
<thead>
<tr>
<th>Compound</th>
<th>Value</th>
<th>Spec. Range</th>
<th>Recovery</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluridone</td>
<td>ND</td>
<td>0.30</td>
<td>74</td>
<td>96</td>
</tr>
<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>76/%</td>
<td>66/83</td>
<td>85</td>
<td>2.4</td>
</tr>
<tr>
<td>% benzo(a)pyrene-d12</td>
<td>80</td>
<td></td>
<td>79/89</td>
<td>95</td>
</tr>
<tr>
<td>% Triphenylphosphate</td>
<td>86</td>
<td></td>
<td>81/93</td>
<td>100</td>
</tr>
</tbody>
</table>

**Comment:**

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

### Semivolatile Organic Compounds - Drinking Water

<table>
<thead>
<tr>
<th>Compound</th>
<th>Value</th>
<th>Spec. Range</th>
<th>Recovery</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluridone</td>
<td>102</td>
<td>82/80/21.7</td>
<td>102</td>
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<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>92/%</td>
<td>92/80/14.0</td>
<td>93</td>
<td></td>
</tr>
<tr>
<td>% benzo(a)pyrene-d12</td>
<td>83</td>
<td></td>
<td>98/85</td>
<td></td>
</tr>
<tr>
<td>% Triphenylphosphate</td>
<td>91</td>
<td></td>
<td>100</td>
<td></td>
</tr>
</tbody>
</table>

**Comment:**

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

---

I = This parameter is outside laboratory LCS/LCSD specified recovery limits.

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

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference
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.

<table>
<thead>
<tr>
<th>SampNo</th>
<th>Acode</th>
<th>Phoenix Analyte</th>
<th>Criteria</th>
<th>Result</th>
<th>RL</th>
<th>Criteria</th>
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<th>Analysis</th>
<th>Units</th>
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<tbody>
<tr>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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 1.0°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)
# NY/NJ Chain of Custody Record

**Customer:** SLM  
**Address:** 310 East Washington Ave, Suite C  
**Washington, NJ 07882**

**Project:** Croton River  
**Report to:** Chris Doyle  
**Invoice to:** Keata M.

<table>
<thead>
<tr>
<th>Sample #</th>
<th>Matrix</th>
<th>Date Sampled</th>
<th>Time Sampled</th>
</tr>
</thead>
<tbody>
<tr>
<td>C004149</td>
<td>DW</td>
<td>11/9/18</td>
<td>10:20am</td>
</tr>
<tr>
<td>C004560</td>
<td>DW-1A</td>
<td>11/9/18</td>
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</tr>
<tr>
<td>C004561</td>
<td>DW-1A</td>
<td>11/9/18</td>
<td>10:30am</td>
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<tr>
<td>C004562</td>
<td>DW-1A</td>
<td>11/9/18</td>
<td>10:30am</td>
</tr>
</tbody>
</table>

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

**Analysis Request:**  
- 505

**Relinquished by:**  
**Accepted by:**  
**Date:** 11/19/18  
**Time:** 2:40

**Comments, Special Requirements or Regulations:**

**What State were samples collected in?:**

- [ ] Subpart 5 DW
- [ ] 375SCD
- [ ] 375SCD Commercial Soil
- [ ] 375SCD Industrial Soil
- [ ] 375SCD Residential Soil
- [ ] 375SCD Residential Soil
- [ ] TOGS GW
- [ ] CP-51 SOIL
- [ ] Unrestricted Soil
- [ ] Impact to GW Soil Cleanup Criteria
- [ ] Impact to GW soil screen Criteria

**Data Format:**
- [ ] Phoenix Std Report
- [ ] Excel
- [ ] PEF
- [ ] GIS/Key
- [ ] EGIS
- [ ] N, Hazmat
- [ ] NY EDD
- [ ] Enhanced (ASB)

**Data Package:**
- [ ] NY Reduced Deliv
- [ ] NY Enhanced (ASB)

**Contact Options:**
- [ ] Fax: 908-260-0303
- [ ] Phone: 908-260-0303
- [ ] Email: npphoenix@submittalake.com