Monday, September 11, 2017

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

Project ID: CROTON RIVER
Sample ID#s: BY95171 - BY95178

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,

[Signature]
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  VT Lab Registration #VT11301
Analysis Report
September 11, 2017

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: CD
Received by: B
Analyzed by: see “By” below

Laboratory Data
SDG ID: GBY95171
Phoenix ID: BY95171

Parameter | Result | RL/PQL | DIL | Units | AL | MCL | MCLG | Date/Time | By | Reference
---|---|---|---|---|---|---|---|---|---|---
Extraction for 525.3 | Completed | | | | | | | 09/05/17 | H/H | E525.3

Semivolatile Organic
Fluridone | 1.2 | 0.29 | 1 | ug/L | | | | 09/07/17 | MH | E525.3

QA/QC Surrogates
% 1,3-Dimethyl-2-nitrobenzene | 80 | 1 | % | NA | NA | NA | 09/07/17 | MH | 70 - 130 %
% benzo(a)pyrene-d12 | 102 | 1 | % | NA | NA | NA | 09/07/17 | MH | 70 - 130 %
% Triphenylphosphate | 111 | 1 | % | NA | NA | NA | 09/07/17 | MH | 70 - 130 %
**Parameter** | **Result** | **PQL** | **DIL** | **Units** | **AL** | **MCL** | **MCLG** | **Date/Time** | **By** | **Reference**
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---

1 \[=\] This parameter is not certified by 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.

**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.

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.

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Phyllis Shiller, Laboratory Director

September 11, 2017

Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report
September 11, 2017

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: CD
Received by: B
Analyzed by: see “By” below

Laboratory Data
SDG ID: GBY95171
Phoenix ID: BY95172

Project ID: CROTON RIVER
Client ID: DW1-B

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<tr>
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<td>92</td>
<td>1</td>
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<tr>
<td>% benzo(a)pyrene-d12</td>
<td>106</td>
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<td>%</td>
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<td>NA</td>
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<td>MH</td>
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<tr>
<td>% Triphenylphosphate</td>
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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

September 11, 2017

Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report
September 11, 2017

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: CD
- Received by: B
- Analyzed by: see "By" below

Laboratory Data

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<td>% benzo(a)pyrene-d12</td>
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<td>%</td>
<td>NA</td>
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<td>% Triphenylphosphate</td>
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<td>NA</td>
<td>NA</td>
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September 11, 2017

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Analysis Report
September 11, 2017

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: CD
Received by: B
Analyzed by: see "By" below

Laboratory Data
SDG ID: GBY95171
Phoenix ID: BY95174

Parameter Result

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<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
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<td>NA</td>
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<td>09/07/17</td>
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<tr>
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<td>%</td>
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<td>09/07/17</td>
<td>MH</td>
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<tr>
<td>% Triphenylphosphate</td>
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<th>By Reference</th>
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</table>

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**Phyllis Shiller, Laboratory Director**  
September 11, 2017  
Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report
September 11, 2017

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

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

Laboratory Data
SDG ID: GBY95171
Phoenix ID: BY95175

Parameter Result
RL/ PQL Units Date/Time By Reference

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<td>09/11/17</td>
<td>MH</td>
<td>70 - 130 %</td>
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September 11, 2017

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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: CD
Received by: B
Analyzed by: see "By" below

Laboratory Data
SDG ID: GBY95171
Phoenix ID: BY95176

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<td>Date/Time</td>
<td>By</td>
<td>Reference</td>
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1 = This parameter is not certified by 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 11, 2017

Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report  
September 11, 2017

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: CD  
Received by: B  
Analysed by: see "By" below

Laboratory Data

<table>
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<tr>
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Semivolatile Organic

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<tr>
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<td>1,3-Dimethyl-2-nitrobenzene</td>
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<tr>
<td>benzo(a)pyrene-d12</td>
<td>81</td>
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<tr>
<td>Triphenylphosphate</td>
<td>75</td>
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Ver 1
Parameters

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<th>MCL</th>
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3 = This parameter exceeds laboratory specified limits.

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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.

525 Analysis Comment:
Poor surrogate recovery was observed. Sample was analyzed twice with similar results.

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

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Phyllis Shiller, Laboratory Director

September 11, 2017

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

**September 11, 2017**

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

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

#### Laboratory Data
- **SDG ID:** GBY95171
- **Phoenix ID:** BY95178

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<td>MH</td>
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</tr>
<tr>
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</tr>
<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>79</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td></td>
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<td>09/08/17</td>
<td>MH</td>
<td>70 - 130 %</td>
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<tr>
<td>% benzo(a)pyrene-d12</td>
<td>80</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
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<td>09/08/17</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
<tr>
<td>% Triphenylphosphosphate</td>
<td>98</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
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<td>70 - 130 %</td>
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</table>

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Comments:

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Phyllis Shiller, Laboratory Director
September 11, 2017
Reviewed and Released by: Bobbi Aloisa, Vice President
# QA/QC Report

**September 11, 2017**

### QA/QC Data

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<th>MSD</th>
<th>MSD</th>
<th>RPD Limits</th>
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<tr>
<td><strong>Semivolatile Organic Compounds - Drinking Water</strong></td>
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<tr>
<td>Fluridone</td>
<td>ND</td>
<td>0.30</td>
<td>111</td>
<td>71</td>
<td>89</td>
<td>22.5</td>
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<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
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<td>%</td>
<td>88</td>
<td>68</td>
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<td>%</td>
<td>97</td>
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<td>101</td>
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<tr>
<td>% Triphenylphosphate</td>
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<td>84</td>
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<td>21.3</td>
<td>70 - 130</td>
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<tr>
<td>Tap water, collected and dechlorinated in sample containers, was used as the MS and MSD.</td>
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<td><strong>Semivolatile Organic Compounds - Drinking Water</strong></td>
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<td>71</td>
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<td>84</td>
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<td>% benzo(a)pyrene-d12</td>
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</tr>
</tbody>
</table>

**m** = This parameter is outside laboratory MS/MSD 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

---

Phyllis Shiller, Laboratory Director

September 11, 2017
**Sample Criteria Exceedances Report**

**GBY95171 - SOLITUDE**

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<th>RL</th>
<th>Criteria</th>
<th>RL Criteria</th>
<th>Analysis</th>
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***No Data to Display***

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.
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 1.4°C. (Note acceptance criteria is above freezing up to 6°C)
# NY/NJ CHAIN OF CUSTODY RECORD

**Customer:** Solid Waste Management  
**Address:** 310 E. Washington Ave.  
**City:** Washington, NJ 07882

**Project:** Catoctin River  
**Report to:** Chris Dyer  
**Invoice to:** Attn: Kris

**Sample's Information Identification**  
**Date:** 9/5/17  
**Signature:** [Signature]

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

**PHOENIX USE ONLY SAMPLE #**  
**Identification**  
**Sample Matrix**  
**Date Sampled**  
**Time Sampled**  
**Status**

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**Analysis Request**

**Requisition:**  
**Date:** 9/5/17  
**Time:** 12:28  
**Turnaround:**  
- 1 Day*  
- 2 Days*  
- 3 Days*  
- 5 Days  
- 10 Days  
- Other  

**NJ:**  
- Res. Criteria  
- Non-Res. Criteria  
- Impact to GW Soil Cleanup Criteria  
- GW Criteria

**NY:**  
- TAGM 4046 GW  
- TAGM 4046 SOIL  
- NY375 Unrestricted Use Soil  
- NY375 Residential Soil  
- Restricted/Residential  
- Commercial  
- Industrial

**Comments, Special Requirements or Regulations:**  
3 Day TAT with CD 9/5/17  
Time: 12:15 P.M.

**State where samples were collected:** NJ