Tuesday, July 18, 2017

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

Project ID:  CROTON RIVER
Sample ID#s: BY60048 - BY60055

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 #MA-CT-007  PA Lab Registration #68-03530
ME Lab Registration #CT-007  RI Lab Registration #63
NH Lab Registration #213693-A,B  VT Lab Registration #VT11301
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102            Fax (860) 645-0823

Analysis Report
July 18, 2017

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

<table>
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Laboratory Data

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| Semivolatile Organic       |         |         |     |       |    |     |      |           |    |           |
| Fluridone                  | ND      | 0.29    | 1   | ug/L  |    |     |      | 07/15/17  | MH | E525.3    |

| QA/QC Surrogates           |         |         |     |       |    |     |      |           |    |           |
| % 1,3-Dimethyl-2-nitrobenzene| 85      | 1       | %   | NA    | NA |     |      | 07/15/17  | MH | 70 - 130 %|
| % benzo(a)pyrene-d12       | 85      | 1       | %   | NA    | NA | NA  |      | 07/15/17  | MH | 70 - 130 %|
| % Triphenylphosphate       | 74      | 1       | %   | NA    | NA | NA  |      | 07/15/17  | 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.

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Phyllis Shiller, Laboratory Director
July 18, 2017

Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report
July 18, 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: SW
Analyzed by: see "By" below

Laboratory Data
SDG ID: GBY60048
Phoenix ID: BY60049

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QA/QC Surrogates

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<td>% benzo(a)pyrene-d12</td>
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<td>% Triphenylphosphate</td>
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<td>NA</td>
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Project ID: CROTON RIVER
Client ID: DW 1-B

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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 18, 2017

Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report
July 18, 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: SW
- Analyzed by: see "By" below

Laboratory Data
- SDG ID: GBY60048
- Phoenix ID: BY60050

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<td>%</td>
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<td>NA</td>
<td>NA</td>
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<td>% Triphenylphosphate</td>
<td>97</td>
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<td>%</td>
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<td>NA</td>
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**Parameter** | **Result** | **PQL** | **DIL** | **Units** | **AL** | **MCL** | **MCLG** | **Date/Time** | **By** | **Reference**
---|---|---|---|---|---|---|---|---|---|---

**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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July 18, 2017

Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report
July 18, 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: SW
Analyzed by: see "By" below

Laboratory Data
SDG ID: GBY60048
Phoenix ID: BY60051

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<tr>
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<td>ug/L</td>
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<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
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<td>%</td>
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<td>NA</td>
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<td>% benzo(a)pyrene-d12</td>
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<td>%</td>
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<td>NA</td>
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<td>07/15/17</td>
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<td>% Triphenylphosphate</td>
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<td>%</td>
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<td>NA</td>
<td>NA</td>
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<td>07/15/17</td>
<td>MH</td>
<td>70 - 130 %</td>
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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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July 18, 2017

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Analysis Report
July 18, 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.#:

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<td>E525.3</td>
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Semivolatile Organic
Fluridone | ND | 0.29 | 1 | ug/L | | | | 07/15/17 | MH | E525.3 |

QA/QC Surrogates
% 1,3-Dimethyl-2-nitrobenzene | 81 | 1 | % | NA | NA | | | 07/15/17 | MH | 70 - 130 % |
% benzo(a)pyrene-d12 | 78 | 1 | % | NA | NA | | | 07/15/17 | MH | 70 - 130 % |
% Triphenylphosphate | 72 | 1 | % | NA | NA | | | 07/15/17 | 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.


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**Analysis Report**

**July 18, 2017**

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

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**Sample Information**

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

---

**Custody Information**

- **Collected by:** CD
- **Received by:** SW
- **Analyzed by:** see “By” below

---

**Laboratory Data**

- **SDG ID:** GBY60048
- **Phoenix ID:** BY60053

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**Parameter**

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<tr>
<td>% benzo(a)pyrene-d12</td>
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<td>1 %</td>
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<td>NA</td>
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July 18, 2017

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Analysis Report
July 18, 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
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<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>78</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>07/15/17</td>
<td>MH</td>
<td>70 - 130 %</td>
<td></td>
</tr>
<tr>
<td>% benzo(a)pyrene-d12</td>
<td>71</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>07/15/17</td>
<td>MH</td>
<td>70 - 130 %</td>
<td></td>
</tr>
<tr>
<td>% Triphenylphosphate</td>
<td>70</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>07/15/17</td>
<td>MH</td>
<td>70 - 130 %</td>
<td></td>
</tr>
</tbody>
</table>
Parameter | Result | RL/ PQL | DIL | Units | AL | MCL | MCLG Date/Time | By | Reference
---|---|---|---|---|---|---|---|---|---

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  
July 18, 2017  
Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report
July 18, 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: SW
Analyzed by: see "By" below

Laboratory Data
SDG ID: GBY60048
Phoenix ID: BY60055

Client ID: FW1-B
Project ID: CROTON RIVER

Parameter | Result | RL/ PQL | DIL | Units | AL | MCL | MCLG | Date/Time | By | Reference
----------|--------|---------|-----|-------|----|-----|------|-----------|----|----------
Extraction for 525.3 | Completed | | | | | | | 07/14/17 | H/H | E525.3

Semivolatile Organic
Fluridone | ND | 0.29 | 1 | ug/L | 07/15/17 | MH | E525.3

QA/QC Surrogates
% 1,3-Dimethyl-2-nitrobenzene | 87 | 1 | % | NA | NA | NA | 07/15/17 | MH | 70 - 130 %
% benzo(a)pyrene-d12 | 79 | 1 | % | NA | NA | NA | 07/15/17 | MH | 70 - 130 %
% Triphenylphosphate | 75 | 1 | % | NA | NA | NA | 07/15/17 | MH | 70 - 130 %

Ver 1
<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>
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</thead>
</table>

R L/PQL = Reporting/Practical Quantitation Level  DIL = Dilution (analysis required diluting to evaluate)  ND = Not Detected  
BRL = Below Reporting Level (lower than the reporting level, the lowest amount the laboratory can detect and report.)  
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Phyllis Shiller, Laboratory Director  
July 18, 2017  
Reviewed and Released by: Bobbi Aloisa, Vice President
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Blank</th>
<th>LCS</th>
<th>LCSD</th>
<th>LCS</th>
<th>MS</th>
<th>MSD</th>
<th>MS</th>
<th>% Rec Limits</th>
<th>% RPD Limits</th>
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</thead>
<tbody>
<tr>
<td>QA/QC Batch 393857 (ug/L), QC Sample No: BY60048 (BY60048, BY60049, BY60051, BY60052, BY60053, BY60054, BY60055)</td>
<td>Blk RL</td>
<td>LCS %</td>
<td>LCSD</td>
<td>LCS</td>
<td>MS %</td>
<td>MSD</td>
<td>MS</td>
<td>RPD</td>
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<tr>
<td>Semivolatile Organic Compounds - Drinking Water</td>
<td>ND 0.30</td>
<td>73</td>
<td>95</td>
<td>86</td>
<td>9.9</td>
<td>70 - 130</td>
<td>20</td>
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<tr>
<td>Fluridone</td>
<td>ND</td>
<td>72</td>
<td>85</td>
<td>80</td>
<td>6.1</td>
<td>70 - 130</td>
<td>20</td>
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<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>77 %</td>
<td>72</td>
<td>85</td>
<td>80</td>
<td>6.1</td>
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<td>% benzo(a)pyrene-d12</td>
<td>74 %</td>
<td>74</td>
<td>88</td>
<td>81</td>
<td>8.3</td>
<td>70 - 130</td>
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<tr>
<td>% Triphenylphosphate</td>
<td>79 %</td>
<td>72</td>
<td>85</td>
<td>87</td>
<td>2.3</td>
<td>70 - 130</td>
<td>20</td>
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<tr>
<td>Comment: Tap water, collected and dechlorinated in sample containers, was used as the MS and MSD.</td>
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<tr>
<td>QA/QC Batch 393991 (ug/L), QC Sample No: BY60050 (BY60050)</td>
<td>Blk RL</td>
<td>LCS %</td>
<td>LCSD</td>
<td>LCS</td>
<td>MS %</td>
<td>MSD</td>
<td>MS</td>
<td>RPD</td>
<td>RPD</td>
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<tr>
<td>Semivolatile Organic Compounds - Drinking Water</td>
<td>ND 0.30</td>
<td>89</td>
<td>94</td>
<td>91</td>
<td>3.2</td>
<td>70 - 130</td>
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<td>Fluridone</td>
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<td>87</td>
<td>8.4</td>
<td>70 - 130</td>
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<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>85 %</td>
<td>92</td>
<td>94</td>
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<td>0.0</td>
<td>70 - 130</td>
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<tr>
<td>% benzo(a)pyrene-d12</td>
<td>93 %</td>
<td>92</td>
<td>94</td>
<td>94</td>
<td>0.0</td>
<td>70 - 130</td>
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<tr>
<td>% Triphenylphosphate</td>
<td>96 %</td>
<td>95</td>
<td>95</td>
<td>97</td>
<td>2.1</td>
<td>70 - 130</td>
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<tr>
<td>Comment: Tap water, collected and dechlorinated in sample containers, was used as the MS and MSD.</td>
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</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
Sample Criteria Exceedances Report
GBY60048 - SOLITUDE

<table>
<thead>
<tr>
<th>SampNo</th>
<th>Acode</th>
<th>Phoenix Analyte</th>
<th>Criteria</th>
<th>Result</th>
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</tbody>
</table>

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 2.0°C.
(Note acceptance criteria is above freezing up to 6°C)
# NY/NJ CHAIN OF CUSTODY RECORD

**Customer:** Solitude Life Management  
**Address:** 380 Lockport Rd  
**Hedehston, NY 07840**

**Project:** Custon River  
**Report to:** Chad Doyle  
**Invoice to:** D&B M.1.75

---

### 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 = Built
- L = Liquid

### PHOENIX USE ONLY SAMPLE #

<table>
<thead>
<tr>
<th>Customer Sample Identification</th>
<th>Sample Matrix</th>
<th>Date Sampled</th>
<th>Time Sampled</th>
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<tbody>
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<td>DW1-A</td>
<td>DW</td>
<td>7/14/17</td>
<td>0850</td>
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<tr>
<td>DW1-B</td>
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<tr>
<td>DW3-A</td>
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<td></td>
</tr>
<tr>
<td>FW1-B</td>
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<td></td>
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</tr>
</tbody>
</table>

### Turnaround
- □ 1 Day*  
- □ 2 Days*  
- □ 3 Days*  
- □ 5 Days  
- □ 10 Days  
- □ Other

### JCFA/Justice
- □ Res. Criteria  
- □ Non-Res. Criteria  
- □ Impact to GW Soil Cleanup Criteria  
- □ GW Criteria

### TAGM 4046
- □ GW  
- □ SOIL  
- □ NY375 Unrestricted Use Soil  
- □ NY375 Residential Soil  
- □ Restricted/Residential Commercial  
- □ Industrial

### Data Format
- □ Phoenix Std Report  
- □ Excel  
- □ PDF  
- □ GIS/Key  
- □ EQUS  
- □ NJ Hazwaste EDD  
- □ NY EZ EDD (ASP)  
- □ Other

### Data Package
- □ NY Reduced Deliv.  
- □ NY Enhanced (ASP B)  
- □ Other

---

**State where samples were collected:** NY