### Whole Effluent Toxicity Testing - Non-Potable Water

**Effective July 31, 2016**

**Blue = New Analyte**  
**Magenta = Changes**

<table>
<thead>
<tr>
<th>Matrix Code</th>
<th>EPA Test</th>
<th>EPA Method</th>
<th>Analyte</th>
<th>Analyte Technology</th>
<th>EPA Reference Code</th>
<th>Reference Toxicants and Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Potassium chloride</td>
</tr>
<tr>
<td>NPW 0013</td>
<td>2000.0</td>
<td>754</td>
<td>Fathead minnow (Pimephales promelas), 48-hr Acute, nonrenewal, 25°C, MHSF</td>
<td>LC50 (mg/L)</td>
<td>2000</td>
<td>2.2</td>
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<tr>
<td>NPW 0014</td>
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<td>Fathead minnow (Pimephales promelas), 48-hr Acute, nonrenewal, 25°C, 20% DMW</td>
<td>LC50 (mg/L)</td>
<td>2000</td>
<td>8.8</td>
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<tr>
<td>NPW 0015</td>
<td>1000.0</td>
<td>756</td>
<td>Fathead minnow (Pimephales promelas), 7-day Chronic, daily renewal, MHSF</td>
<td>NOEC Survival (mg/L)</td>
<td>2000</td>
<td>2.2</td>
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<tr>
<td>NPW 0016</td>
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<td>757</td>
<td>Fathead minnow (Pimephales promelas), 7-day Chronic, daily renewal, MHSF</td>
<td>IC25 (ON) Growth (mg/L)</td>
<td>2000</td>
<td>2.2</td>
</tr>
<tr>
<td>NPW 0019</td>
<td>2002.0</td>
<td>764</td>
<td>Ceriodaphnia dubia, 48-hr Acute, nonrenewal, 25°C, MHSF</td>
<td>LC50 (mg/L)</td>
<td>1000</td>
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<tr>
<td>NPW 0020</td>
<td>2002.0</td>
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<td>Ceriodaphnia dubia, 48-hr Acute, nonrenewal, 25°C, 20% DMW</td>
<td>LC50 (mg/L)</td>
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<tr>
<td>NPW 0021</td>
<td>1002.0</td>
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<td>Ceriodaphnia dubia, 3-Brood Chronic, daily renewal, MHSF</td>
<td>NOEC Survival (mg/L)</td>
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<td>1.5</td>
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<tr>
<td>NPW 0022</td>
<td>1002.0</td>
<td>767</td>
<td>Ceriodaphnia dubia, 3-Brood Chronic, daily renewal, MHSF</td>
<td>IC25 (ON) Reproduction (mg/L)</td>
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<td>1.5</td>
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<tr>
<td>NPW 0032</td>
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<td>Daphnia magna, 48-hr Acute, nonrenewal, 25°C, MHSF</td>
<td>LC50 (mg/L)</td>
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<td>NPW 0038</td>
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<td>Daphnia pulex, 48-hr Acute, nonrenewal, 25°C, MHSF</td>
<td>LC50 (mg/L)</td>
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<tr>
<td>NPW 0042</td>
<td>2007.0</td>
<td>798</td>
<td>Mysid (Mysidopsis bahia, Americamysis bahia), 48-hr Acute, nonrenewal, 25°C, SSW</td>
<td>LC50 (mg/L)</td>
<td>1200</td>
<td>17.6</td>
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<tr>
<td>NPW 0043</td>
<td>1007.0</td>
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<td>Mysid (Mysidopsis bahia, Americamysis bahia), 7-day Chronic, daily renewal, SSW</td>
<td>NOEC Survival (mg/L)</td>
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<td>NPW 0044</td>
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<td>Inland silverside (Menidia beryllina), 48-hr Acute, nonrenewal, 25°C, SSW</td>
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<td>35.3</td>
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<tr>
<td>NPW 0045</td>
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<td>824</td>
<td>Inland silverside (Menidia beryllina), 7-day Chronic, daily renewal, SSW</td>
<td>NOEC Survival (mg/L)</td>
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<tr>
<td>NPW 0045</td>
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<td>825</td>
<td>Inland silverside (Menidia beryllina), 7-day Chronic, daily renewal, SSW</td>
<td>IC25 (ON) Growth (mg/L)</td>
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<td>NPW 0045</td>
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<td>NPW 0046</td>
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<td>Sheepshead minnow (Cyprinodon variegatus), 48-hr Acute, nonrenewal, 25°C, SSW</td>
<td>LC50 (mg/L)</td>
<td>6000</td>
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</tbody>
</table>
### TNI PT for Accreditation
#### Fields of Proficiency Testing
**Whole Effluent Toxicity Testing - Non-Potable Water**
*Effective July 31, 2016*

Blue = New Analyte  
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<table>
<thead>
<tr>
<th>NPW</th>
<th>Test Code</th>
<th>Analyte Code</th>
<th>Analyte Description</th>
<th>Unit</th>
<th>NOEC Survival</th>
<th>Unit</th>
<th>IC25 (ON) Growth</th>
<th>Unit</th>
<th>NOEC (ON) Growth</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>0047</td>
<td>1004.0</td>
<td>805</td>
<td>Sheepshead minnow (Cyprinodon variegatus), 7-day Chronic, daily renewal, SSW</td>
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<td>NOEC Survival</td>
<td>3000</td>
<td>IC25 (ON) Growth</td>
<td>3000</td>
<td>NOEC (ON) Growth</td>
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<tr>
<td>0047</td>
<td>1004.0</td>
<td>820</td>
<td>Sheepshead minnow (Cyprinodon variegatus), 7-day Chronic, daily renewal, SSW</td>
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<td>IC25 (ON) Growth</td>
<td>3000</td>
<td>NOEC (ON) Growth</td>
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<tr>
<td>0047</td>
<td>1004.0</td>
<td>822</td>
<td>Sheepshead minnow (Cyprinodon variegatus), 7-day Chronic, daily renewal, SSW</td>
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<td>NOEC (ON) Growth</td>
<td>3000</td>
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</tbody>
</table>

1) EPA Test Code and Analyte Code are Technology and Analyte specific.

2) Dilution Water definition:
   - MHSF = Moderately Hard Synthetic Freshwater
   - DMW = Diluted Mineral Water
   - SSW = Synthetic seawater

3) Analyte definitions:
   - LC50 = Concentration where 50% of the organisms do not survive.
   - NOEC = No Observable Effects Concentration
   - IC25 = Concentration where there is 25% reduction in growth or reproduction.
   - ON = Calculation based on Original Number of organisms used to start the test.

4) Reference Toxicant Concentrations are shown as guidance.

5) Reference Toxicant Concentrations shown above are as the toxicant salt or compound.

6) Proficiency Study Assigned Values (AV):
   - NOEC Analytes: AV should be set to the Study Median of the data reported by laboratories; reported values are <6.25%, 6.25%, 12.5%, 25%, 50%, 100%, or >100%. If the Median falls between two of these values, then the AV is set at the higher value.
   - Non-NOEC Analytes: AV should be set to the Study Mean, calculated using reported values from 6.25% and 100%, inclusive.
   - Robust Study Mean and Standard Deviation are generated using appropriate statistical analysis of study data set. (e Bi-weight, Grubbs, Dixon, ISO 13528, etc.)

7) Proficiency Testing Acceptance Limits:
   - NOEC Analytes: Lower Acceptance Limit is the test dilution below the Median (or <6.25%, whichever is higher); Upper Acceptance Limit is the test dilution above the Median (or >100%, whichever is lower).
   - If the Median is between two test dilutions, then the Lower Acceptance Limit is the second test dilution below the Median, and the Upper Acceptance Limit is the second test dilution above the Median.
   - Non-NOEC Analytes: Mean +/- 2 Standard Deviations. If the upper limit is greater than 100%, then set the Upper Acceptance Limit at “>100%.” If the lower limit is less than 6.25%, then set the Lower Acceptance Limit to “<6.25%.”

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2 of 2  
7-31-2016 Rev. 0.1