Appendix S

WATER AND SEDIMENT QUALITY DATA TABLES
## WATER QUALITY

### Table 1. LDEQ Field Parameter Results for Calcasieu River (2000-2006)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Location</th>
<th>Burton Landing</th>
<th>Hackberry, L.A.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>High</td>
<td>Low</td>
<td>Mean</td>
</tr>
<tr>
<td>Dissolved Oxygen (mg/L)</td>
<td>9.91</td>
<td>2.87</td>
<td>6.25</td>
</tr>
<tr>
<td>pH (Standard)</td>
<td>7.92</td>
<td>3.6</td>
<td>7.25</td>
</tr>
<tr>
<td>Salinity (%)</td>
<td>27.5</td>
<td>0</td>
<td>11.3</td>
</tr>
<tr>
<td>Total Suspended Solids (mg/L)</td>
<td>60</td>
<td>4.5</td>
<td>20.32</td>
</tr>
<tr>
<td>Turbidity (NTU)</td>
<td>70</td>
<td>3.2</td>
<td>14.74</td>
</tr>
<tr>
<td>Temperature (°C)</td>
<td>31.93</td>
<td>8.94</td>
<td>22.18</td>
</tr>
<tr>
<td>Specific Conductance (mS/cm)</td>
<td>42710</td>
<td>105</td>
<td>18028</td>
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</table>

Source: LDEQ, 2006

### Table 2. LDEQ Surface Water Quality Results for Calcasieu River at Burton Landing (2000-2006)

<table>
<thead>
<tr>
<th>Toxic Substance</th>
<th>Water Quality Data</th>
<th>LDEQ Criteria</th>
<th>Marine Water</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mean</td>
<td>Low</td>
<td>High</td>
</tr>
<tr>
<td>Volatile Organic Chemicals</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Benzene</td>
<td>&lt;0.38</td>
<td>&lt;0.1</td>
<td>&lt;0.5</td>
</tr>
<tr>
<td>Carbon Tetrachloride (Tetrachloromethane)</td>
<td>&lt;0.38</td>
<td>&lt;0.1</td>
<td>&lt;0.5</td>
</tr>
<tr>
<td>Chloroform (Trichloromethane)</td>
<td>&lt;0.38</td>
<td>&lt;0.1</td>
<td>&lt;0.5</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>&lt;0.38</td>
<td>&lt;0.1</td>
<td>&lt;0.5</td>
</tr>
<tr>
<td>1,2-Dichloroethane (EDC)</td>
<td>&lt;0.42</td>
<td>&lt;0.1</td>
<td>1.3</td>
</tr>
<tr>
<td>1,1,1-Trichloroethane</td>
<td>&lt;0.38</td>
<td>&lt;0.1</td>
<td>&lt;0.5</td>
</tr>
<tr>
<td>1,1,2-Trichloroethane</td>
<td>&lt;0.38</td>
<td>&lt;0.1</td>
<td>&lt;0.5</td>
</tr>
<tr>
<td>1,1,2,2-Tetrachloroethane</td>
<td>&lt;0.38</td>
<td>&lt;0.1</td>
<td>&lt;0.5</td>
</tr>
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<td>1,1-Dichloroethylene</td>
<td>&lt;0.38</td>
<td>&lt;0.1</td>
<td>&lt;0.5</td>
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<td>Trichloroethylene</td>
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<td>&lt;0.1</td>
<td>&lt;0.5</td>
</tr>
<tr>
<td>Tetrachloroethylene</td>
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<td>&lt;0.5</td>
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<tr>
<td>Toluene</td>
<td>0.43</td>
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<td>1.6</td>
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<td>Vinyl Chloride (Chloroethylene)</td>
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<td>&lt;0.1</td>
<td>&lt;0.5</td>
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<tr>
<td>Bromoform (Tribromomethane)</td>
<td>0.49</td>
<td>&lt;0.1</td>
<td>1.25</td>
</tr>
<tr>
<td>Bromodichloromethane</td>
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<td>&lt;0.1</td>
<td>&lt;0.5</td>
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**Acid-Extractable Organic Chemicals**
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<th>Toxic Substance</th>
<th>Water Quality Data</th>
<th>LDEQ Criteria</th>
<th>Marine Water</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Mean</td>
<td>Low</td>
<td>High</td>
</tr>
<tr>
<td>Methylene chloride (Dichloromethane)</td>
<td>&lt;0.38</td>
<td>&lt;0.1</td>
<td>&lt;0.5</td>
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<td>&lt;0.1</td>
<td>&lt;0.5</td>
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<tr>
<td>Dibromochloromethane</td>
<td>0.42</td>
<td>&lt;1.0</td>
<td>&lt;1.1</td>
</tr>
<tr>
<td>1,3-Dichloropropene</td>
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<td>&lt;0.1</td>
<td>&lt;0.5</td>
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</tbody>
</table>

| Metals and Inorganics             |                  |               |             |       |
|-----------------------------------|------------------|---------------|-------------|
| Arsenic                           | 0.76  | 0.36  | 1.28  | 339.8 | 150   | 69    | 36      |
| Zinc                              | 151.8 | 0.09  | 1031  | 64    | 58    | 90    | 81      |
| Cadmium                           | 0.175 | 0.001 | 0.7   | 15    | 0.62  | 45.35 | 10      |
| Copper                            | 3.04  | 0.04  | 8.99  | 10    | 7     | 3.63  | 3.63    |
| Lead                              | 0.89  | 0.006 | 6.7   | 30    | 1.2   | 209   | 8.08    |
| Mercury                           | 0.004 | 0.00065 | 0.01 | 2.04  | 0.01211 | 2   | 0.02511 |
| Nickel                            | 2.73  | 0.03  | 8.15  | 788   | 88    | 74    | 8.2     |

Source: LDEQ, 2006

Table 3. LDEQ Surface Water Quality Results for Calcasieu River at Hackberry, Louisiana (2000-2006)
<table>
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<th>Water Quality Data</th>
<th>LDEQ Criteria</th>
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<td>Low</td>
</tr>
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<td>Chronic</td>
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<td>&lt;0.5</td>
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<td>&lt;0.5</td>
</tr>
<tr>
<td>1,1-Dichloroethylene</td>
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<td>&lt;0.5</td>
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<td>Trichloroethylene</td>
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<td>&lt;0.5</td>
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<td>Tetrachloroethylene</td>
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<td>&lt;0.5</td>
</tr>
<tr>
<td>Toluene</td>
<td>&lt;0.5</td>
<td>&lt;0.5</td>
</tr>
<tr>
<td>Vinyl Chloride (Chloroethylene)</td>
<td>&lt;0.5</td>
<td>&lt;0.5</td>
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<tr>
<td>Bromoform (Tribromomethane)</td>
<td>&lt;0.5</td>
<td>&lt;0.5</td>
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<tr>
<td>Bromodichloromethane</td>
<td>&lt;0.5</td>
<td>&lt;0.5</td>
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<td>Acid-Extractable Organic Chemicals</td>
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<td>Methylene chloride (Dichloromethane)</td>
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<td>&lt;0.5</td>
</tr>
<tr>
<td>Methyl chloride (Chloromethane)</td>
<td>&lt;0.5</td>
<td>&lt;0.5</td>
</tr>
<tr>
<td>Dibromochloromethane</td>
<td>&lt;0.5</td>
<td>&lt;0.5</td>
</tr>
<tr>
<td>1,1-Dichloropropene</td>
<td>&lt;0.5</td>
<td>&lt;0.5</td>
</tr>
<tr>
<td>Metals and Inorganics</td>
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<td></td>
</tr>
<tr>
<td>Arsenic</td>
<td>0.76</td>
<td>0.36</td>
</tr>
<tr>
<td>Zinc&lt;sup&gt;7,8&lt;/sup&gt;</td>
<td>30.88</td>
<td>0.59</td>
</tr>
<tr>
<td>Cadmium&lt;sup&gt;7,8&lt;/sup&gt;</td>
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<td>0.01</td>
</tr>
<tr>
<td>Copper&lt;sup&gt;7,8&lt;/sup&gt;</td>
<td>1.25</td>
<td>0.89</td>
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<tr>
<td>Lead&lt;sup&gt;7,8&lt;/sup&gt;</td>
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<td>0.02</td>
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<tr>
<td>Mercury&lt;sup&gt;7&lt;/sup&gt;</td>
<td>0.001</td>
<td>0.00311</td>
</tr>
<tr>
<td>Nickel&lt;sup&gt;7,8&lt;/sup&gt;</td>
<td>1.12</td>
<td>0.97</td>
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Source: LDEQ, 2006
**Table 4. Mean Results for Calcasieu River and Ship Channel Field Parameters**

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<td>Depth (ft.)</td>
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<tr>
<td>pH (standard)</td>
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</tr>
<tr>
<td>Specific Conductance (mS/cm)</td>
<td>33.0</td>
</tr>
<tr>
<td>Turbidity (NTU)</td>
<td>11.3</td>
</tr>
<tr>
<td>Temperature (°C)</td>
<td>14.0</td>
</tr>
<tr>
<td>Dissolved Oxygen (mg/L)</td>
<td>7.2</td>
</tr>
<tr>
<td>Salinity (%)</td>
<td>1.9</td>
</tr>
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</table>

Source: G.E.C., Inc.

**Table 5. Mean Results for Calcasieu Lake Field Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depth (ft.)</td>
<td>4.5</td>
</tr>
<tr>
<td>pH (standard)</td>
<td>7.74</td>
</tr>
<tr>
<td>Specific Conductance (mS/cm)</td>
<td>27.7</td>
</tr>
<tr>
<td>Turbidity (NTU)</td>
<td>18</td>
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<tr>
<td>Temperature (°C)</td>
<td>12</td>
</tr>
<tr>
<td>Dissolved Oxygen (mg/L)</td>
<td>10.23</td>
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<tr>
<td>Salinity (%)</td>
<td>1.68</td>
</tr>
</tbody>
</table>

Source: G.E.C., Inc.

**Table 6. Mean Results for SNWR Field Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depth (ft.)</td>
<td>1.9</td>
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<tr>
<td>pH (standard)</td>
<td>8.07</td>
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<tr>
<td>Specific Conductance (mS/cm)</td>
<td>20.3</td>
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<tr>
<td>Temperature (°C)</td>
<td>18.1</td>
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<tr>
<td>Dissolved Oxygen (mg/L)</td>
<td>8.98</td>
</tr>
<tr>
<td>Salinity (%)</td>
<td>1.21</td>
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</table>

Source: G.E.C., Inc.
<table>
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<th>Constituent of Concern</th>
<th>High/Low/Mean (ppm)</th>
<th>Obs./Det.</th>
<th>Louisiana Criteria (ppm)</th>
<th>USEPA Criteria (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute/Chronic</td>
<td>Acute/Chronic</td>
</tr>
<tr>
<td>4,4'-DDT</td>
<td>0.000011 0.0000046 0.0000095</td>
<td>5 5</td>
<td>0.00013 0.000001</td>
<td>0.00013 0.000001</td>
</tr>
<tr>
<td>alpha-BHC</td>
<td>0.0000027 0.00000095 0.00000207</td>
<td>5 4</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Ammonia</td>
<td>0.42 0.035 0.1688</td>
<td>5 5</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Arsenic</td>
<td>0.053 0.021 0.037625</td>
<td>8 8</td>
<td>0.069 0.036</td>
<td>0.069 0.036</td>
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<tr>
<td>Barium</td>
<td>0.09 0.054 0.066</td>
<td>8 8</td>
<td>N/A</td>
<td>N/A</td>
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<td>beta-BHC</td>
<td>0.0000012 0.00000094 0.0000001</td>
<td>5 3</td>
<td>N/A</td>
<td>N/A</td>
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<td>Chromium</td>
<td>0.016 0.0073 0.01</td>
<td>8 8</td>
<td>N/A</td>
<td>N/A</td>
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<td>Copper</td>
<td>0.0087 0.0062 0.00735</td>
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<td>delta-BHC</td>
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<td>N/A</td>
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<td>gamma-Chlordanne</td>
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<td>0.000009 0.000004</td>
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<td>Heptachlor epoxide</td>
<td>0.000018 0.00000094 0.000000756</td>
<td>5 2</td>
<td>N/A</td>
<td>0.000053 0.00000036</td>
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<tr>
<td>Mercury</td>
<td>0.00069 0.0002 0.000335</td>
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<td>0.002 0.00003</td>
<td>0.0018 0.00094</td>
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<tr>
<td>Nickel</td>
<td>0.018 0.013 0.0154</td>
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<td>0.074 0.0082</td>
<td>0.074 0.0082</td>
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<tr>
<td>Constituent of Concern</td>
<td>High/Low/Mean (ppm)</td>
<td>Obs./Det.</td>
<td>Louisiana Criteria (ppm)</td>
<td>USEPA Criteria (ppm)</td>
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<td>---------------------</td>
<td>-----------</td>
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<tr>
<td></td>
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<td>Acute/Chronic</td>
<td>Acute/Chronic</td>
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BRL - Below Reporting Limit; N/A - Not Applicable; Obs. - Number of Observations; Det. - Number of Detections

Source: G.E.C., Inc.

Table 8. Constituents Detected in the Upper Lake Reach

<table>
<thead>
<tr>
<th>Constituent of Concern</th>
<th>High/Low/Mean (ppm)</th>
<th>Obs./Det.</th>
<th>Louisiana Criteria (ppm)</th>
<th>USEPA Criteria (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute/Chronic</td>
<td>Acute/Chronic</td>
</tr>
<tr>
<td>4,4'-DDT</td>
<td>0.00000052</td>
<td>1</td>
<td>0.00013</td>
<td>0.00013</td>
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<tr>
<td></td>
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<td>1</td>
<td>0.0000001</td>
<td>0.000001</td>
</tr>
<tr>
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<td>Antimony</td>
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<td>0.069</td>
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<td>N/A</td>
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<td>0.012</td>
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<td>High/Low/Mean (ppm)</td>
<td>Obs./Det.</td>
<td>Louisiana Criteria (ppm)</td>
<td>USEPA Criteria (ppm)</td>
</tr>
<tr>
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<td>--------------------------</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute/Cronic</td>
<td>Acute/Cronic</td>
</tr>
<tr>
<td>Nickel</td>
<td>0.021 0.015 0.0175</td>
<td>4 4</td>
<td>0.074 0.0082</td>
<td>0.074 0.0082</td>
</tr>
<tr>
<td>Selenium</td>
<td>0.2 0.17 0.185</td>
<td>4 4</td>
<td>N/A</td>
<td>0.29 0.071</td>
</tr>
<tr>
<td>Zinc</td>
<td>0.0063 0.0029 0.0048</td>
<td>4 4</td>
<td>0.09 0.081</td>
<td>0.09 0.081</td>
</tr>
</tbody>
</table>

DBL – Below Reporting Limit; N/A – Not Applicable; Obs. – Number of Observations; Det. – Number of Detections

Source: G.E.C., Inc.

Table 9. Constituents Detected in the Lower Lake Reach

<table>
<thead>
<tr>
<th>Constituent of Concern</th>
<th>High/Low/Mean (ppm)</th>
<th>Obs./Det.</th>
<th>Louisiana Criteria (ppm)</th>
<th>USEPA Criteria (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute/Cronic</td>
<td>Acute/Cronic</td>
</tr>
<tr>
<td>alpha-BHC</td>
<td>0.00000018 0.00000018 0.00000018</td>
<td>1 1</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Ammonia</td>
<td>1.1 1.1 1.1</td>
<td>1 1</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Antimony</td>
<td>0.0046 0.002 0.0027</td>
<td>4 2</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Arsenic</td>
<td>0.064 0.042 0.052</td>
<td>4 4</td>
<td>0.069 0.036</td>
<td>0.069 0.036</td>
</tr>
<tr>
<td>Barium</td>
<td>0.048 0.035 0.041</td>
<td>4 4</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>beta-BHC</td>
<td>0.00000039 0.00000039 0.00000039</td>
<td>1 1</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Chromium</td>
<td>0.025 0.0047 0.012</td>
<td>4 4</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Copper</td>
<td>0.0097 0.0062 0.0078</td>
<td>4 4</td>
<td>0.0036 0.0036</td>
<td>0.0048 0.0031</td>
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<tr>
<td>Constituent of Concern</td>
<td>High/Low/Mean (ppm)</td>
<td>Obs./Det.</td>
<td>Louisiana Criteria (ppm)</td>
<td>USEPA Criteria (ppm)</td>
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<tr>
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<td>-----------</td>
<td>--------------------------</td>
<td>----------------------</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>Acute/Chronic</td>
<td>Acute/Chronic</td>
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<td>delta-BHC</td>
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<td>1 1</td>
<td>N/A</td>
<td>N/A</td>
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<td>Endrin</td>
<td>0.0000044 0.0000044 0.0000044</td>
<td>1 1</td>
<td>0.0000037 0.0000023</td>
<td>0.0000037 0.0000023</td>
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<tr>
<td>gamma-Chlordane</td>
<td>0.0000017 0.0000017 0.0000017</td>
<td>1 1</td>
<td>0.000009 0.0000004</td>
<td>0.000009 0.0000004</td>
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<tr>
<td>Heptachlor epoxide</td>
<td>0.000029 0.000029 0.000029</td>
<td>1 1</td>
<td>N/A</td>
<td>0.0000053 0.0000036</td>
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<tr>
<td>Mercury</td>
<td>0.0031 0.0002 0.0011</td>
<td>4 2</td>
<td>0.002 0.00003</td>
<td>0.0018 0.00094</td>
</tr>
<tr>
<td>Nickel</td>
<td>0.023 0.016 0.019</td>
<td>4 4</td>
<td>0.074 0.0082</td>
<td>0.074 0.0082</td>
</tr>
<tr>
<td>Selenium</td>
<td>0.23 0.18 0.197</td>
<td>4 4</td>
<td>N/A</td>
<td>0.29 0.071</td>
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<td>Zinc</td>
<td>0.0056 0.002 0.00357</td>
<td>4 3</td>
<td>0.09 0.081</td>
<td>0.09 0.081</td>
</tr>
</tbody>
</table>

DBL – Below Reporting Limit; N/A – Not Applicable; Obs. – Number of Observations; Det. – Number of Detections

Source: G.E.C., Inc.

SEDIMENT

Table 10. Sediment Results for the River Segment Reach

<table>
<thead>
<tr>
<th>Constituent of Concern</th>
<th>High/Low/Mean (ppm)</th>
<th>Obs./Det.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4'-DDT</td>
<td>0.0067 0.0018 0.0024</td>
<td>17 6</td>
</tr>
<tr>
<td>Ammonia</td>
<td>61 0.43 32.2</td>
<td>17 6</td>
</tr>
<tr>
<td>Constituent of Concern</td>
<td>High/Low/Mean (ppm)</td>
<td>Obs./Det.</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>---------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Antimony</td>
<td>0.38</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td>0.14</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>0.19</td>
<td></td>
</tr>
<tr>
<td>Arsenic</td>
<td>2.5</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td>1.74</td>
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</tr>
<tr>
<td>Barium</td>
<td>380</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td>66</td>
<td>17</td>
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<tr>
<td></td>
<td>128.9</td>
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</tr>
<tr>
<td>Benzo[a]anthracene</td>
<td>0.03</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td>0.02</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>0.021</td>
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</tr>
<tr>
<td>Benzo[a]pyrene</td>
<td>0.025</td>
<td>17</td>
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<tr>
<td></td>
<td>0.02</td>
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<tr>
<td></td>
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<td>Benzo[b]fluoranthene</td>
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<td>0.02</td>
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<tr>
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<td>0.021</td>
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<tr>
<td>Benzo[g,h,i]perylene</td>
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<tr>
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<tr>
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<td>0.0201</td>
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<td>Beryllium</td>
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<td>0.2</td>
<td>17</td>
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<tr>
<td></td>
<td>0.35</td>
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<tr>
<td>beta-BHC</td>
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<tr>
<td></td>
<td>0.00092</td>
<td>3</td>
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<td>0.00107</td>
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<td>Bis(2-ethylhexyl) phthalate</td>
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<tr>
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<td>0.02</td>
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<td></td>
<td>0.022</td>
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</tr>
<tr>
<td>Copper</td>
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<td>4.4</td>
<td>17</td>
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<td>delta-BHC</td>
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<td>17</td>
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<tr>
<td></td>
<td>0.00092</td>
<td>5</td>
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<tr>
<td></td>
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<td>Constituent of Concern</td>
<td>High/Low/Mean (ppm)</td>
<td>Obs./Det.</td>
</tr>
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<td>-----------------------------------------------</td>
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<tr>
<td>Diesel Range Organics [C10-C28]</td>
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<td>17 17</td>
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<tr>
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<td></td>
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<tr>
<td></td>
<td>0.0021</td>
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<tr>
<td>Endosulfan sulfate</td>
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<td></td>
<td>0.0018</td>
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<td></td>
<td>0.0024</td>
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<td>Fluoranthene</td>
<td>0.099</td>
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<td>0.00096</td>
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<tr>
<td>gamma-Chlordane</td>
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<td>Gasoline Range Organics (GRO)-C6-C10</td>
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<td>Heptachlor</td>
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<td>0.00095</td>
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<tr>
<td>Lead</td>
<td>11</td>
<td>17 17</td>
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<td>Motor Oil Range Organics [C28-C40]</td>
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<td>Nickel</td>
<td>7.2</td>
<td>17 17</td>
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### Table 11. Sediment Results for the Upper Lake Reach

<table>
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<tr>
<th>Constituent Of Concern</th>
<th>High/Low/Mean (ppm)</th>
<th>Obs./Det.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4'-DDT</td>
<td>0.0066 0.0018 0.0028</td>
<td>5 1</td>
</tr>
<tr>
<td>Ammonia</td>
<td>42 25 29.6</td>
<td>5 5</td>
</tr>
<tr>
<td>Arsenic</td>
<td>2.8 2.3 2.54</td>
<td>5 5</td>
</tr>
<tr>
<td>Barium</td>
<td>130 81 100.2</td>
<td>5 5</td>
</tr>
<tr>
<td>Beryllium</td>
<td>0.64 0.4 0.526</td>
<td>5 5</td>
</tr>
</tbody>
</table>

Source: G.E.C., Inc.

**TEL** - Threshold Effect Level; **ERL** - Effect Range Low; **PEL** - Probable Effects Level; **ERM** - Effects Range Median; **N/A** - Not Applicable; **Obs.** - Number of Observations; **Det.** - Number of Detections
<table>
<thead>
<tr>
<th>Constituent Of Concern</th>
<th>High/Low/Mean (ppm)</th>
<th>Obs./Det.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chromium</td>
<td>8.6 6.7 8.02</td>
<td>5 5</td>
</tr>
<tr>
<td>Copper</td>
<td>7 6.4 6.7</td>
<td>5 5</td>
</tr>
<tr>
<td>Diesel (C10-C28)</td>
<td>43 24 33</td>
<td>5 5</td>
</tr>
<tr>
<td>Endosulfan II</td>
<td>0.0046 0.0018 0.0024</td>
<td>5 1</td>
</tr>
<tr>
<td>Hexavalent chromium</td>
<td>0.2 0.099 0.1718</td>
<td>5 1</td>
</tr>
<tr>
<td>Lead</td>
<td>8.8 8 8.34</td>
<td>5 5</td>
</tr>
<tr>
<td>Mercury</td>
<td>0.066 0.017 0.0334</td>
<td>5 4</td>
</tr>
<tr>
<td>Nickel</td>
<td>8.7 7.6 8.18</td>
<td>5 5</td>
</tr>
<tr>
<td>Selenium</td>
<td>0.51 0.42 0.472</td>
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</tr>
<tr>
<td>Zinc</td>
<td>27 25 26.2</td>
<td>5 5</td>
</tr>
</tbody>
</table>

TEL - Threshold Effect Level; ERL - Effect Range Low; PEL - Probable Effects Level; ERM - Effects Range Median; N/A - Not Applicable; Obs. - Number of Observations; Det. - Number of Detections

Source: G.E.C., Inc.

Table 12. Sediment Results for the Lower Lake Reach

<table>
<thead>
<tr>
<th>Constituent Of Concern</th>
<th>High/Low/Mean (ppm)</th>
<th>Obs./Det.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4’-DDT</td>
<td>0.0025 0.0018 0.0021</td>
<td>7 3</td>
</tr>
<tr>
<td>Ammonia</td>
<td>52 15 27</td>
<td>7 7</td>
</tr>
<tr>
<td>Constituent Of Concern</td>
<td>High/Low/Mean (ppm)</td>
<td>Obs./Det.</td>
</tr>
<tr>
<td>------------------------</td>
<td>----------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Antimony</td>
<td>0.23 0.14 0.175</td>
<td>7 1</td>
</tr>
<tr>
<td>Arsenic</td>
<td>3.1 2.8 2.88</td>
<td>7 7</td>
</tr>
<tr>
<td>Barium</td>
<td>160 94 117.7</td>
<td>7 7</td>
</tr>
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<td>Beryllium</td>
<td>0.59 0.43 0.497</td>
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</tr>
<tr>
<td>Chromium</td>
<td>9.5 7.6 8.7</td>
<td>7 7</td>
</tr>
<tr>
<td>Copper</td>
<td>7.4 5.5 6.6</td>
<td>7 7</td>
</tr>
<tr>
<td>Diesel (C10-C28)</td>
<td>30 13 21.7</td>
<td>7 7</td>
</tr>
<tr>
<td>Endosulfan II</td>
<td>0.0033 0.0019 0.0024</td>
<td>7 4</td>
</tr>
<tr>
<td>Fluoranthene</td>
<td>0.03 0.02 0.021</td>
<td>7 1</td>
</tr>
<tr>
<td>Lead</td>
<td>9.2 6.9 8.27</td>
<td>7 7</td>
</tr>
<tr>
<td>Mercury</td>
<td>0.071 0.027 0.053</td>
<td>7 7</td>
</tr>
<tr>
<td>Nickel</td>
<td>9.4 7.9 9.01</td>
<td>7 7</td>
</tr>
<tr>
<td>Pyrene</td>
<td>0.022 0.02 0.02</td>
<td>7 1</td>
</tr>
<tr>
<td>Selenium</td>
<td>0.57 0.41 0.48</td>
<td>7 4</td>
</tr>
<tr>
<td>Tetrachloroethylene</td>
<td>0.0032 0.0019 0.0021</td>
<td>7 1</td>
</tr>
<tr>
<td>Zinc</td>
<td>29 23 27</td>
<td>7 7</td>
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</table>
### Table 13. Sediment Results for SNWR

<table>
<thead>
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<th>High/Low/Mean (ppm)</th>
<th>Obs./Det.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TEL - Threshold Effect Level</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ERL - Effect Range Low</strong></td>
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<tr>
<td><strong>PEL - Probable Effects Level</strong></td>
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<tr>
<td><strong>ERM - Effects Range Median</strong></td>
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<td><strong>N/A - Not Applicable</strong></td>
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<td></td>
</tr>
<tr>
<td><strong>Obs. - Number of Observations</strong></td>
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<td></td>
</tr>
<tr>
<td><strong>Det. - Number of Detections</strong></td>
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</tr>
<tr>
<td><strong>Source:</strong> G.E.C., Inc.</td>
<td></td>
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<tr>
<td><strong>4,4’-DDT</strong></td>
<td>0.002</td>
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BRL - Below Reporting Limit; N/A - Not Applicable; Obs. - Number of Observations; Det. - Number of Detections

Source: G.E.C., Inc.

Table 14. Sediment Results for Calcasieu Lake
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<th>Constituent of Concern</th>
<th>High/Low/Mean (ppm)</th>
<th>Obs./Det.</th>
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Source: G.E.C., Inc.