<table>
<thead>
<tr>
<th>OGC Case Number</th>
<th>Planning Unit</th>
<th>Water Segment Name</th>
<th>Waterbody Type</th>
<th>Waterbody Class</th>
<th>Parameters Assessed Using the Impacted Surface Waters Rule (H)</th>
<th>Dissolved Oxygen/Biological Oxygen Demand (BOD)</th>
<th>DO (Nutrients)</th>
<th>Concentration of Threshold</th>
<th>Current EPA Integrated Report Category</th>
<th>Current EPA Integrated Report Category</th>
<th>Current Integrated Category</th>
<th>Priority for TMDL Development</th>
<th>Verified Period Assessment Date</th>
<th>Comments</th>
</tr>
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<tbody>
<tr>
<td>10-3235</td>
<td>Lake Parcsellose</td>
<td>Lake Chokoloskee</td>
<td>Lake</td>
<td>3F</td>
<td>Mercury (in fish tissue)</td>
<td></td>
<td>Escalate High Threshold (&gt;0.3 ppm)</td>
<td>3c</td>
<td>S</td>
<td>Impaired</td>
<td>High*</td>
<td></td>
<td></td>
<td>Verified for impairment based on DOH fish consumption advisory data from 2003 for 12 Bluegill with an average mercury concentration of 0.37 ppm.</td>
</tr>
<tr>
<td>10-3236</td>
<td>Lake Parcsellose</td>
<td>Okeel River</td>
<td>Stream</td>
<td>3F</td>
<td>Nutrients (Chlorophyll-a)</td>
<td>TN = 0.583 (n=115)</td>
<td>≥ 20 µg/L</td>
<td>≤ 20 µg/L</td>
<td>S</td>
<td>Impaired Medium</td>
<td></td>
<td></td>
<td>2003 (17 µg/L)</td>
<td>2004 (14 µg/L)</td>
</tr>
<tr>
<td>10-3227</td>
<td>Lake Parcsellose</td>
<td>Canal 48A Spring Group</td>
<td>Spring</td>
<td>3F</td>
<td>Nutrients (Chlorophyll-a)</td>
<td>TN = 1.12 (n=17)</td>
<td>≤ 11 µg/L</td>
<td>≤ 20 µg/L</td>
<td>S</td>
<td>Impaired Medium</td>
<td></td>
<td></td>
<td>2003 (8.5 µg/L)</td>
<td>2004 (6.5 µg/L)</td>
</tr>
<tr>
<td>10-3228</td>
<td>Lower Withlacoochee River</td>
<td>Cross Florida Barge Canal</td>
<td>Exuary</td>
<td>3M</td>
<td>Mercury (in fish tissue)</td>
<td>Escalate High Threshold (&gt;0.3 ppm)</td>
<td>3c</td>
<td>S</td>
<td>Impaired</td>
<td>High*</td>
<td></td>
<td></td>
<td>Verified for impairment based on DOH fish consumption advisory data from 2003 for 12 Bluegill with an average mercury concentration of 0.37 ppm.</td>
<td>This spring has been verified as impaired for nutrients based on “other information” that indicated an imbalance in flora or fauna. It is included in a springs report “Florida Springs Initiative Monitoring Network Report 2006” that documents nutrient enrichment is apparent due to altered algae dominated through photography as well as bioassessment methods. Nitrate-nitrite levels range from 0.56 - 1.4 mg/L during the verified period and the likely cause of the impairment; however, in accordance with Rule 62-303.710(1), F.A.C., the limiting nutrients are nitrogen and phosphorus based on a median TN/TP ratio of 23 (in 1017).</td>
</tr>
<tr>
<td>10-3229</td>
<td>Lower Withlacoochee River</td>
<td>Cross Florida Barge Canal</td>
<td>Exuary</td>
<td>3M</td>
<td>Nutrients (Chlorophyll-a)</td>
<td>TN = 0.74 (n=104)</td>
<td>≤ 11 µg/L</td>
<td>≤ 20 µg/L</td>
<td>S</td>
<td>Impaired Medium</td>
<td></td>
<td></td>
<td>2003 (4 µg/L)</td>
<td>2004 (4 µg/L)</td>
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<tr>
<td>10-3320</td>
<td>Lower Withlacoochee River</td>
<td>Lake Rousseau</td>
<td>Lake</td>
<td>3F</td>
<td>Mercury (in fish tissue)</td>
<td>Escalate High Threshold (&gt;0.3 ppm)</td>
<td>3c</td>
<td>S</td>
<td>Impaired</td>
<td>High*</td>
<td></td>
<td></td>
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<tr>
<td>10-3321</td>
<td>Lower Withlacoochee River</td>
<td>Lake Rousseau Drain</td>
<td>Stream</td>
<td>3F</td>
<td>Mercury (in fish tissue)</td>
<td>Escalate High Threshold (&gt;0.3 ppm)</td>
<td>3c</td>
<td>S</td>
<td>Impaired</td>
<td>High*</td>
<td></td>
<td></td>
<td>Verified for impairment based on DOH fish consumption advisory data from 2003 for 12 Bluegill with an average mercury concentration of 0.37 ppm.</td>
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</tr>
<tr>
<td>10-3322</td>
<td>Lower Withlacoochee River</td>
<td>Withlacoochee River</td>
<td>Stream</td>
<td>3F</td>
<td>Mercury (in fish tissue)</td>
<td>Escalate High Threshold (&gt;0.3 ppm)</td>
<td>3c</td>
<td>S</td>
<td>Impaired</td>
<td>High*</td>
<td></td>
<td></td>
<td>Verified for impairment based on DOH fish consumption advisory data from 2003 for 12 Bluegill with an average mercury concentration of 0.37 ppm.</td>
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<tr>
<td>10-3323</td>
<td>Lower Withlacoochee River</td>
<td>Withlacoochee River</td>
<td>Stream</td>
<td>3F</td>
<td>Mercury (in fish tissue)</td>
<td>Escalate High Threshold (&gt;0.3 ppm)</td>
<td>3c</td>
<td>S</td>
<td>Impaired</td>
<td>High*</td>
<td></td>
<td></td>
<td>Verified for impairment based on DOH fish consumption advisory data from 2003 for 12 Bluegill with an average mercury concentration of 0.37 ppm.</td>
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</tr>
<tr>
<td>10-3324</td>
<td>Lower Withlacoochee River</td>
<td>Wilson Head Spring</td>
<td>Spring</td>
<td>3F</td>
<td>Nutrients (Chlorophyll-a)</td>
<td>TN = 0.66 (n=17)</td>
<td>≤ 20 µg/L</td>
<td>≤ 20 µg/L</td>
<td>S</td>
<td>Impaired Medium</td>
<td></td>
<td></td>
<td>2003 (20 µg/L)</td>
<td>2004 (20 µg/L)</td>
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<tr>
<td>DG Case Number</td>
<td>Planning Unit</td>
<td>WEID</td>
<td>Water Segment Name</td>
<td>Waterbody Class</td>
<td>Waterbody Type</td>
<td>Current Integrated Category</td>
<td>Assessment Period</td>
<td>Current Assessment Status</td>
<td>Priority for TMDL Development</td>
<td>Verified Period Assessment Data</td>
<td>Comments</td>
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<tr>
<td>10-3236</td>
<td>Lower Withlacoochee</td>
<td>1333A</td>
<td>Rainbow Canal</td>
<td>Stream</td>
<td>3F</td>
<td>Mercury (in fish tissue)</td>
<td></td>
<td>3c</td>
<td>5</td>
<td>5</td>
<td>Impaired</td>
<td>Hg^2</td>
<td>Assessment based on ADF fish consumption advisory data from 2003 for 12 Bluegill with an average mercury concentration of 0.37 ppm.</td>
<td></td>
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<tr>
<td>10-3237</td>
<td>Lower Withlacoochee</td>
<td>1333A</td>
<td>Gun Spring (Alligator Spring)</td>
<td>Spring</td>
<td>3F</td>
<td>Nutrients (Algal Mats)</td>
<td></td>
<td>Balanced natural population of flora</td>
<td></td>
<td>5</td>
<td>5</td>
<td>Impaired</td>
<td>Medium</td>
<td>NA</td>
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<tr>
<td>10-3238</td>
<td>Lower Withlacoochee</td>
<td>1337</td>
<td>Lakea-Hathar Canal</td>
<td>Stream</td>
<td>3F</td>
<td>Nutrients (Chlorophyll-a)</td>
<td></td>
<td>Balanced natural population of flora</td>
<td></td>
<td>5</td>
<td>5</td>
<td>Impaired</td>
<td>Medium</td>
<td>NA</td>
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<tr>
<td>10-3239</td>
<td>Rainbow River</td>
<td>1330A</td>
<td>Rainbow Springs Group Run</td>
<td>Stream</td>
<td>3F</td>
<td>Nutrients (Algal Mats)</td>
<td></td>
<td>Balanced natural population of flora</td>
<td></td>
<td>5</td>
<td>5</td>
<td>Impaired</td>
<td>Medium</td>
<td>NA</td>
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<tr>
<td>10-3240</td>
<td>Rainbow River</td>
<td>1330B</td>
<td>Rainbow Springs Group Run</td>
<td>Stream</td>
<td>3F</td>
<td>Nutrients (Algal Mats)</td>
<td></td>
<td>Balanced natural population of flora</td>
<td></td>
<td>5</td>
<td>5</td>
<td>Impaired</td>
<td>Medium</td>
<td>NA</td>
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<tr>
<td>10-3241</td>
<td>Trout Appaloosa</td>
<td>1340A</td>
<td>Davis Lake</td>
<td>Lakea</td>
<td>3F</td>
<td>Nutrients (TSI)</td>
<td></td>
<td>TSI &lt;= 80, Color &lt;= 45</td>
<td>3b</td>
<td>5</td>
<td>5</td>
<td>Impaired</td>
<td>Medium</td>
<td>2009 (67; Color: 168 FCU)</td>
</tr>
<tr>
<td>10-3242</td>
<td>Trout Appaloosa</td>
<td>1340E</td>
<td>Little Lake</td>
<td>Lakea</td>
<td>3F</td>
<td>Nutrients (TSI)</td>
<td></td>
<td>TSI &lt;= 80, Color &lt;= 45</td>
<td>3b</td>
<td>5</td>
<td>5</td>
<td>Impaired</td>
<td>Medium</td>
<td>2007 (33; Color: 31 FCU)</td>
</tr>
<tr>
<td>10-3243</td>
<td>Trout Appaloosa</td>
<td>1340L</td>
<td>Cobb Lake</td>
<td>Lakea</td>
<td>3F</td>
<td>Nutrients (TSI)</td>
<td></td>
<td>TSI &lt;= 80, Color &lt;= 45</td>
<td>3b</td>
<td>5</td>
<td>5</td>
<td>Impaired</td>
<td>Medium</td>
<td>2009 (32; Color: 18 FCU)</td>
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</tbody>
</table>
Withlacoochee River Group 4 Basin - Southwest District - Cycle 2 FINAL Verified List
Hydrologic Unit: Withlacoochee River

### DGC Case Number/Planning Unit/Weibull

<table>
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<tr>
<th>Name</th>
<th>Description</th>
<th>Type</th>
<th>Parameters Assessed Using</th>
<th>Water Quality Criteria</th>
<th>Concentration of Criterion or Threshold Met</th>
<th>Previous EPA Integrated Report Category</th>
<th>Current EPA Integrated Report Category</th>
<th>Priority for TMDL Development</th>
<th>Verified Period Assessment Date</th>
<th>Comments</th>
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</thead>
</table>
| 10-3244 | Upper Withlacoochee | Withlacoochee River | Stream | 3F | Mercury (in fish tissue) | Exceeds MRL (Threshold = 0.3 ppm) | 3c | 5 | 5 | Impaired High | Assessment based on DOH 42 Fish Tissue Studies
| 10-3245 | Upper Withlacoochee | Withlacoochee River | Stream | 3F | Mercury (in fish tissue) | Exceeds MRL (Threshold = 0.3 ppm) | 3c | 5 | 5 | Impaired High | Assessment based on DOH 42 Fish Tissue Studies
| 10-3246 | Upper Withlacoochee | Withlacoochee River | Stream | 3F | Mercury (in fish tissue) | Exceeds MRL (Threshold = 0.3 ppm) | 3c | 5 | 5 | Impaired High | Assessment based on DOH 42 Fish Tissue Studies
| 10-3247 | Upper Withlacoochee | Big Gant Canal | Stream | 3F | Nutrients (Chlorophyll-a) | TN = 0.027 (n=7), TP = 0.046 (n=10), BOD = 1.8 ppm | ≤ 20 µg/L | 2 | 5 | Impaired Medium | 2004 (13 µg/L), 2005 (6.2 µg/L), 2006 (5.5 µg/L), 2007 (2007), 2009 (16 µg/L), 2010 (11 µg/L)
| 10-3248 | Upper Withlacoochee | Pony Creek | Stream | 3F | Dissolved Oxygen (Nutrients) | Total Phosphorus | TN = 1.88 (n=7), TP = 0.37 (n=9), BOD = No Data | ≤ 5.0 mg/L | 4c | 5 | Impaired Medium | 36/79
| 10-3249 | Upper Withlacoochee | Lake DeSoto | Lake | 3F | Nutrients (TSI) | TN = 1.65 (n=10), TP = 0.32 (n=12), BOD = No Data | TSI 43 40: Color 40 | 3b | 5 | 5 | Impaired Medium | 2007 (14: Color 30 POL)
| 10-3250 | Upper Withlacoochee | Lake Tennessee | Lake | 3F | Nutrients (TSI) | TN = 1.016 (n=9), TP = 0.025 (n=12), BOD = No Data | TSI 43 40: Color 40 | 3b | 5 | 5 | Impaired Medium | 2007 (47: Color 6 PCU)
| 10-3251 | Upper Withlacoochee | Lake Julesor | Lake | 3F | Nutrients (TSI) | TN = 1.168 (n=30), TP = 0.030 (n=40), BOD = No Data | TSI 43 40: Color 40 | 3a | 5 | 5 | Impaired Medium | 2007 (53: Color 11 POL)

### Florida's Waterbody Classifications are defined as:

1. Potable water supplies
2. Shellfish propagation or harvesting
3. Recreation, propagation, and maintenance of a healthy, well-balanced population of fish and wildlife in fresh water
4. Agricultural water supplies
5. Navigation, utility, and industrial use

* n is equal to the number of samples. When samples are collected at the same location less than 4 days apart, the median of those results represents a single sample for the purpose of determining n.

1. The Cycle 1 assessment was done in 2003 and included data from that Verified Period (January 1, 1998 through June 30, 2005).
2. The Cycle 2 assessment is the current assessment and includes data from the Verified Period (January 1, 2003 through June 30, 2010).
3. Fish tissue studies performed in 2003 to 2006, with data from 2003 for 12 Bluegill with an average mercury concentration of 0.37 ppm.

### Waterbody Classifications:

- **5 - Water quality standards are not attained and a TMDL is required.**
- **4d - The waterbody does not meet applicable criteria, but no pollutant can be identified thus a TMDL will not be developed at this time.**
- **4c - Impaired for one or more criteria or designated uses but does not require TMDL development because impairment is not caused by a pollutant.**
- **4b - Impaired for one or more designated uses but does not require TMDL development because the water will attain water quality standards due to existing or proposed measures as part of an approved Reasonable Assurance.**
- **4a - Impaired for one or more designated uses but does not require TMDL development because a TMDL has already been completed.**
- **3c - Enough data and information are present to determine that one or more designated uses may not be attained according to the Planning List methodology.**
- **3b - Some data and information are present but not enough to determine if any designated uses are attained.**
- **2 - Attains some designated uses and insufficient or no information or data are present to determine if remaining uses are attained.**
- **1 - Attains all designated uses.**

### Runoff Type:

- **1 Florida's waterbody classifications are defined as:**
- **1 - Potable water supplies**
- **2 - Shellfish propagation or harvesting**
- **3F - Recreation, propagation, and maintenance of a healthy, well-balanced population of fish and wildlife in fresh water**
- **3M - Recreation, propagation, and maintenance of a healthy, well-balanced population of fish and wildlife in marine water**
- **4 - Agricultural water supplies**
- **5 - Navigation, utility, and industrial use**

### Assessed Using:

- **DO** - Nutrient / Biology - TN, TP, BOD, Median, Values (mg/L)
- **Chlorophyll-a**
- **Nutrients (TSI)**
- **Phytoplankton**
- **Dissolved Oxygen**
- **Mercury (in fish tissue)**
- **Dissolved Oxygen (Nutrients)**
- **Total Phosphorus**
- **Chlorophyll-a**
- **BOD Median**
- **BOD**
- **Nutrients (Chlorophyll-a)**
- **Nutrients (TSI)**
- **Fish Tissue Studies**
- **Fish Tissue Studies**

### Assessment History:

- **Verified for impairment based on DOH fish consumption advisory data from 2003 for 12 Bluegill with an average mercury concentration of 0.37 ppm.**
- **Verified for impairment based on DOH fish consumption advisory data from 2003 for 12 Bluegill with an average mercury concentration of 0.37 ppm.**
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### Florida Department of Environmental Protection
November 2, 2010
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Withlacoochee River Group 4 Basin - Southwest District - Cycle 2 FINAL Verified List
Hydrologic Unit: Withlacoochee River

<table>
<thead>
<tr>
<th>OGC Case Number</th>
<th>Planning Unit</th>
<th>WBID</th>
<th>Water Segment Name</th>
<th>Waterbody Type</th>
<th>Waterbody Class</th>
<th>1993 303(d) Parameter Of Concern</th>
<th>Dissolved Oxygen/ Biology - TN, TP, BOD, Median Values (mg/L)</th>
<th>Concentration of Criterion or Threshold Not Met</th>
<th>Previous EPA Integrated Report Category † - Cycle 1 Assessment</th>
<th>Current EPA Integrated Report Category † - Cycle 2 Assessment</th>
<th>Current Integrated Category † - Final Assessment</th>
<th>Current Assessment Status</th>
<th>Priority for TMDL Development †</th>
<th>Verified Period Assessment Data</th>
<th>Comments</th>
</tr>
</thead>
</table>

It is our intent that listings with a "High" priority be addressed within the next 5 years, listings with a "Medium" priority be addressed within 5-10 years as resources allow, and listings with a "Low" priority be addressed within the next 10 years.

8 VP - Verified Period (January 1, 2003 through June 30, 2010); Data include chlorophyll-a annual averages, annual average TSI and color values, bioassessment results and # of exceedances/# of samples.

‡ FDEP Central laboratory determined that a threshold of 3 µg/L represents the lower end of reasonable detection limits for reporting known chlorophyll-a values.

Since the IWR permits annual mean chlorophyll-a value increases by no more than 30% over historical values, FDEP proposes to use 4.5 µg/L as a threshold for current conditions that must be exceeded in order to assess based on historic evaluations.

N/A = Not Applicable, does not apply, or was not assessed in the previous cycle (i.e. it's a new WBID, waterbody type change, etc.).

* Beach advisories are based on FL Dept of Health Enterococcus (≥103 CFU/100mL) or fecal coliform (≥105 CFU/100mL) criteria.

† Beach advisory data is based on "2010 Beach Advisories" created 2001 by Barbara Donner (FDEP Watershed Assessment Section). Fish advisory data is based on "2008 Fish Advisories" created 2001 and updated 2009 by Barbara Donner of (FDEP Watershed Assessment Section). The Group 4 Withlacoochee River FINAL Verified list is based on IWR Run 41x.