

# Summary of Listing Decisions for the 2024 305(b)/303(d) List of Waters

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## **Summary of Listing Decisions**

The Georgia Environmental Protection Division (EPD) used its 2024 Listing Assessment Methodology to compare environmental data against water quality criteria to determine if waters were supporting their designated uses. Based on this assessment, waters were assigned to one of five Categories. A general summary of the 5-part Categorization is as follows. Waters are assigned to Category 1 if they are supporting their designated uses. Waters are assigned to Category 4 or 5 if they are not supporting their designated uses (aka impaired). Waters are assigned to Category 2 or 3 if there is insufficient data to determine if designated uses are being met or not. A more detailed explanation of the 5-part Categorization system is described in the Listing Assessment Methodology. This document provides more detail to explain why certain listing decisions were made including (1) how the “natural conditions” provisions in our water quality standards are used when making listing decisions and (2) why other waters were placed or remain in Category 2 or Category 3.

## **Assessment of Waters Based on “Natural Water Quality”**

Chapter 391-3-6-.03(7) of the Rules and Regulations for Water Quality Control recognizes that some waters of the State “naturally” will not meet the instream criteria and this situation does not constitute a violation of water quality standards.

Georgia has many blackwater streams in the southern and coastal areas of the state. These blackwater streams are low gradient and originate in, or pass through forests, swamps, or wetlands where leaf litter and other plant vegetation can drop into and accumulate in the waterbodies. Through natural decay processes, the leaf litter and vegetation releases tannins and other organic compounds that lower the pH of the waterbody and are the source of the stained coloration. This natural process leads to waterbodies whose pH is regularly lower than the State’s pH criteria. Until more definitive criteria for defining blackwater streams are developed, EPD will use dissolved organic carbon (DOC) or total organic carbon (TOC) concentrations along with field observations of water color to assess a stream as being blackwater. The water color should be described as tannic and the DOC/TOC is to be 10 mg/L or greater. If a water has been identified as a blackwater stream, then it was not listed as impaired for pH as long as there are not point source or land use issues that may be contributing to the low pH measured in the stream.

EPD has assessed a number of waters as having naturally low dissolved oxygen (DO). EPD currently has 2 methods for determining natural DO concentrations 1) modeling and 2) calculation of DO percent saturation in estuarine waters. Part VII.D.1.a.2 of EPD’s Listing Assessment Methodology explains how EPD assesses waters where a “natural” DO has been established. This Methodology states: “In the case where the DO criteria are not met more than 10% of the time, but where a “natural” dissolved oxygen concentration has been established,

then the dissolved oxygen data are compared against the established “natural” dissolved oxygen concentration. If any of the data points are less than the “natural” dissolved oxygen concentration, then the waterbody is determined **not** to be supporting its designated use. If none of the DO data are less than the “natural” DO, then the waterbody is determined to be “supporting” its use (as far as DO is concerned).”

In 2001, DO TMDLs were developed for waters in the Ochlockonee, Satilla, St. Marys and Suwannee River Basins. Separate TMDL documents were written for each River Basin that contain the TMDLs for each stream segment. These TMDLs are still in effect. In 2006, Georgia EPD developed four documents that were reevaluations of these TMDLs. Calibrated models developed for each of the streams covered by the 2001 DO TMDLs were used to evaluate the measured DO as compared to the “natural” DO modeled. These models showed “natural” DO concentrations in some streams were less than the numeric DO criteria found in Chapter 391-3-6-.03(6) of the Rules and Regulations for water quality control. Sixteen (16) streams covered by the 2001 DO TMDLs had measured DO that was higher than the modeled “natural” DO in the stream.

DOSAG models are calibrated models that can be used to determine the “natural” DO under critical high temperature, low flow (7Q10) conditions. As part of the State Water Plan, GA EPD developed water quality DOSAG models for waters with wastewater treatment plants throughout the entire state that cover inland rivers and streams. Six streams were assessed as having natural low DO based on the use of these DOSAG models.

For estuarine waters, the DO levels vary with temperature and salinity. As temperature and salinity increase, the amount of oxygen the water can hold decreases. For marine waters with DO concentrations less than 4 mg/L, EPD used the water temperature and conductivity (measured when DO readings were taken) to calculate the DO concentration (mg/L) at 100% saturation. The “natural DO” was calculated as DO concentration corresponding to 38%-42% saturation. This DO saturation range is within the minimum measured DO saturations found in Georgia coastal waters including the Ogeechee River, Little Ogeechee River, Kilkenny Creek, Ossabaw Sound, Laurel View River/Jerico River /Jones Creek, Turtle River, Satilla River, Little Satilla River, and Cumberland Sound and the minimum DO percent saturation used by Florida to determine their DO criteria. Thirty-four (34) estuarine waters were assessed as having natural low DO.

The tables at the end of this document list the waters where EPD determined that low DO (Table 1) or low pH (Table 2) are due to natural conditions. These waters were not listed as impaired for DO or pH.

## **Waters and Parameters in Category 3 (Assessment Pending)**

### **Creation of Category 3N**

EPD created a new State Category, 3N, which is a subcategory of EPA's Category 3 waters. The "N" in 3N stands for "Natural". This category is used when a water does not meet water quality criteria, but where it is believed that the violations of the water quality criteria may be a result of natural conditions. Natural conditions must be established before it can be determined whether a given parameter is meeting its criteria based on natural conditions or if the parameter is a cause of impairment. Currently, Category 3N is only used for the parameters DO and pH.

A water is placed in Category 3 or 3N (Assessment Pending) when there is insufficient data or information to make an assessment on whether the water is meeting its designated use(s). The 2024 305(b)/303(d) List of Waters has 242 waters in Category 3 or 3N. There are an additional 203 waters assessed as "Not Supporting" for one or more parameters where the assessment of other parameter(s) is still pending. For example, a water may have been assessed as "Not Supporting" for *E. coli* bacteria, but data are lacking to make an assessment for pH. Details regarding why a water or a parameter has been placed in Category 3 can be found in the "Notes" column of the 2024 305(b)/303(d) List of Waters. The most common reasons for why waters or parameters have been placed in Category 3 are provided below.

### **Waters in Category 3N for DO**

EPD placed a number of waters in Category 3N for dissolved oxygen (DO) because we need to collect the necessary data and information to determine if the low DO is due to natural conditions. The vast majority these waters are located below the fall line within the Coastal Plain (e.g. Southeastern Plain and Southern Coastal Plain ecoregions) where streams tend to be low gradient resulting in low stream flows and velocities, which leads to lower reaeration. Many of these streams are blackwater surrounded by wetlands and swamps with high organic matter and SOD levels. Thus, the DO in these waters may be naturally below the numeric criteria.

Other reasons a stream may not meet DO criteria due to natural conditions is if the stream is close to the headwaters or has a small watershed in general. These streams can have less water in them and have a tendency to dry up. Furthermore, groundwater contributions to these streams may be lowering the DO as groundwater can often have low DO concentrations. Other streams with low DO are located in forested wetlands or swamps. These waters may not meet the definition of blackwater streams in that the DOC/TOC concentrations may be less than 10 mg/L, but they share many characteristics of blackwater streams including low slopes and the fact that during high flows, water spills into the floodplain and the surrounding wetlands and swamps and organic matter from the surrounding land is transferred to the stream.

There are 89 waters that have been assessed as "Assessment Pending" where DO is in Category 3N while EPD works to determine the "natural DO" concentration for the water. There are an

additional 63 waters that have been assessed as “not supporting” for other parameters for which the assessment of DO is pending determination of the “natural DO.”

### **Waters in Category 3 for DO**

There are six waters in Category 3 for DO on the 2024 305(b)/303(d) list. These waters are in Category 3 due to the fact that there is not a sufficient quantity of DO data to make an assessment on whether DO is meeting criteria or not. Additional data need to be collected before an assessment is made.

### **Waters in Category 3N for pH**

In addition, EPD has determined that pH may be naturally low in waters with low alkalinity (< 20 mg/L as CaCO<sub>3</sub>). A review of data shows that most non-blackwater streams with a pH of less than 6.0 have alkalinity concentrations of 20 mg/L (as CaCO<sub>3</sub>) or less. Alkalinity is a measure of a water’s ability to neutralize acid. The lower a water’s alkalinity, the lower the buffering capacity, the higher the impact the addition of an acid will have on the pH. Pure water exposed to the atmosphere will have a pH in the 5’s due to the formation of carbonic acid when carbon dioxide dissolves into the water. Other natural acids that could impact the pH of a water with low alkalinity are leaf litter/pine needles or the impact of springs or groundwater (which can be acidic). There are also anthropogenic sources of acids that could enter the stream via spills or stormwater runoff. Waters with low pH (e.g. 10% of the values are < 6.0) are being placed in the new Category 3N if it has a conductivity greater than 100 µS/cm, but the alkalinity is less than 20 mg/L as CaCO<sub>3</sub>. There are two waters in Category 3N for pH on the 2024 305(b)/303(d) List of Waters.

### **Waters in Category 3 for pH**

There are 184 waters in Category 3 (Assessment Pending) on the 2024 305(b)/303(d) List of Waters for pH. The majority of these waters were put into Category 3 because EPD believes that our pH probes may have been providing inaccurately low values in waters where the conductivity is low (less than 100 µS/cm). Below is the rationale why we believe our pH meters may sometimes be providing falsely low values, and what we are doing to improve accuracy of pH measurements.

#### **Questions about Probe Accuracy and Steps Taken to Improve Accuracy**

Meters for measuring pH work by quantifying the difference in electrical potential between the solution you are measuring the pH of and reference solution contained within the probe. Measuring waters with low conductivity can be a challenge as the low electrical resistance of the sample solution can lead to pH drift and inaccurate measurements. The problem of accurately measuring pH in low conductivity waters increases when the water is flowing. EPD’s standard operating procedure for measuring pH in the field calls for us to measure the pH instream where the water is normally flowing. We have found that when a stream has low conductivity, if pH is measured in the stream (i.e. in flowing water) then the pH reading is often up to a half a Standard

Unit (SU) lower than if a sample of stream water is collected in a bucket and the pH is measured in the bucket (i.e. non-flowing water). This half SU difference is enough to move many of our pH readings that are below criteria to being within criteria.

Beginning in spring 2020, EPD implemented a new methodology for measuring pH to improve accuracy. If the in-situ pH was measured to be less than 6.0 SU and the water was not a blackwater stream where low pH is expected, then water was collected in a bucket and the pH of the water was measured in the bucket. This was done because when the pH of low conductivity water is measured, a high junction potential between the low conductivity stream water and the solution inside the pH meter can result in inaccurate measurements. Measuring the pH in a bucket where the water is not flowing decreases the problem with the junction potential. In addition, EPD began using different pH meters in 2022 that we hoped would be able to more accurately measure pH in low conductivity waters. However, EPD has determined these methods alone do not provide enough confidence in pH measurements in waters with low conductivity for us to use the data for listing a water as impaired for pH. Therefore, as described in the USGS document “Measurement of pH, Chapter 6.4 of Section A, National Field Manual for the Collection of Water-Quality Data, Book 9, Handbooks for Water-Resources Investigations”, EPD is going add salt to water samples to raise the conductivity before taking pH. Adding salt does not impact the pH of the sample, but it will allow us to get an accurate measurement. Waters with low conductivity that are not blackwaters and that have pH values below 6.0 in more than 10% of the samples will be placed in Category 3 assessment pending for pH until pH has been measured using salt to increase the conductivity of the sample.

### **Waters in Category 3 for Bio M**

Currently, Georgia’s Listing Assessment Methodology states that waters with macroinvertebrate data with a narrative rank of “fair” are put in Category 3. One reason this is the case is that EPD has been working to revise the multi-metric index (MMI) used to assess macroinvertebrate data. We believe that for the most part, waters assessed as “supporting” under the current index (narrative rank of “very good” or “good”) will still be assessed as “supporting” under the revised index. Likewise, we believe that waters assessed as “not supporting” under the current index (narrative rank of “poor” or “very poor”) will still be assessed as “not supporting” under the revised index. We are less certain how waters ranked “fair” under the current index will rank once new indices are established. EPD has been working diligently to revise the MMI used to assess the health of the macroinvertebrate community. This is a lengthy process as EPD has determined that additional data need to be collected from some areas of the State prior to MMI revision. Collection of additional data is ongoing. In addition, EPD is currently working on revising the taxa list and tolerance values that are also needed for the MMI revision to be completed. EPD plans to keep the waters with a narrative rank of “fair” in Category 3 until the new indices can be established. The 2024 305(b)/303(d) List of Waters has 50 waters in Category 3 based on sites that have a narrative rank of “fair” for macroinvertebrate sampling.

There are an additional 24 waters that have been assessed as “not supporting” for other parameters, but for which the assessment of macroinvertebrate data is pending.

### **Other Waters in Category 3**

There are various reasons why the remaining waters have been placed in Category 3. The most common reason is that while we had data that indicated that the water is “supporting” its use (such as fish tissue data, wastewater treatment plant effluent data, etc.), there is no instream water quality data available. Without having instream data, we decided to put the water in Category 3 instead of making the assessment that the waters were “supporting” their uses.

### **Waters in Category 2**

A water is placed in Category 2 if it has more than one designated use and if it is supporting at least one of its designated uses, but data is lacking to make an assessment of the other use(s). In 2020, EPD has begun to assign specific parameters to each of the designated uses when a water has multiple uses. The designated use “Fishing” protects aquatic life and people who are fishing or doing other types of secondary contact recreation. Parameters associated with the “Fishing” use include dissolved oxygen, pH, temperature, metals, Bio F, Bio M, bacteria, etc. Bacteria and chlorophyll *a* are used to assess the designated use of “Recreation.” Human Health Criteria, the drinking water criteria for arsenic, chlorophyll *a*, and bacteria are used to assess the “Drinking Water” use. The main reason EPD is assigning parameters to specific uses is that U.S. EPA has developed a website called “How’s My Waterway” that allows the public to interact with 305(b)/303(d) listing information along with other types of data (such as water quality data). There are always challenges in presenting data from all of the different states on one platform as each state assesses its waters differently and has different designated uses. If Georgia did not make this change to how we assess our different uses, then our 305(b)/303(d) data on How’s My Waterway would be misleading. For example, it would indicate that you should not swim in a water because there were excessive levels of PCBs in Fish Tissue. Excessive PCB in Fish Tissue is a reason to not eat fish caught in a water but is not a reason to avoid swimming in a water.

The 2024 305(b)/303(d) List of Waters has 35 waters in Category 2. Often the water is put in Category 2 because we only have data that relates to aquatic life uses. For example, we may only have Fish IBI data available for a stream. We can use this data to assess the designated use of “Fishing,” but this type of data is not used to assess designated uses of “Recreation” or “Drinking Water.” If the Fish IBI data indicated that the fish community is healthy (e.g., the site scored “Fair,” “Good,” or “Excellent”), then the Fishing use is assessed as “Supporting” its use, but the “Drinking Water” and “Recreation” uses cannot be assessed and the water is placed into Category 2 instead of Category 1.

One other important thing to be aware of is that if a water has multiple uses and one designated use is assessed as “Not Supporting,” then the water is assessed as impaired even if other use(s) are assessed as “Supporting” or “Assessment Pending.” Therefore, splitting parameters between



the different uses does not impact the overall assessment of the water and does not change any regulatory implication of a water being assessed as impaired.

**Table 1 - Waters Determined to Have Naturally Low DO**

Reach ID	Reach Name	Reach Location	Basin
GAR030701060520	Hampton River	Jones Creek to Mosquito Creek	Altamaha
GAR030701060522	Tributary to Village Creek	Headwaters to Village Creek	Altamaha
GAR030702030226	Village Creek	Blackbank River to bend in creek at Village Drive	Altamaha
GAR031300100705	Fishpond Drain	Wash Pond to Lake Seminole	Flint
GAR031200020302	Big Creek	Woodhaven Rd. East of Coolidge to Ochlockonee River	Ochlockonee
GAR031200020102	Little Creek	Ga. Hwy. 37 to Ochlockonee River near Moultrie	Ochlockonee
GAR031200020104	Ochlockonee River	Headwaters at Ga Hwy 112 near Sylvester to Bay Branch, East of Bridgeboro	Ochlockonee
GAR030602040802	Barn Creek	Headwaters to the Duplin River	Ogeechee
GAR030602040413	Cay Creek	U.S. Hwy 17 to North Newport River	Ogeechee
GAR030602040805	Duplin River	Headwaters to DoBoy Sound	Ogeechee
GAR030602040527	Lincoln Creek	Headwaters to Cubbage Creek	Ogeechee
GAR030602040719	Mud River	Old Teakettle Creek (aka Old Creek) to New Teakettle Creek (aka Little Teakettle Creek)	Ogeechee
GAR030602040410	North Newport River	Payne Creek to Carrs Neck Creek	Ogeechee
GAR030602040414	North Newport River	Cay Creek to Payne Creek	Ogeechee
GAR030602040316	Ogeechee River	Richmond Hill 4.7 miles downstream US Hwy 17 to Bear River/Florida Passage	Ogeechee
GAR030602040319	Ogeechee River	Canoochee River to U.S. 17	Ogeechee
GAR030602040320	Ogeechee River	U.S. 17 to Richmond Hill 4.7 miles downstream US Hwy 17	Ogeechee
GAR030602040415	Riceboro Creek	Tributary at Barrington Ferry Road to North Newport River	Ogeechee
GAR030602040212	Salt Creek	Bend one mile upstream US 17 to the Hardin Canal	Ogeechee
GAR030602040628	South Newport River	Upstream US Hwy. 17, South Newport	Ogeechee
GAR030602040629	South Newport River	US Highway 17 to South Hampton Creek	Ogeechee
GAR030702030237	Academy Creek	Downstream Brunswick Academy WPCP to the East River	Satilla

Reach ID	Reach Name	Reach Location	Basin
GAR030702020402	Boggy Creek	Dry Creek to Little Satilla Creek North of Screven	Satilla
GAR030702030308	Cobb Creek	Headwaters to Jointer Creek	Satilla
GAR030702030536	Crooked Creek	Sadlers Creek to Grover Creek	Satilla
GAR030702030537	Delaroché Creek	Headwaters to 0.4 miles upstream of the Cumberland River	Satilla
GAR030702030227	Dunbar Creek	0.5 mi d/s of Sea Island Rd to Frederica River	Satilla
GAR030702030202	Gibson Creek	Headwaters to the Turtle River (Brunswick)	Satilla
GAR030702030303	Honey Creek	Headwaters to the Little Satilla River	Satilla
GAR030702030313	Jointer Creek	Headwaters to Cobb Creek	Satilla
GAR030702030302	Little Satilla River	Fancy Bluff Creek to Maiden Creek	Satilla
GAR030702030311	Little Satilla River	Maiden Creek to island 2 miles upstream Jekyll Sound	Satilla
GAR030702030306	Maiden Creek	Headwaters to Little Satilla River	Satilla
GAR030702030203	Purvis Creek	Brunswick	Satilla
GAR030702010301	Red Bluff Creek	Little Red Bluff Creek to Satilla River East of Pearson	Satilla
GAR030702010703	Satilla River	Seventeen Mile River to US Hwy 84/Ga. Hwy. 38	Satilla
GAR030702030238	Terry and Dupree Creek	Dupree Creek and Terry Creek from Torras Causeway to 0.5 miles downstream the confluence of Terry and Dupree Creek.	Satilla
GAR030702030239	Terry Creek	0.5 miles downstream the confluence of Terry and Dupree Creek to the Back River	Satilla
GAR030702030212	Yellow Bluff Creek	Headwaters to approximately 1 mile downstream US Hwy 25	Satilla
GAR030702040602	Boone Creek	Tributary 0.7 miles upstream Roberts Road to St. Marys River	St. Marys
GAR030702040915	Burrells Creek	Dark Entry Creek to the St. Marys River	St. Marys
GAR030702040914	Casey Creek	Miller Branch to St. Marys River	St. Marys
GAR030702040701	Corn House Creek	Headwaters to the St. Marys River	St. Marys
GAR030702040913	Miller Branch	Casey Creek to the St. Marys River	St. Marys
GAR030702040901	St. Marys Trib. 5 (aka Cooner Branch)	Ray and Hannaford Lake to St. Marys River	St. Marys
GAR031102021202	Cow Creek	Headwaters to Alapaha River	Suwannee
GAR031102020101	Double Run Creek	Tributary 0.4 mile upstream SR 90 to Alapaha River near Rebecca	Suwannee
GAR031102020801	Fivemile Creek	Downstream Gaskins Pond to Big Creek near Nashville	Suwannee
GAR031102010103	Greasy Branch	U.S. Hwy. 84/SR 38 to Okeefenokee Swamp	Suwannee

Reach ID	Reach Name	Reach Location	Basin
GAR031102020309	Hat Creek	Unnamed tributary 100 feet upstream Robert Davis Rd to to SR S 1989 S.E. (E. Inaha Rd)	Suwannee
GAR031102010301	Suwannoochee Creek	Lees Bay to Suwannee River	Suwannee
GAR031102010302	Suwannoochee Creek	Bear Branch to Lees Bay	Suwannee
GAR031102010203	Tatum Creek (formerly Jones Creek)	Dry Branch to the Suwannee River	Suwannee
GAR031102020802	Tenmile Creek	Averys Millpond to Big Creek near Nashville	Suwannee
GAR031102040301	Warrior Creek	Rocky Creek to Ty Ty Creek near Norman Park	Suwannee
GAR031102030414	Withlacoochee River	Cat Creek to Bay Branch	Suwannee

**Table 2 - Waters Determined to Have Naturally Low pH**

Reach ID	Reach Name	Reach Location	Basin
GAR030701060503	Alex Creek	Mason Cowpen Branch to Altamaha River	Altamaha
GAR030701060311	Beards Creek	Headwaters to Blocker Creek	Altamaha
GAR030701060106	Cobb Creek	Buckthorn Creek to Oconee Creek	Altamaha
GAR030701060110	Cobb Creek	Oconee Creek to Open Creek	Altamaha
GAR030701060111	Cobb Creek	Open Creek to the Altamaha River	Altamaha
GAR030701060405	Doctors Creek	Tributary 2 miles upstream Old Macon Darien Rd SE to Fountain Branch (aka Jones Creek)	Altamaha
GAR030701070208	Flat Creek	Headwaters to Little Ohoopsee River	Altamaha
GAR030701060302	Goose Creek	Tributary 1.1 miles upstream Rd. S1922 (Walter Griffis Rd.) to Little Goose Creek	Altamaha
GAR030701070303	Jacks Creek	U.S. Hwy. 1 to Ohoopsee River	Altamaha

Reach ID	Reach Name	Reach Location	Basin
GAR030701060404	Jones Creek	Still Branch to Doctors Creek	Altamaha
GAR030701060109	Little Alligator Creek	Milligan Creek to the Altamaha River	Altamaha
GAR030701060408	Little Creek	Gum Branch to Honey Camp Branch	Altamaha
GAR030701060412	Little Penholoway Creek	Headwaters to Walker Creek	Altamaha
GAR030701070410	Little Reedy Creek	Tributary at Pendleton Springs Road to Pendleton Creek	Altamaha
GAR030701070205	Magruda Creek	Headwaters to Little Ohoopsee River	Altamaha
GAR030701060108	Milligan Creek	Tributary 0.9 miles downstream E. Main Street (Uvalda) to Little Alligator Creek	Altamaha
GAR030701060407	Milliken Bay	Headwaters to Little McMillen Creek	Altamaha
GAR030701070105	Neels Creek	Bear Creek to Ohoopsee River	Altamaha
GAR030701060103	Oconee Creek	Headwaters to Cobb Creek	Altamaha
GAR030701070501	Ohoopsee River	Hwy 292 to Hwy 147	Altamaha
GAR030701070502	Ohoopsee River	Ga. Hwy 147 to Confluence with Altamaha River	Altamaha
GAR030701070401	Pendleton Creek	Sand Hill Lake to Reedy Creek	Altamaha
GAR030701070402	Pendleton Creek	Wildwood Lake to Tiger Creek	Altamaha
GAR030701070407	Pendleton Creek	Reedy Creek to Swift Creek	Altamaha
GAR030701060403	Penholoway Creek	Little Creek to Altamaha River	Altamaha
GAR030701070207	Sardis Creek	Headwaters to Little Ohoopsee River	Altamaha
GAR030701060201	Tenmile Creek	Little Tenmile Creek to Altamaha River	Altamaha
GAR030701070506	Thomas Creek	Douglas Branch to the Ohoopsee River	Altamaha

Reach ID	Reach Name	Reach Location	Basin
GAR030701070403	Tiger Creek	Little Creek to Pendleton Creek	Altamaha
GAR030701060305	Watermelon Creek	Ditch Branch to the Altamaha River	Altamaha
GAR030701070306	Yam Grandy Creek	Tributary 1.1 miles upstream of County Road 175 (Bass Rd) to Crooked Creek	Altamaha
GAR031300060801	Abrams Creek	Little Abrams Creek to the Flint River	Flint
GAR031200020302	Big Creek	Woodhaven Rd. East of Coolidge to Ochlockonee River	Ochlockonee
GAR031200020102	Little Creek	Ga. Hwy. 37 to Ochlockonee River near Moultrie	Ochlockonee
GAR031200020303	Tributary to Big Creek	Headwaters to Big Creek	Ochlockonee
GAR031200020504	West Branch Barnetts Creek	Pond 1.2 miles upstream GA Hwy 93 to Big Branch	Ochlockonee
GAR030701040703	Alligator Creek	Headwaters to Horse Creek	Ocmulgee
GAR030701050206	Alligator Creek	Bay Creek to Lime Sink Creek	Ocmulgee
GAR030701050207	Alligator Creek	Lime Sink Creek to Whitewater Creek	Ocmulgee
GAR030701040812	Fishing Creek	Headwaters to the Ocmulgee River	Ocmulgee
GAR030701040702	Horse Creek (formerly Big Horse Creek)	Alligator Creek to Ocmulgee River	Ocmulgee
GAR030701040601	House Creek	Ball Creek to South Prong House Creek	Ocmulgee
GAR030701050405	Little Ocmulgee River	Wilcox Creek to Alligator Creek	Ocmulgee
GAR030701050406	Little Ocmulgee River	Little Ocmulgee State Park Lake to Wilcox Creek	Ocmulgee
GAR030701040813	Opposum Creek	Headwaters to the Ocmulgee River	Ocmulgee
GAR030701040815	Red Bluff Creek	Headwaters to the Ocmulgee River	Ocmulgee

Reach ID	Reach Name	Reach Location	Basin
GAR030701050305	Sugar Creek	Headwaters to Turnpike Creek	Ocmulgee
GAR030701040814	Tributary to Red Bluff Creek	Headwaters to Red Bluff Creek	Ocmulgee
GAR030701050303	Turnpike Creek	Hwy 280 to Sugar Creek	Ocmulgee
GAR030701021203	Mercer Creek	Tributary 270 feet upstream Norwood Stephens Road to Red Hill Creek	Oconee
GAR030701020411	Mikes Mill Creek	Headwaters to Sandy Hill Creek	Oconee
GAR030701021302	Ochwalkee Creek	Unnamed tributary 550 ft upstream Little New York Road to Oconee River	Oconee
GAR030701021408	Peterson Creek	Headwaters to State Route 19 (South 2nd Street)	Oconee
GAR030701021409	Peterson Creek	State Route 19 (South 2nd Street) to the Oconee River	Oconee
GAR030701020904	Pughes Creek	Indian Branch to Oconee River	Oconee
GAR030701021407	Tributary to Limestone Creek	400 ft downstream Mt. Vernon Alston Road to Limestone Creek	Oconee
GAR030701021205	Whitewater Creek	Headwaters to Unnamed tributary 0.8 miles downstream of GA Hwy 19 South	Oconee
GAR030602020504	Ash Branch	Futch Branch to Lower Black Creek	Ogeechee
GAR030602020501	Black Creek	Confluence of Upper and Lower Black Creek to Mill Creek near Blichton	Ogeechee
GAR030602030410	Bull Creek	Tributary off Strickland Pond to Canoochee River near Daisy	Ogeechee
GAR030602030501	Canoochee Creek	Taylors Creek to Canoochee River, Fort Stewart	Ogeechee
GAR030602030506	Canoochee Creek	Upstream SR 119, Ft. Stewart	Ogeechee

Reach ID	Reach Name	Reach Location	Basin
GAR030602030101	Canoochee River	Ga. Hwy. 192 to Fifteen Mile Creek near Metter	Ogeechee
GAR030602030409	Canoochee River	Cedar Creek to Lotts Creek	Ogeechee
GAR030602030411	Canoochee River	Fifteen Mile Creek to Cedar Creek	Ogeechee
GAR030602030602	Canoochee River	Lotts Creek to Savage Creek	Ogeechee
GAR030602030603	Canoochee River	Savage Creek to Ogeechee River	Ogeechee
GAR030602030407	Cedar Creek	Water Hole Creek to Canoochee River, Claxton	Ogeechee
GAR030602030201	Fifteenmile Creek	Stocking Head Branch to Canoochee River near Metter	Ogeechee
GAR030602030203	Fifteenmile Creek	Tributary 0.6 miles upstream Paddy Ford Rd to Sams Creek	Ogeechee
GAR030602040208	Little Ogeechee River	Little Ogeechee Pond to 1.6 miles downstream US Hwy 17 near Burroughs	Ogeechee
GAR030602040209	Little Ogeechee River	Ogeechee Run to Little Ogeechee Pond	Ogeechee
GAR030602030508	Long Branch	Headwaters to Canoochee Creek	Ogeechee
GAR030602030310	Lotts Creek	U.S. Hwy. 301 to Little Lotts Creek near Register	Ogeechee
GAR030602030312	Lotts Creek	Big Branch to Cypress Lake	Ogeechee
GAR030602030315	Lotts Creek	Little Lotts Creek to Reedy Branch	Ogeechee
GAR030602020505	Lower Black Creek	Luke Swamp Branch to Ash Branch	Ogeechee
GAR030602020401	Mill Creek	Newsome Branch to Ogeechee River near Statesboro	Ogeechee
GAR030602020402	Mill Creek	Akins Pond to Newsome Branch	Ogeechee
GAR030602020508	Mill Creek	George Branch to Black Creek	Ogeechee
GAR030602040530	Mount Hope Creek	Raccoon Branch to Jerico River	Ogeechee

Reach ID	Reach Name	Reach Location	Basin
GAR030602020302	Nevills Creek	Bay Gull Creek to Ogeechee River near Rocky Ford	Ogeechee
GAR030602020201	Ogeechee Creek	Old Creek Road to the Ogeechee River near Oliver	Ogeechee
GAR030602040723	Pine Hill Swamp	Upstream McIntosh County WPCP	Ogeechee
GAR030602020503	Pole Branch	Headwaters to Upper Black Creek	Ogeechee
GAR030602040722	Sapelo River	0.2 miles upstream Old Townsend Rd NW to Buck Hill Swamp	Ogeechee
GAR030602030505	Taylors Creek	Tributary 3.3 miles upstream GA 119 to Tributary 0.4 miles downstream GA 119, Fort Stewart"	Ogeechee
GAR030602030408	Tenmile Creek	Tributary at Dutch Ford Road to the Canoochee River	Ogeechee
GAR030602030318	Tributary to Little Lotts Creek	Headwaters to tributary 0.3 miles downstream Langston Chapel Road	Ogeechee
GAR030602020511	Tributary to Mill Creek	Unnamed tributary 0.3 miles upstream Sims Road to Mill Creek	Ogeechee
GAR030602030604	Tributary to the Canoochee River	Tributary near S.R. 67 to the Canoochee River	Ogeechee
GAR030602030311	Wateringhole Branch	Granna Branch to Dry Branch	Ogeechee
GAR030702011003	Alabaha River	Hurricane Creek to Tan Trough Creek	Satilla
GAR030702011006	Alabaha River	Tan Trough Creek to Baxter Branch	Satilla
GAR030702011007	Alabaha River	Baxter Branch to the Satilla River	Satilla
GAR030702010704	Big Creek	South Prong Big Creek to Satilla River	Satilla
GAR030702010712	Big Creek	Laura S. Walker Lake to South Prong Big Creek	Satilla



Reach ID	Reach Name	Reach Location	Basin
GAR030702020101	Big Satilla Creek	Headwaters near Hazlehurst to Sweetwater Creek near Baxley	Satilla
GAR030702020302	Big Satilla Creek	Sweetwater Creek to Colemans Creek	Satilla
GAR030702020103	Bishop Creek	Lake Mayers to Big Satilla Creek	Satilla
GAR030702020203	Blackwater Creek	Headwaters to Sweetwater Creek	Satilla
GAR030702020405	Boggy Creek	Headwaters to Lake Lindsay Grace	Satilla
GAR030702010401	Broxton Creek	Seven Creek to Seventeen Mile River near Broxton	Satilla
GAR030702011102	Buffalo Creek	Little Buffalo Creek to Satilla River	Satilla
GAR030702011212	Bullhead Creek	Tributary 1.3 miles upstream GA 110 to the Satilla River	Satilla
GAR030702011106	Church House Branch	Headwaters to the Satilla River	Satilla
GAR030702020301	Colemans Creek	Dry Branch South of Surrency to Big Satilla Creek near Screven	Satilla
GAR030702010710	Cox Creek	Headwaters to the Satilla River	Satilla
GAR030702010606	Dry Creek	Headwaters to Hurricane Creek	Satilla
GAR030702020406	Dry Creek	Headwaters to Boggy Creek	Satilla
GAR030702010717	Fullwood Creek	Headwaters to the Satilla River	Satilla
GAR030702010601	Hog Creek	Hurricane Creek to Satilla River South of Nicholls near Bickley	Satilla
GAR030702010603	Hurricane Creek	Bear Creek to Dry Creek	Satilla
GAR030702010801	Hurricane Creek	Whitehead Creek to tributary 1.1 miles downstream Little Creek	Satilla
GAR030702010803	Hurricane Creek	Tributary near Sunflower Road to Fox Branch	Satilla

Reach ID	Reach Name	Reach Location	Basin
GAR030702011001	Hurricane Creek	Tributary 1.1 miles downstream Little Creek to Briar Creek near Alma	Satilla
GAR030702010711	Kettle Creek	Tuten Creek to the Satilla River	Satilla
GAR030702010901	Little Hurricane Creek	Ga. Hwy. 32 to Hurricane Creek	Satilla
GAR030702010902	Little Hurricane Creek	Headwaters to Ga. Hwy 32	Satilla
GAR030702010303	Little Red Bluff Creek	Headwaters to Red Bluff Creek	Satilla
GAR030702020407	Little Satilla Creek	Dry Branch to Boggy Creek	Satilla
GAR030702020409	Little Satilla Creek	Alisons Creek to Keene Bay Branch	Satilla
GAR030702020401	Little Satilla Creek	Boggy Creek to Little Satilla River near Screven	Satilla
GAR030702020404	Little Satilla Creek	Keene Bay Branch to Dry Branch near Odum	Satilla
GAR030702020502	Little Satilla River	Big Satilla Creek to Sixty Foot Branch	Satilla
GAR030702011104	Little Satilla River	Sixty Foot Branch to Satilla River	Satilla
GAR030702010903	Mill Branch (formerly Big Branch)	Rigdon Branch to Little Hurricane Creek	Satilla
GAR030702010714	Mill Creek	Lake Floree to Big Creek	Satilla
GAR030702020503	Otter Creek	Long Branch to Griffin Branch	Satilla
GAR030702010505	Otter Creek	Tiger Creek to Seventeen Mile River	Satilla
GAR030702010509	Otter Creek	Tributary 0.3 miles upstream New Forest Hwy to Tiger Creek	Satilla
GAR030702010201	Pudding Creek	Dark Bay to Satilla River N. of Pearson	Satilla
GAR030702010301	Red Bluff Creek	Little Red Bluff Creek to Satilla River East of Pearson	Satilla

Reach ID	Reach Name	Reach Location	Basin
GAR030702020403	Reedy Creek	Headwaters to Little Satilla Creek near Screven (Previously called Headwaters to Big Satilla Creek)	Satilla
GAR030702011213	Rose Creek	Headwaters to the Satilla River	Satilla
GAR030702010102	Satilla Creek	Hunters Creek East of Ocilla to Satilla River	Satilla
GAR030702010103	Satilla Creek	Dorminy Lake to tributary 490 feet upstream of Quail Hollow Road	Satilla
GAR030702010204	Satilla River	Reedy Creek to Indian Creek	Satilla
GAR030702010302	Satilla River	Pudding Creek to Smut Branch near Pearson	Satilla
GAR030702010304	Satilla River	Smut Branch to Red Bluff Creek	Satilla
GAR030702010703	Satilla River	Seventeen Mile River to US Hwy 84/Ga. Hwy. 38	Satilla
GAR030702011103	Satilla River	U.S. Highway 84/Ga. Hwy. 38 to 6 miles downstream Hwy 15/121	Satilla
GAR030702011105	Satilla River	Six miles downstream of Ga. Hwy. 15 to Buffalo Creek	Satilla
GAR030702011207	Satilla River	Buffalo Creek to Bullhead Bluff	Satilla
GAR030702011214	Satilla River	Rose Creek to Woodbine Boat Ramp	Satilla
GAR030702011215	Satilla River	Woodbine Boat Ramp to White Oak Creek	Satilla
GAR030702010404	Seventeen Mile River	Roses Creek to Broxton Creek	Satilla
GAR030702010501	Seventeen Mile River	Otter Creek (Douglas) to Twentynine Mile Creek	Satilla
GAR030702010502	Seventeen Mile River	Twenty Mile Creek North of Douglas to Otter Creek downstream General Coffee State Park	Satilla
GAR030702010503	Seventeen Mile River	Twentynine Mile Creek to Satilla River	Satilla

Reach ID	Reach Name	Reach Location	Basin
GAR030702020504	Sixty Foot Branch	Headwaters to Otter Creek	Satilla
GAR030702010713	South Prong Big Creek	Headwaters to Big Creek	Satilla
GAR030702020202	Sweetwater Creek	Headwaters to Black Water Creek	Satilla
GAR030702020206	Sweetwater Creek	Tributary 0.8 miles down Red Oak Rd to Big Satilla Creek near Baxley	Satilla
GAR030702020505	Tributary #1 to Sixty-foot Branch	Headwaters to Sixty-foot Branch	Satilla
GAR030702010305	Tributary to Little Red Bluff Creek	Albany Avenue West to Little Red Bluff Creek	Satilla
GAR030702020411	Tributary to Little Satilla Creek	Headwaters to Little Satilla Creek	Satilla
GAR030702020204	Tributary to Sweetwater Creek	Headwaters to Sweetwater Creek	Satilla
GAR030702011005	Tributary to the Alabaha River	100 feet upstream Grady Road to the Alabaha River	Satilla
GAR030702010718	Tributary to the Satilla River	Headwaters to the Satilla River	Satilla
GAR030702011209	Waverly Creek	Headwaters to Quarterman Creek	Satilla
GAR030601090205	Cowpen Branch	Headwaters to Runs Branch	Savannah
GAR030601090209	Devils Branch	Headwaters to Runs Branch	Savannah
GAR030601090203	Ebenezer Creek	Long Bridge Road to Savannah River near Springfield	Savannah
GAR030601090208	Jacks Branch	White Deer Branch to Ebenezer Creek	Savannah
GAR030601090210	Little Ebenezer Creek	Headwaters to Ebenezer Creek	Savannah
GAR030601090311	Lockner Creek	Polly Creek to the Savannah River	Savannah

Reach ID	Reach Name	Reach Location	Basin
GAR030601090206	Runs Branch	Tributary 1.3 miles upstream Cloy Kildare Rd to Cowpen Branch	Savannah
GAR030601090211	Runs Branch	Cowpen Creek to Turkey Creek	Savannah
GAR030601090308	St. Augustine Creek	Walthour Swamp (2.5 miles u/s I-95) to Front River near Port Wentworth	Savannah
GAR030601090207	Turkey Branch	Headwaters to Runs Branch	Savannah
GAR030702040602	Boone Creek	Tributary 0.7 miles upstream Roberts Road to St. Marys River	St. Marys
GAR030702040914	Casey Creek	Miller Branch to St. Marys River	St. Marys
GAR030702040912	Catfish Creek	May Branch to the St. Marys River	St. Marys
GAR030702040305	Clay Branch	Headwaters to Spanish Creek	St. Marys
GAR030702040701	Corn House Creek	Headwaters to the St. Marys River	St. Marys
GAR030702040804	Hatchers Branch	Headwaters to Spanish Creek	St. Marys
GAR030702040909	Horsepen Creek (aka Temple Creek)	Temple Creek to the St. Marys River	St. Marys
GAR030702040803	Long Branch	Headwaters to Spanish Creek	St. Marys
GAR030702040913	Miller Branch	Casey Creek to the St. Marys River	St. Marys
GAR030702040309	North Prong St. Marys River	River Styx to Middle Fork St. Marys River	St. Marys
GAR030702040308	River Styx	Headwaters to North Fork St. Marys River	St. Marys
GAR030702040801	Spanish Creek	Long Branch to St. Marys River	St. Marys
GAR030702040802	Spanish Creek	Little Spanish Creek to Long Branch	St. Marys
GAR030702040911	St. Marys Cut East Branch	Riley Creek to the St. Marys River	St. Marys

Reach ID	Reach Name	Reach Location	Basin
GAR030702040916	St. Marys River	Cornhouse Creek to Prospect Landing Rd.	St. Marys
GAR030702040917	St. Marys River	Prospect Landing Rd. to St. Marys Cut	St. Marys
GAR030702040310	St. Marys River	Middle Fork St Marys River to Cedar Creek	St. Marys
GAR030702040501	St. Marys River	South Prong St. Marys River to Deep Creek	St. Marys
GAR030702040603	St. Marys River	Deep Creek to Boone Creek	St. Marys
GAR030702040604	St. Marys River	Boone Creek to Cornhouse Creek	St. Marys
GAR030702040904	St. Marys River	Catfish Creek to Millers Branch	St. Marys
GAR030702040918	St. Marys River	Tributary 0.8 miles upstream Cabbage Creek to Little St. Marys River	St. Marys
GAR030702040919	St. Marys River	Little St. Marys River to Catfish Creek	St. Marys
GAR030702040307	St. Marys River (previously North Prong St. Marys River)	Cedar Creek to South Prong St. Marys River	St. Marys
GAR030702040901	St. Marys Trib. 5 (aka Cooner Branch)	Ray and Hannaford Lake to St. Marys River	St. Marys
GAR031102020301	Alapaha River	U.S. Hwy. 280 to Sand Creek	Suwannee
GAR031102020402	Alapaha River	Sand Creek to U.S. Hwy. 129/Ga. Hwy. 11	Suwannee
GAR031102020404	Alapaha River	U.S. Hwy. 129/Ga. Hwy. 11 to Willacoochee River	Suwannee
GAR031102020703	Alapaha River	Willacoochee River to Dampier Branch	Suwannee
GAR031102021204	Alapaha River	Dampier Branch to Cherry Creek	Suwannee
GAR031102021205	Alapaha River	Cherry Creek to State line	Suwannee

Reach ID	Reach Name	Reach Location	Basin
GAR031102021101	Alapahoochee River	Confluence of Mud Swamp Creek and Grand Bay Creek to Stateline	Suwannee
GAR031102020911	Banks Lake	Lanier County	Suwannee
GAR031102030405	Bear Creek	0.3 miles upstream SR 7 to City of Adel Lake	Suwannee
GAR031102030307	Beaverdam Creek	Rays Millpond to Cat Creek	Suwannee
GAR031102040405	Big Branch	Headwaters to Sumner Lake	Suwannee
GAR031102020804	Big Creek	Fivemile Creek to Mill Creek	Suwannee
GAR031102020805	Big Creek	Pond 0.3 miles upstream of GA-11 (East Main Street) to the Alapaha River	Suwannee
GAR031102010107	Black River	Tom Thumb Creek to Alligator Creek	Suwannee
GAR031102010102	Cane Creek	Rooty Branch to Okeefenokee Swamp near Homerville	Suwannee
GAR031102030304	Cat Creek	Beatty Mill Creek to Withlacoochee River near Ray City	Suwannee
GAR031102030305	Cat Creek	Beaverdam Creek downstream SR 37 to Beatty Mill Creek	Suwannee
GAR031102030308	Cat Creek	Batterbee Branch to Beaverdam Creek	Suwannee
GAR031102021202	Cow Creek	Headwaters to Alapaha River	Suwannee
GAR031102010401	Cypress Creek	Tributary 0.8 miles upstream Council Rd to the Suwannee River	Suwannee
GAR031102020801	Fivemile Creek	Downstream Gaskins Pond to Big Creek near Nashville	Suwannee
GAR031102040503	Franks Creek	State Route S1780 (Morven Road) to Little River near Hahira	Suwannee
GAR031102020908	Grand Bay Creek	Grand Bay to Alapahoochee River	Suwannee

Reach ID	Reach Name	Reach Location	Basin
GAR031102020305	Hat Creek	Headwaters to Unnamed tributary 980 feet upstream of Bussey Rd	Suwannee
GAR031102020308	Hat Creek	Unnamed tributary 980 feet upstream Bussey Rd to unnamed tributary 100 feet upstream Robert Davis Rd	Suwannee
GAR031102020309	Hat Creek	Unnamed tributary 100 feet upstream Robert Davis Rd to to SR S 1989 S.E. (E. Inaha Rd)	Suwannee
GAR031102040304	Horse Creek	Headwaters near Sylvester to Warrior Creek	Suwannee
GAR031102030409	Indian Trail Branch	Pond 0.75 miles upstream Adel Hwy (GA 37) to Bear Creek	Suwannee
GAR031102030903	Jumping Gully Creek	Bevel Creek to State Line	Suwannee
GAR031102040102	Little River	Newell Branch, downstream Hwy. 32 to Ashburn Branch, West of Sycamore	Suwannee
GAR031102040105	Little River	Big Branch to Warrior Creek	Suwannee
GAR031102010106	Little Suwannee Creek	Headwaters to Suwannee Creek	Suwannee
GAR031102020803	Mill Creek	Lake Irma to Big Creek	Suwannee
GAR031102040501	Morrison Creek	Headwaters to Wells Mill Creek (Adel)	Suwannee
GAR031102030602	Mule Creek	Headwaters to Reedy Creek near Pavo	Suwannee
GAR031102030603	Okapilco Creek	Rainy Creek to Mule Creek	Suwannee
GAR031102030704	Piscola Creek	Allen Branch to Okapilco Creek near Boston	Suwannee
GAR031102030705	Piscola Creek	Headwaters to Tributary 0.3 miles upstream of Pope Road	Suwannee
GAR031102030706	Piscola Creek	Tributary 0.3 miles upstream of Pope Road to Whitlock Branch	Suwannee



Reach ID	Reach Name	Reach Location	Basin
GAR031102030707	Piscola Creek	Downstream Whitlock Branch @ Ozell Road to Dry Lake Creek	Suwannee
GAR031102030708	Piscola Creek	Dry Lake Creek to Allen Branch	Suwannee
GAR031102030702	Pride Branch	Headwaters to Piscola Creek, Quitman	Suwannee
GAR031102010105	Suwannee Creek	Little Suwannee Creek to Water Oak Creek	Suwannee
GAR031102010501	Suwannee River	East Fork Suwannee River to State line	Suwannee
GAR031102010301	Suwanneechee Creek	Lees Bay to Suwannee River	Suwannee
GAR031102010302	Suwanneechee Creek	Bear Branch to Lees Bay	Suwannee
GAR031102010201	Tatum Creek	Tributary at Fire Tower Road to Jones Creek	Suwannee
GAR031102010202	Tatum Creek	Dikerson Mill Pond (0.4 miles upstream Millpond Rd) to tributary at Fire Tower Road	Suwannee
GAR031102010204	Tatum Creek	Tributary 0.3 miles upstream Tower Road to Dry Branch	Suwannee
GAR031102010203	Tatum Creek (formerly Jones Creek)	Dry Branch to the Suwannee River	Suwannee
GAR031102020802	Tenmile Creek	Averys Millpond to Big Creek near Nashville	Suwannee
GAR031102010502	Toms Creek	Headwaters to Stateline	Suwannee
GAR031102030207	Tributary to the New River	700 feet upstream of Old Ocilla Road to the New River	Suwannee
GAR031102030804	Tributary to Withlacoochee River #2	Headwaters to Withlacoochee River	Suwannee
GAR031102040308	Warrior Creek	Lolly Creek to Rocky Creek near Norman Park	Suwannee
GAR031102020610	Willacoochee River	Turkey Creek to tributary 0.4 miles upstream of Frank Road	Suwannee

Reach ID	Reach Name	Reach Location	Basin
GAR031102020611	Willacoochee River	Tributary 0.4 miles upstream of Frank Road to SR 90	Suwannee
GAR031102030101	Withlacoochee River	Headwaters (Cypress Creek) to New River	Suwannee
GAR031102030401	Withlacoochee River	Bay Branch to Little River	Suwannee
GAR031102010108	Woodyard Creek	Tributary 400 feet downstream US 84 to Surveyors Creek	Suwannee