Appendix B: Dissolved Oxygen Results

All Figures presented in this Appendix are DRAFT and are subject to change.
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- **< 0.0 mg/L of DO Available**
  - None or exceeded capacity
- **0.0 mg/L of DO Available**
  - At Assimilative Capacity
- **> 0.0 mg/L to < 0.2 mg/L of DO Available**
  - Limited
- **0.2 mg/L to < 0.5 mg/L of DO Available**
  - Moderate
- **0.5 mg/L to < 1.0 mg/L of DO Available**
  - Good
- **≥ 1.0 mg/L of DO Available**
  - Very Good

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B.1 Chattahoochee River Watershed

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B.5 Oconee, Ocmulgee, and Altamaha River Watersheds

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Figure B-31  Current (left) and Future (right) Detailed Results of Dissolved Oxygen Models in the Upper Oconee River Watershed
Figure B-32  Current (left) and Future (right) Detailed Results of Dissolved Oxygen Models in the Middle Oconee River Watershed
Figure B-33   Current (left) and Future (right) Detailed Results of Dissolved Oxygen Models in the Lower Oconee River Watershed
Figure B-34 Current (left) and Future (right) Detailed Results of Dissolved Oxygen Models in the Upper Ocmulgee River Watershed
Figure B-35  Current (left) and Future (right) Detailed Results of Dissolved Oxygen Models in the Middle Ocmulgee River Watershed
Figure B-36  Current (left) and Future (right) Detailed Results of Dissolved Oxygen Models in the Lower Ocmulgee River Watershed
Figure B-37  Current (left) and Future (right) Detailed Results of Dissolved Oxygen Models in the Ohoopee River Watershed portion of the Altamaha River Watershed
Figure B-38  Current (left) and Future (right) Detailed Results of Dissolved Oxygen Models in the Lower Altamaha River Watershed
B.6 Suwannee, Satilla, and St. Mary’s River Watersheds

Figure B-39 Current (left) and Future (right) Results of Dissolved Oxygen Models in the Suwannee, Satilla, and St. Mary’s River Watersheds
Figure B-40  Current (left) and Future (right) Detailed Results of Dissolved Oxygen Models in the Upper Suwannee River Watershed
Figure B-41 Current (left) and Future (right) Detailed Results of Dissolved Oxygen Models in the Lower Suwannee River West Watershed
Figure B-42  Current (left) and Future (right) Detailed Results of Dissolved Oxygen Models in the Lower Suwannee River East Watershed
Figure B-43  Current (left) and Future (right) Detailed Results of Dissolved Oxygen Models in the Satilla River Watershed
Figure B-44  Current (left) and Future (right) Detailed Results of Dissolved Oxygen Models in the St. Mary’s River Watershed
B.7 Estuaries

The figures to follow illustrate the assimilative capacity for estuarine dissolved oxygen based on the difference of a natural condition (hydric soils) run compared with the Current Permit and Future Permit scenario. Table B-1 through Table B-5 also define the number of cells per estuary where no assimilative capacity is available for each scenario (Current Permit and Future Permit).

The lowest available assimilative capacity, with respect to concentration, in the Ossabaw Sound occurs in 2010 under future permit conditions; the lowest available assimilative capacity for current conditions also occurs in 2010 (a representative normal weather year). The lowest available assimilative capacity in the Ossabaw Sound is -0.690 mg/L under future permit conditions and -0.440 mg/L under current permit conditions.

The lowest available assimilative capacity, with respect to concentration, in the Altamaha Sound occurs in a representative normal weather year, 2007, under current permit conditions. The lowest available assimilative capacity is -0.37 mg/L.

The lowest available assimilative capacity, with respect to concentration, in the Brunswick Harbor Sound, -0.34 mg/L, occurs in a representative dry weather year, 2003, under current permit conditions.

The lowest available assimilative capacity, with respect to concentration, in the St. Andrews Sound, -1.426 mg/L, occurs in a representative wet weather year, 2009, under current permit conditions.

The lowest available assimilative capacity, with respect to concentration, in the St. Mary’s Sound occurs in 2006 under future permit conditions; the lowest available assimilative capacity for current conditions occurs in 2003. The lowest available assimilative capacity in the St. Mary’s Sound is -0.117 mg/L under future permit conditions and -0.108 mg/L under current permit conditions. Conditions in both 2003 and 2006 represent dry weather years.
Figure B-45  Available Assimilative Capacity of Dissolved Oxygen in Ossabaw Sound (Current Permit): 2001
Figure B-46  Available Assimilative Capacity of Dissolved Oxygen in Ossabaw Sound (Current Permit): 2002
Figure B-47  Available Assimilative Capacity of Dissolved Oxygen in Ossabaw Sound (Current Permit): 2003
Figure B-48  Available Assimilative Capacity of Dissolved Oxygen in Ossabaw Sound (Current Permit): 2004
Available Assimilative Capacity of Dissolved Oxygen in Ossabaw Sound (Current Permit): 2005

Figure B-49
Figure B-51  Available Assimilative Capacity of Dissolved Oxygen in Ossabaw Sound (Current Permit): 2007
Figure B-52  Available Assimilative Capacity of Dissolved Oxygen in Ossabaw Sound (Current Permit): 2008
Figure B-53  Available Assimilative Capacity of Dissolved Oxygen in Ossabaw Sound (Current Permit): 2009
Figure B-54  Available Assimilative Capacity of Dissolved Oxygen in Ossabaw Sound (Current Permit): 2010
Figure B-55  Available Assimilative Capacity of Dissolved Oxygen in Ossabaw Sound (Current Permit): 2011
Figure B-56  Available Assimilative Capacity of Dissolved Oxygen in Ossabaw Sound (Current Permit): 2012
Figure B-57  Available Assimilative Capacity of Dissolved Oxygen in Ossabaw Sound (Future Permit): 2001
Figure B-58  Available Assimilative Capacity of Dissolved Oxygen in Ossabaw Sound (Future Permit): 2002
Figure B-59  Available Assimilative Capacity of Dissolved Oxygen in Ossabaw Sound (Future Permit): 2003
Figure B-60  Available Assimilative Capacity of Dissolved Oxygen in Ossabaw Sound (Future Permit): 2004
Figure B-61  Available Assimilative Capacity of Dissolved Oxygen in Ossabaw Sound (Future Permit): 2005
Figure B-62  Available Assimilative Capacity of Dissolved Oxygen in Ossabaw Sound (Future Permit): 2006
Figure B-63  Available Assimilative Capacity of Dissolved Oxygen in Ossabaw Sound (Future Permit): 2007
Figure B-64  Available Assimilative Capacity of Dissolved Oxygen in Ossabaw Sound (Future Permit): 2008
Figure B-65  Available Assimilative Capacity of Dissolved Oxygen in Ossabaw Sound (Future Permit): 2009
Figure B-66  Available Assimilative Capacity of Dissolved Oxygen in Ossabaw Sound (Future Permit): 2010
Figure B-67  Available Assimilative Capacity of Dissolved Oxygen in Ossabaw Sound (Future Permit): 2011
Figure B-68  Available Assimilative Capacity of Dissolved Oxygen in Ossabaw Sound (Future Permit): 2012
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Figure B-69  Available Assimilative Capacity of Dissolved Oxygen in Altamaha Sound (Current Permit): 2001
Figure B-70   Available Assimilative Capacity of Dissolved Oxygen in Altamaha Sound (Current Permit): 2002
Figure B-71  Available Assimilative Capacity of Dissolved Oxygen in Altamaha Sound (Current Permit): 2003
Figure B-72  Available Assimilative Capacity of Dissolved Oxygen in Altamaha Sound (Current Permit): 2004
Figure B-73  Available Assimilative Capacity of Dissolved Oxygen in Altamaha Sound (Current Permit): 2005
Figure B-74  Available Assimilative Capacity of Dissolved Oxygen in Altamaha Sound (Current Permit): 2006
Figure B-75  Available Assimilative Capacity of Dissolved Oxygen in Altamaha Sound (Current Permit): 2007
Figure B-76  Available Assimilative Capacity of Dissolved Oxygen in Altamaha Sound (Current Permit): 2008
Figure B-77  Available Assimilative Capacity of Dissolved Oxygen in Altamaha Sound (Current Permit): 2009
Figure B-78  Available Assimilative Capacity of Dissolved Oxygen in Altamaha Sound (Current Permit): 2010
Figure B-79  Available Assimilative Capacity of Dissolved Oxygen in Altamaha Sound (Current Permit): 2011
Figure B-80  Available Assimilative Capacity of Dissolved Oxygen in Altamaha Sound (Current Permit): 2012
Figure B-81  Available Assimilative Capacity of Dissolved Oxygen in Altamaha Sound (Future Permit): 2001
Figure B-82  Available Assimilative Capacity of Dissolved Oxygen in Altamaha Sound (Future Permit): 2002
Figure B-83  Available Assimilative Capacity of Dissolved Oxygen in Altamaha Sound (Future Permit): 2003
Figure B-84  Available Assimilative Capacity of Dissolved Oxygen in Altamaha Sound (Future Permit): 2004
Figure B-85  Available Assimilative Capacity of Dissolved Oxygen in Altamaha Sound (Future Permit): 2005
Figure B-86  Available Assimilative Capacity of Dissolved Oxygen in Altamaha Sound (Future Permit): 2006
Figure B-87  Available Assimilative Capacity of Dissolved Oxygen in Altamaha Sound (Future Permit): 2007
Figure B-88  Available Assimilative Capacity of Dissolved Oxygen in Altamaha Sound (Future Permit): 2008
Figure B-89  Available Assimilative Capacity of Dissolved Oxygen in Altamaha Sound (Future Permit): 2009
Figure B-90  Available Assimilative Capacity of Dissolved Oxygen in Altamaha Sound (Future Permit): 2010
Figure B-91  Available Assimilative Capacity of Dissolved Oxygen in Altamaha Sound (Future Permit): 2011
Figure B-92  Available Assimilative Capacity of Dissolved Oxygen in Altamaha Sound (Future Permit): 2012
### Table B-2  Number of cells in Altamaha Sound with 0 mg/L of Assimilative Capacity

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Figure B-93  Available Assimilative Capacity of Dissolved Oxygen in Brunswick Harbor Sound (Current Permit): 2001
Figure B-94  Available Assimilative Capacity of Dissolved Oxygen in Brunswick Harbor Sound (Current Permit): 2002
Figure B-95  Available Assimilative Capacity of Dissolved Oxygen in Brunswick Harbor Sound (Current Permit): 2003
Figure B-96  Available Assimilative Capacity of Dissolved Oxygen in Brunswick Harbor Sound (Current Permit): 2004
Figure B-97  Available Assimilative Capacity of Dissolved Oxygen in Brunswick Harbor Sound (Current Permit): 2005
Figure B-98  Available Assimilative Capacity of Dissolved Oxygen in Brunswick Harbor Sound (Current Permit): 2006
Figure B-99  Available Assimilative Capacity of Dissolved Oxygen in Brunswick Harbor Sound (Current Permit): 2007
Figure B-100  Available Assimilative Capacity of Dissolved Oxygen in Brunswick Harbor Sound (Current Permit): 2008
Figure B-101  Available Assimilative Capacity of Dissolved Oxygen in Brunswick Harbor Sound (Current Permit): 2009
Figure B-102  Available Assimilative Capacity of Dissolved Oxygen in Brunswick Harbor Sound (Current Permit): 2010
Figure B-103  Available Assimilative Capacity of Dissolved Oxygen in Brunswick Harbor Sound (Current Permit): 2011
Figure B-104  Available Assimilative Capacity of Dissolved Oxygen in Brunswick Harbor Sound (Current Permit): 2012
Figure B-105  Available Assimilative Capacity of Dissolved Oxygen in Brunswick Harbor Sound (Future Permit): 2001
Figure B-106  Available Assimilative Capacity of Dissolved Oxygen in Brunswick Harbor Sound (Future Permit): 2002
Figure B-107  Available Assimilative Capacity of Dissolved Oxygen in Brunswick Harbor Sound (Future Permit): 2003
Figure B-108  Available Assimilative Capacity of Dissolved Oxygen in Brunswick Harbor Sound (Future Permit): 2004
Figure B-109  Available Assimilative Capacity of Dissolved Oxygen in Brunswick Harbor Sound (Future Permit): 2005
Figure B-110  Available Assimilative Capacity of Dissolved Oxygen in Brunswick Harbor Sound (Future Permit): 2006
Figure B-111  Available Assimilative Capacity of Dissolved Oxygen in Brunswick Harbor Sound (Future Permit): 2007
Figure B-112  Available Assimilative Capacity of Dissolved Oxygen in Brunswick Harbor Sound (Future Permit): 2008
Figure B-113  Available Assimilative Capacity of Dissolved Oxygen in Brunswick Harbor Sound (Future Permit): 2009
Figure B-114  Available Assimilative Capacity of Dissolved Oxygen in Brunswick Harbor Sound (Future Permit): 2010
Figure B-115  Available Assimilative Capacity of Dissolved Oxygen in Brunswick Harbor Sound (Future Permit): 2011
Figure B-116  Available Assimilative Capacity of Dissolved Oxygen in Brunswick Harbor Sound (Future Permit): 2012
### Table B-3  Number of cells in Brunswick Harbor Sound with 0 mg/L of Assimilative Capacity

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Figure B-117  Available Assimilative Capacity of Dissolved Oxygen in St. Andrews Sound (Current Permit): 2001
Figure B-118  Available Assimilative Capacity of Dissolved Oxygen in St. Andrews Sound (Current Permit): 2002
Figure B-119  Available Assimilative Capacity of Dissolved Oxygen in St. Andrews Sound (Current Permit): 2003
Figure B-120 Available Assimilative Capacity of Dissolved Oxygen in St. Andrews Sound (Current Permit): 2004
Figure B-121  Available Assimilative Capacity of Dissolved Oxygen in St. Andrews Sound (Current Permit): 2005
Figure B-122  Available Assimilative Capacity of Dissolved Oxygen in St. Andrews Sound (Current Permit): 2006
Figure B-123  Available Assimilative Capacity of Dissolved Oxygen in St. Andrews Sound (Current Permit): 2007
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Figure B-127  Available Assimilative Capacity of Dissolved Oxygen in St. Andrews Sound (Current Permit): 2011
Figure B-128  Available Assimilative Capacity of Dissolved Oxygen in St. Andrews Sound (Current Permit): 2012
Figure B-129  Available Assimilative Capacity of Dissolved Oxygen in St. Andrews Sound (Future Permit): 2001
Figure B-130  Available Assimilative Capacity of Dissolved Oxygen in St. Andrews Sound (Future Permit): 2002
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Figure B-138  Available Assimilative Capacity of Dissolved Oxygen in St. Andrews Sound (Future Permit): 2010
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### Table B-4  Number of cells in St. Andrews Sound with 0 mg/L of Assimilative Capacity

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Figure B-141  Available Assimilative Capacity of Dissolved Oxygen in St. Mary's Sound (Current Permit): 2001
Figure B-142  Available Assimilative Capacity of Dissolved Oxygen in St. Mary’s Sound (Current Permit): 2002
Figure B-143  Available Assimilative Capacity of Dissolved Oxygen in St. Mary’s Sound (Current Permit): 2003
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Figure B-145  Available Assimilative Capacity of Dissolved Oxygen in St. Mary’s Sound (Current Permit): 2005
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Figure B-149  Available Assimilative Capacity of Dissolved Oxygen in St. Mary’s Sound (Current Permit): 2009
Figure B-150  Available Assimilative Capacity of Dissolved Oxygen in St. Mary's Sound (Future Permit): 2001
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Figure B-157  Available Assimilative Capacity of Dissolved Oxygen in St. Mary's Sound (Future Permit): 2008
Figure B-158  Available Assimilative Capacity of Dissolved Oxygen in St. Mary’s Sound (Future Permit): 2009
Table B-5 Number of cells in St. Mary’s Sound with 0 mg/L of Assimilative Capacity

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