

Water Quality Assessment Summary

Great Pee Dee River Basin

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TERMS USED IN TABLES

AQUATIC LIFE USE SUPPORT (AL) - The degree to which aquatic life is protected is assessed by comparing important water quality characteristics and the concentrations of potentially toxic pollutants with standards. Aquatic life use support is based on the percentage of standards excursions at a sampling site.

For **dissolved oxygen** and **pH**:

If the percentage of standard excursions is 10% or less, then uses are *fully supported*.

If the percentage of standard excursions is greater than 10% and less than or equal to 25%, then uses are *partially supported*.

If the percentage of standard excursions is greater than 25%, uses are *not supported* (see p.12 for further information).

For **toxins** (heavy metals, priority pollutants, chlorine, ammonia):

If the chronic or acute aquatic life standard for any individual toxicant is not exceeded more than once, uses are *fully supported*.

If the appropriate acute or chronic aquatic life standard is exceeded more than once (i.e. ≥ 2), but is less than or equal to 10% of the samples, uses are *partially supported*.

If the appropriate acute or chronic aquatic life standard is exceeded more than once (i.e. ≥ 2), and is greater than 10% of the samples, aquatic life uses are *not supported* (see p.12 for further information).

For **turbidity** and waters with **numeric total phosphorus, total nitrogen, and chlorophyll-a**:

If the percentage of standard excursions is 25% or less, then uses are *fully supported*.

If the percentage of standard excursions is greater than 25%, then uses are *not supported* (see p.13 for further information).

RECREATIONAL USE SUPPORT (REC) - The degree to which the swimmable goal of the Clean Water Act is attained (recreational use support) is based on the frequency of fecal coliform bacteria excursions, defined as greater than 400/100 ml for all surface water classes.

If 10% or less of the samples are greater than 400/100 ml, then recreational uses are said to be *fully supported*.

If the percentage of standards excursions is greater than 10% and less than or equal to 25%, then recreational uses are said to be *partially supported*.

If the percentage of standards excursions is greater than 25%, then recreational uses are said to be *nonsupported* (see p.14 for further information).

Excursion - The term excursion is used to describe a measurement that does not comply with the appropriate water quality standard.

Table 1. Fully Supported Sites in the Great Pee Dee River Basin 2006-2010

* = Station not evaluated for Recreational Support; TD=TMDL Developed; TI=TMDL Implementation; Trend Data 1994-2008

Watershed	Waterbody Name	Station #	Improving Trends	Other Trends
03040201-04	Thompson Creek	PD-711*		
		PD-338	Increasing Dissolved Oxygen	Increasing Total Phosphorus, Fecal Coliform; Decreasing pH
	Jimmies Creek	RS-08273		
	Eureka Lake	RL-06436		Increasing Turbidity; Decreasing pH
		RL-03346		
		RL-06448		
	Juniper Lake	RL-10101		
		CL-088		
Juniper Creek	PD-340		Increasing BOD5, Turbidity, Total Phosphorus; Decreasing pH	
03040201-05	Whites Creek	PD-191	Increasing Dissolved Oxygen	Increasing BOD5, Turbidity; Decreasing pH
03040201-06	Black Creek	PD-004		Decreasing pH
		PD-710*		
		PD-251		Increasing Turbidity, Total Phosphorus, Fecal Coliform; Decreasing pH
	Little Black Creek Trib.	RS-08065		
	Skipper Creek.	PD-613		
	Lake Robinson	PD-327	Decreasing Turbidity, Total Nitrogen	Decreasing pH
CL-094		Decreasing Total Nitrogen	Decreasing pH; Increasing Fecal Coliform	

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Watershed	Waterbody Name	Station #	Improving Trends	Other Trends
03040201-07	Black Creek	PD-159		
		PD-021	Decreasing Turbidity	Increasing BOD5
		PD-330		
		PD-023		Increasing Fecal Coliform
		PD-024A		Decreasing Dissolved Oxygen
		PD-025		
		PD-027		Increasing BOD5, Total Suspended Solids
		PD-078 ^{TD}		Increasing Turbidity, Fecal Coliform; Decreasing Dissolved Oxygen, pH
	Lake Prestwood	PD-268		
		PD-081		
	Boggy Swamp	PD-542*		
High Hill Creek	PD-103			
03040201-08	Three Creeks	PD-341		
		PD-367		Increasing pH
		RS-08069		
	Rogers Creek	RS-07201		
03040201-09	Jeffries Creek	PD-231		Increasing BOD5, Turbidity, Fecal Coliform; Decreasing Dissolved Oxygen

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Watershed	Waterbody Name	Station #	Improving Trends	Other Trends
03040201-10	Pocosin Swamp Tributary	RS-09329		
	Great Pee Dee River	PD-337	Decreasing Total Phosphorus	Increasing Fecal Coliform; Decreasing Dissolved Oxygen, pH
03040201-12	Great Pee Dee River	RS-10365		
		RS-08237		
		PD-076	Decreasing Total Phosphorus	Increasing Turbidity; Decreasing pH
03040203-13	Ashpole Swamp	PD-347		
03040204-01	McLaurins Mill Pond	PD-017A		
	Panther Creek	PD-306		
		PD-016		
	Gum Swamp	PD-062		
	Little Pee Dee River	PD-365		
03040204-02	Leith Creek	PD-372		
03040204-03	Shoe Heel Creek	PD-371		
03040204-04	Buck Swamp	PD-031		
		RS-07047		
03040204-05	Little Pee Dee River	PD-069		Decreasing Dissolved Oxygen
		PD-029E ^{TD, TI}		Increasing Total Phosphorus
		PD-055		Increasing BOD5; Decreasing Dissolved Oxygen
		PD-030A ^{TD, TI}		

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Watershed	Waterbody Name	Station #	Improving Trends	Other Trends	
03040204-05 (continued)	Maple Swamp	PD-030 ^{TD, TI}			
03040204-07	Brunson Swamp	PD-370			
	Chinners Swamp	RS-07051			
		PD-177		Increasing Fecal Coliform	
03040204-08	Little Pee Dee River	PD-042	Decreasing Turbidity	Increasing BOD5, Fecal Coliform	
		RS-06181			
		PD-189	Decreasing Turbidity	Decreasing pH	
		PD-350	Decreasing Total Phosphorus	Decreasing Dissolved Oxygen	
03040207-01	Turkey Creek	MD-076N			
03040207-02	Great Pee Dee River	RS-04377		Increasing Fecal Coliform	
		PD-060	Decreasing Total Phosphorus	Decreasing Dissolved Oxygen	
		PD-061			
		MD-275	Decreasing Fecal Coliform	Increasing pH	
	Winyah Bay	RO-08348			
		RO-10380			
		RO-07332			
		MD-278			
		RO-06317			

Table 2. Impaired Sites in the Great Pee Dee River Basin 2006-2010

REC=Recreational; AL=Aquatic Life; FS=Fully Supported Standards; PS=Partially Supported Standards; NS=Nonsupported Standards; *=Station not evaluated for Recreational Support; **=Station not evaluated for Aquatic Life Support; TD=TMDL Developed; TI=TMDL Implementation; Trend Data 1996-2010

Watershed	Waterbody Name	Station #	Use	Status	Water Quality Indicator	Improving Trends	Other Trends
03040201-04	Deep Creek	RS-01013**	REC	NS	Fecal Coliform		
	Thompson Creek	PD-246 ^{TD, TI}	REC	NS	Fecal Coliform		
		PD-247 ^{TD, TI}	REC	PS	Fecal Coliform		Decreasing pH
	Indian Creek	RS-10377	AL	PS	Dissolved Oxygen		
			REC	NS	Fecal Coliform		
03040201-05	Westfield Creek	PD-339	AL	PS	pH	Increasing Dissolved Oxygen	Increasing BOD5, Turbidity, Fecal Coliform; Decreasing pH
03040201-07	Snake Branch	PD-258 ^{TD}	REC	NS	Fecal Coliform		Increasing Fecal Coliform
		PD-137 ^{TD}	REC	NS	Fecal Coliform		
	Tilefield to Ditch to Swift Creek	PD-141 ^{TD}	AL	NS	Ammonia	Increasing Dissolved Oxygen; Decreasing Turbidity	
			REC	NS	Fecal Coliform		
	Ashby Branch	RS-06027 ^{TD}	AL	NS	Dissolved Oxygen, pH		
REC			NS	Fecal Coliform			
03040201-08	Buckholtz Creek	PD-637*	AL	PS	Macroinvertebrates		
	Hagins Prong	PD-336	REC	PS	Fecal Coliform		
	Great Pee Dee River	PD-028	REC	PS	Fecal Coliform	Decreasing Total Phosphorus	Increasing BOD5; Decreasing Dissolved Oxygen, pH

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REC=Recreational; AL=Aquatic Life; FS=Fully Supported Standards; PS=Partially Supported Standards; NS=Nonsupported Standards; *=Station not evaluated for Recreational Support; **=Station not evaluated for Aquatic Life Support; TD=TMDL Developed; TI=TMDL Implementation; Trend Data 1996-2010

Watershed	Waterbody Name	Station #	Use	Status	Water Quality Indicator	Improving Trends	Other Trends
03040201-09	Jeffries Creek	PD-639*	AL	PS	Macroinvertebrates		
		PD-255	AL	PS	Dissolved Oxygen		
		PD-256	AL	NS	Dissolved Oxygen		
			REC	NS	Fecal Coliform		
		PD-035	REC	NS	Fecal Coliform		Increasing Fecal Coliform
	Gulley Branch	PD-065 ^{TD, TI}	REC	NS	Fecal Coliform	Decreasing Turbidity	
	Middle Swamp	PD-230	AL	NS	Dissolved Oxygen		Increasing Fecal Coliform
	Polk Swamp	RS-07205	REC	NS	Fecal Coliform		
	Willow Creek	PD-167	REC	PS	Fecal Coliform		
03040201-11	Smith Swamp	PD-320 ^{TD}	AL	PS	Dissolved Oxygen		
			REC	PS	Fecal Coliform		
		PD-187 ^{TD}	AL	NS	Dissolved Oxygen	Decreasing Fecal Coliform	Increasing BOD5; Decreasing pH
	Catfish Canal	PD-097	AL	NS	Dissolved Oxygen	Decreasing BOD5, Total Phosphorus	Increasing Fecal Coliform; Decreasing pH
REC			PS	Fecal Coliform			
03040203-13	Bear Swamp	PD-368	REC	PS	Fecal Coliform	Decreasing Turbidity, Total Phosphorus	
03040203-14	Lumber River	PD-038	AL	NS	Dissolved Oxygen	Decreasing Total Phosphorus	Increasing BOD5; Decreasing pH
			REC	PS	Fecal Coliform		

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Watershed	Waterbody Name	Station #	Use	Status	Water Quality Indicator	Improving Trends	Other Trends
03040204-04	Buck Swamp	PD-349	AL	NS	Dissolved Oxygen		Increasing Turbidity; Decreasing pH
03040204-05	Little Pee Dee River	PD-348	AL	PS	Dissolved Oxygen	Decreasing Fecal Coliform	Increasing BOD5, pH
		PD-052	AL	PS	Dissolved Oxygen		Increasing BOD5
03040204-06	Bobs Branch	RS-06009	AL	NS	Dissolved Oxygen		
	Lake Swamp	PD-176	REC	PS	Fecal Coliform		Decreasing Dissolved Oxygen
03040204-07	Chinners Swamp	PD-352 TD,TI	REC	PS	Fecal Coliform		Increasing pH, Total Phosphorus, Fecal Coliform
03040204-08	Cedar Creek	PD-351	AL	NS	Dissolved Oxygen		
	White Oak Creek	RS-08229	REC	NS	Fecal Coliform		
		PD-037 ^{TD}	REC	PS	Fecal Coliform		Increasing Fecal Coliform
03040207-01	Sampit River	MD-075	AL	NS	Dissolved Oxygen		
		MD-077	AL	PS	Dissolved Oxygen		Increasing BOD5
		MD-073	AL	PS	Dissolved Oxygen, pH		
		MD-074	AL	PS	Dissolved Oxygen, pH		
	Whites Creek	MD-149	AL	PS	Dissolved Oxygen		

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Watershed	Waterbody Name	Station #	Use	Status	Water Quality Indicator	Improving Trends	Other Trends
03040207-02	Cypress Creek	RS-06013	REC	NS	Fecal Coliform		
	Winyah Bay	MD-080	AL	PS	Dissolved Oxygen, pH		Increasing pH

Table 3. Changes in Use Support Status
Great Pee Dee River Basin Sites that Improved from 2004 to 2010

REC= Recreational; AL=Aquatic Life; FS=Fully Supported Standards; PS=Partially Supported Standards; NS=Nonsupported Standards; TD=TMDL Developed; TI=TMDL Implementation

Watershed	Waterbody Name	Station #	Use	Status		Water Quality Indicator	
				2004	2010	2004	2010
03040201-04	Thompson Creek	PD-247 ^{TD,TI}	REC	NS	PS	Fecal Coliform	Fecal Coliform
	Eureka Lake	RL-03346	AL	NS	FS	pH	
	Juniper Creek	PD-340	AL	NS	FS	pH	
03040201-05	Great Pee Dee River	PD-015	REC	PS	FS	Fecal Coliform	
	Cedar Creek	PD-151	AL	NS	FS	pH	
03040201-07	Black Creek	PD-021	REC	PS	FS	Fecal Coliform	
		PD-025	REC	PS	FS	Fecal Coliform	
	Snake Branch	PD-258 ^{TD}	AL	NS	FS	pH	
03040201-08	Three Creeks	PD-341	AL	NS	FS	pH	
03040201-09	Gulley Branch	PD-065 ^{TD,TI}	AL	PS	FS	pH	
	Middle Swamp	PD-230	REC	PS	FS	Fecal Coliform	
03040201-11	Smith Swamp	PD-320 ^{TD}	REC	NS	PS	Fecal Coliform	Fecal Coliform
		PD-187 ^{TD}	REC	PS	FS	Fecal Coliform	
03040203-13	Bear Swamp	PD-368	AL	NS	FS	Dissolved Oxygen	
03040204-01	Little Pee Dee River	PD-365	AL	NS	FS	pH	
03040204-04	Buck Swamp	PD-031	REC	PS	FS	Fecal Coliform	
03040204-05	Little Pee Dee River	PD-029E ^{TD,TI}	REC	PS	FS	Fecal Coliform	
		PD-030A ^{TD,TI}	AL	NS	FS	Dissolved Oxygen	
			REC	PS	FS	Fecal Coliform	
PD-348	AL	NS	PS	pH	Dissolved Oxygen		
03040204-05	Maple Swamp	PD-030 ^{TD,TI}	REC	PS	FS	Fecal Coliform	
03040204-08	White Oak Creek	PD-037 ^{TD}	AL	PS	FS	Dissolved Oxygen	
	Little Pee Dee River	PD-042	AL	NS	FS	Dissolved Oxygen	

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Watershed	Waterbody Name	Station #	Use	Status		Water Quality Indicator	
				2004	2010	2004	2010
03040207-01	Turkey Creek	MD-076N	AL	NS	FS	pH	
	Whites Creek	MD-149	AL	NS	PS	Dissolved Oxygen Copper	Dissolved Oxygen
03040207-02	Great Pee Dee River	PD-060	AL	NS	FS	Copper	
		MD-275	AL	NS	FS	Dissolved Oxygen	
	AIWW	MD-278	AL	PS	FS	Dissolved Oxygen	

Table 4. Changes in Use Support Status
Great Pee Dee River Basin Sites that Degraded from 2004 to 2010

REC= Recreational; AL=Aquatic Life; FS=Fully Supported Standards; PS=Partially Supported Standards; NS=Nonsupported Standards; TD=TMDL Developed; TI=TMDL Implementation

Watershed	Waterbody Name	Station #	Use	Status		Water Quality Indicator	
				2004	2010	2004	2010
03040201-04	Deep Creek	RS-01013	REC	PS	NS	Fecal Coliform	Fecal Coliform
03040201-05	Great Pee Dee River	PD-012	AL	FS	NS		Copper
03040201-07	Snake Branch	PD-137 ^{TD}	REC	FS	NS		Fecal Coliform
	Tilefield to Swift Creek	PD-141 ^{TD}	AL	FS	NS		Ammonia
03040201-08	Hagins Prong	PD-336	REC	FS	PS		Fecal Coliform
	Great Pee Dee River	PD-028	REC	FS	PS		Fecal Coliform
03040201-09	Jeffries Creek	PD-255	AL	FS	PS		Dissolved Oxygen
		PD-256	AL	FS	NS		Dissolved Oxygen
		PD-035	REC	FS	NS		Fecal Coliform
03040201-11	Smith Swamp	PD-320 ^{TD}	AL	FS	PS		Dissolved Oxygen
		PD-187 ^{TD}	AL	FS	NS		Dissolved Oxygen
	Catfish Creek	PD-097	REC	FS	PS		Fecal Coliform
03040203-13	Bear Swamp	PD-368	REC	FS	PS		Fecal Coliform
03040203-14	Lumber River	PD-038	AL	FS	NS		Dissolved Oxygen
			REC	FS	PS		Fecal Coliform
03040204-04	Buck Swamp	PD-349	AL	FS	NS		Dissolved Oxygen
03040204-06	Lake Swamp	PD-176	REC	FS	PS		Fecal Coliform
03040204-08	Cedar Creek	PD-351	AL	FS	NS		Dissolved Oxygen
03040207-01	Sampit River	MD-074	AL	FS	PS		Dissolved Oxygen pH
03040207-02	AIWW	MD-080	AL	FS	PS		Dissolved Oxygen pH