

# **Water Quality Assessment Summary**

## ***Pee Dee Coastal Frontage Basin***

- Table 1. Fully Supported Sites – *Sites with No Impairments from 2006-2010***
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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.  $\geq 2$ ), 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.  $\geq 2$ ), 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 Pee Dee Coastal Frontage Basin 2006-2010**

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

<b>Watershed</b>	<b>Waterbody Name</b>	<b>Station #</b>	<b>Improving Trends</b>	<b>Other Trends</b>
<b>03040208-03</b>	Dunn Sound Creek	RT-08069		
	Little River	RO-07333		
		MD-162		Increasing pH
	AIWW	MD-125 <sup>TD</sup>	Decreasing Turbidity	Increasing BOD5, Total Nitrogen; Decreasing Dissolved Oxygen, pH
		MD-091 <sup>TD</sup>		
		MD-085 <sup>TD</sup>	Decreasing Turbidity, Total Phosphorus	
		MD-087 <sup>TD</sup>	Increasing Dissolved Oxygen	
	Main Creek	RT-09113		
		RT-07049		
	Parsonage Creek	MD-277	Decreasing Total Nitrogen	Decreasing pH
	Clambank Creek Tributary	RT-08081		

**Table 2. Impaired Sites in the Pee Dee Coastal Frontage 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

<b>Watershed</b>	<b>Waterbody Name</b>	<b>Station #</b>	<b>Use</b>	<b>Status</b>	<b>Water Quality Indicator</b>	<b>Improving Trends</b>	<b>Other Trends</b>
<b>03040208-03</b>	House Creek	MD-276	AL	NS	Dissolved Oxygen, Zinc	Decreasing Total Nitrogen	Increasing Turbidity, Fecal Coliform; Decreasing Dissolved Oxygen, pH

### Table 3. Changes in Use Support Status

#### *Pee Dee Coastal Frontage 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
03040208-03	AIWW	MD-125 <sup>TD</sup>	AL	NS	FS	Copper	
	Parsonage Creek	MD-277	AL	PS	FS	Dissolved Oxygen	

## Table 4. Changes in Use Support Status

### *Pee Dee Coastal Frontage 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
None							