

## 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 Catawba River Basin 2004-2008**

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

Watershed	Waterbody Name	Station #	Improving Trends	Other Trends
03050101-15	South Fork Crowders Creek	CW-192 TD		Increasing BOD <sub>5</sub> , Total Phosphorus
	Lake Wylie	CW-197	Decreasing Turbidity, Total Phosphorus, Total Nitrogen	
		CW-245		
		CW-198	Decreasing Turbidity, Total Phosphorus, Total Nitrogen	Increasing pH
		CW-201	Decreasing BOD <sub>5</sub> , Turbidity, Total Phosphorus, Fecal Coliform	
		RL-06433		
03050103-01	Sugar Creek	CW-013	Decreasing Turbidity, Fecal Coliform	Increasing Total Nitrogen
	Steele Creek	CW-011 TD		Increasing BOD <sub>5</sub> ; Decreasing Dissolved Oxygen
03050103-02	Sixmile Creek	CW-176 TD	Decreasing Total Phosphorus, Total Nitrogen, Fecal Coliform	Increasing BOD <sub>5</sub> ; Decreasing Dissolved Oxygen
03050103-03	Bear Creek	CW-151 TD	Decreasing Fecal Coliform	Increasing BOD <sub>5</sub> , Total Phosphorus; Decreasing Dissolved Oxygen
03050103-06	Catawba River	CW-014	Decreasing Total Nitrogen	Increasing BOD <sub>5</sub>
		CW-041		Increasing BOD <sub>5</sub> , Total Nitrogen, Total Suspended Solids, Fecal Coliform Bacteria
		CW-016	Increasing Dissolved Oxygen; Decreasing Total Phosphorus	Increasing BOD <sub>5</sub> , Total Nitrogen, pH
	Cedar Creek Reservoir	RL-07003		

**Table 2. Impaired Sites in the Catawba River Basin 2004-2008**

REC=Recreational; AL=Aquatic Life; DW= Drinking Water; PS=Partially Supported Standards; NS=Nonsupported Standards; \*=Station not evaluated for Recreational Support; TD=TMDL Developed; TI=TMDL Implementation; Trend Data 1994-2008

Watershed	Waterbody Name	Station #	Use	Status	Water Quality Indicator	Improving Trends	Other Trends
03050101-15	Lake Wylie	CW-027	REC	PS	Fecal Coliform	Decreasing BOD <sub>5</sub> , Total Phosphorus, Total Nitrogen	Decreasing Dissolved Oxygen
		CW-200	AL	NS	Total phosphorus, Chlorophyll-a		Increasing BOD <sub>5</sub>
		CW-230	AL	NS	Copper		Increasing BOD <sub>5</sub> , pH
	Crowders Creek	CW-152 <sup>TD</sup>	REC	NS	Fecal Coliform	Decreasing Total Phosphorus, Total Nitrogen	Increasing BOD <sub>5</sub> ; Decreasing Dissolved Oxygen
		CW-023 <sup>TD</sup>	REC	NS	Fecal Coliform	Decreasing Turbidity, Total Phosphorus, Total Nitrogen	Increasing pH
		CW-024 <sup>TD</sup>	REC	NS	Fecal Coliform		
	Brown Creek	CW-105 <sup>TD, TI</sup>	REC	NS	Fecal Coliform		Increasing BOD <sub>5</sub>
	Beaverdam Creek	RS-06020	AL	PS	Macroinvertebrates		
			REC	NS	Fecal Coliform		
		CW-153 <sup>TD, TI</sup>	REC	PS	Fecal Coliform		Increasing BOD <sub>5</sub> , Turbidity; Decreasing Dissolved Oxygen
	Allison Creek	CW-171 <sup>TD, TI</sup>	REC	NS	Fecal Coliform		Increasing BOD <sub>5</sub>
		CW-249 <sup>TD, TI</sup>	REC	NS	Fecal Coliform		Increasing BOD <sub>5</sub> , Total Phosphorus
	Calabash Branch	CW-134 <sup>TD, TI</sup>	REC	NS	Fecal Coliform	Decreasing Total Phosphorus, Fecal Coliform	Increasing Turbidity

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Watershed	Waterbody Name	Station #	Use	Status	Water Quality Indicator	Improving Trends	Other Trends
03050103-01	Sugar Creek	CW-247 <sup>TD</sup>	REC	NS	Fecal Coliform		Increasing Fecal Coliform
		CW-246*	AL	PS	Macroinvertebrates		
		CW-036	REC	NS	Fecal Coliform	Decreasing total phosphorus	Increasing BOD <sub>5</sub> , Total Nitrogen, pH
	McAlpine Creek	CW-226 <sup>TD</sup>	REC	NS	Fecal Coliform	Decreasing Turbidity, Total Nitrogen, Fecal Coliform	
		CW-064	REC	PS	Fecal Coliform	Decreasing Turbidity, Total Phosphorus, Fecal Coliform	Increasing BOD <sub>5</sub> , Total Nitrogen
	Steele Creek	CW-009 <sup>TD</sup>	REC	NS	Fecal Coliform		Increasing BOD <sub>5</sub> , Turbidity, Total Phosphorus; Decreasing pH
		CW-203 <sup>TD</sup>	REC	NS	Fecal Coliform		
		CW-681*	AL	PS	pH		
	03050103-02	Twelvemile Creek	CW-083 <sup>TD</sup>	REC	NS	Fecal Coliform	Decreasing Fecal Coliform
03050103-03	Cane Creek	CW-185 <sup>TD for REC</sup>	AL	PS	Dissolved Oxygen		Increasing BOD <sub>5</sub> , Total Phosphorus; Decreasing Dissolved Oxygen
			REC	PS	Fecal Coliform		
		CW-210*	AL	PS	pH		
		CW-017 <sup>TD for REC</sup>	AL	NS	Dissolved Oxygen, Copper	Decreasing Fecal Coliform	Increasing BOD <sub>5</sub> ; Decreasing pH
			REC	PS	Fecal Coliform		

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Watershed	Waterbody Name	Station #	Use	Status	Water Quality Indicator	Improving Trends	Other Trends
03050103-03 (continued)	Hannahs Creek	RS-05403 TD for REC	AL	NS	Dissolved Oxygen		
			REC	NS	Fecal Coliform		
	Gills Creek	RS-07043 TD for REC	AL	NS	Dissolved Oxygen		
			REC	NS	Fecal Coliform		
		CW-047 <sup>TD</sup>	REC	NS	Fecal Coliform		Increasing BOD <sub>5</sub> , Total Phosphorus
	Bear Creek	CW-131 <sup>TD</sup>	REC	NS	Fecal Coliform	Decreasing Fecal Coliform	
Rum Creek	CW-232	AL	NS	Dissolved Oxygen			
03050103-04	Fishing Creek	CW-029 TD, TI	REC	NS	Fecal Coliform		Increasing BOD <sub>5</sub> ; Decreasing Dissolved Oxygen
		CW-005 TD for REC, TI	AL	PS	Macroinvertebrates		Increasing Total Nitrogen, pH; Decreasing Dissolved Oxygen
			REC	PS	Fecal Coliform		
		CW-225 TD, TI	REC	NS	Fecal Coliform	Decreasing Fecal Coliform	Increasing BOD <sub>5</sub> , pH
		CW-224 TD, TI	REC	PS	Fecal Coliform		Increasing BOD <sub>5</sub>
		CW-654*	AL	PS	Macroinvertebrates		
		CW-008 TD, TI	REC	PS	Fecal Coliform	Decreasing Fecal Coliform	Increasing BOD <sub>5</sub> , Total Nitrogen
CW-233 TD, TI	REC	NS	Fecal Coliform		Increasing BOD <sub>5</sub> , pH		

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Watershed	Waterbody Name	Station #	Use	Status	Water Quality Indicator	Improving Trends	Other Trends
<b>03050103-04 (continued)</b>	Langham Branch	RS-07208 TD for REC	REC	NS	Fecal Coliform		
	Tools Fork	CW-212 TD, for REC, TI	AL	NS	Turbidity		Increasing pH
			REC	NS	Fecal Coliform		
	Wildcat Creek	CW-006 TD, TI	AL	NS	Dissolved Oxygen		Decreasing Dissolved Oxygen; Increasing BOD <sub>5</sub> , Total Phosphorus
		CW-096 TD, TI	REC	PS	Fecal Coliform		Decreasing Dissolved Oxygen; Increasing BOD <sub>5</sub> , pH
	Taylor Creek	CW-695	AL	PS	Macroinvertebrates		
	Lake Oliphant	CL-021	AL	NS	Total Phosphorus, pH		
	South Fork Fishing Creek	CW-007	AL	PS	Macroinvertebrates		
	Neelys Creek	CW-227 TD, TI	REC	NS	Fecal Coliform		
Tinkers Creek	CW-234 <sup>TD</sup>	REC	PS	Fecal Coliform		Increasing Total Phosphorus	
<b>03050103-05</b>	Grassy Run Branch	CW-088 <sup>TD</sup>	REC	NS	Fecal Coliform		Increasing BOD <sub>5</sub> , Turbidity
	Rocky Creek	CW-002 TD, TI	REC	PS	Fecal Coliform	Decreasing Fecal Coliform	
		CW-236 TD, TI	REC	PS	Fecal Coliform		Increasing BOD <sub>5</sub>

**Table 2. Impaired Sites in the Catawba River Basin 2004-2008**

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Watershed	Waterbody Name	Station #	Use	Status	Water Quality Indicator	Improving Trends	Other Trends
03050103-05 (continued)	Beaverdam Creek	RS-06171 TD for REC	AL	PS	Macroinvertebrates		
			REC	NS	Fecal Coliform		
	Rocky Creek Arm of Cedar Creek Res.	CW-175 TD, TI (REC)	AL	NS	Total Nitrogen, Total Phosphorus, Dissolved Oxygen	Decreasing Fecal Coliform	Decreasing Dissolved Oxygen; Increasing pH
			REC	PS	Fecal Coliform		
03050103-06	Hidden Creek	CW-221 TD, TI	REC	NS	Fecal Coliform		Increasing BOD <sub>5</sub> , Turbidity
	Sixmile Creek	RS-06176	AL	PS	Macroinvertebrates		
	Waxhaw Creek	CW-145 TD for REC	AL	NS	Copper		Increasing BOD <sub>5</sub>
			REC	NS	Fecal Coliform		
	Fishing Creek Reservoir	CW-016F	AL	NS	Total Nitrogen, Total Phosphorus	Decreasing Turbidity, Fecal Coliform	Increasing Total Nitrogen
		CW-057	AL	NS	Total Nitrogen, Total Phosphorus, pH	Decreasing Turbidity, Total Phosphorus, Fecal Coliform	Increasing BOD <sub>5</sub> , Total Nitrogen, pH
	Great Falls Reservoir	RL-05414	AL	NS	Total Phosphorus		
		RL-08062	AL	NS	Total Nitrogen, Total Phosphorus		
	Cedar Creek Reservoir	RI-04379	AL	NS	Total Phosphorus		

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Watershed	Waterbody Name	Station #	Use	Status	Water Quality Indicator	Improving Trends	Other Trends
<b>03050103-06 (continued)</b>	Cedar Creek Res. (continued)	RL-06431	AL	NS	Total Phosphorus		
		RL-01007	AL	NS	Total Phosphorus		
		RL-04375	AL	NS	Total Phosphorus		
		RL-05391	AL	NS	Total Phosphorus		
		RL-06443	AL	PS	pH		
		RL-06429	AL	NS	Total Phosphorus		
		CW-174 <sup>TD</sup>	AL	NS	Total Phosphorus		Decreasing Dissolved Oxygen; Increasing BOD <sub>5</sub>
		RL-08046	AL	NS	Total Nitrogen, Total Phosphorus		
		RL-05416	AL	NS	Total Phosphorus		
	CW-033	AL	NS	Total Phosphorus			
	Camp Creek	CW-235 <sup>TD</sup>	REC	NS	Fecal Coliform		



**Table 3. Changes in Use Support Status**

***Catawba River Basin Sites that Improved from 2004 to 2008***

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	2008	2004	2008
03050101-15	Lake Wylie	CW-197	AL	NS	FS	Copper	
	South Fork Crowders Creek	CW-192	REC	NS	FS	Fecal Coliform	
	Crowders Creek	CW-152	AL	NS	FS	Copper	
		CW-024	AL	PS	FS	Macroinvertebrates	
	Brown Creek	CW-105	AL	NS	FS	Turbidity	
03050103-01	Sugar Creek	CW-247	AL	NS	FS	Cadmium, Copper	
		CW-013	REC	NS	FS	Fecal Coliform	
		CW-036	AL	NS	FS	Copper	
	McAlpine Creek	CW-064	REC	NS	PS	Fecal Coliform	Fecal Coliform
	Steele Creek	CW-011	REC	NS	FS	Fecal Coliform	
03050103-02	Sixmile Creek	CW-176	REC	NS	FS	Fecal Coliform	
	Twelvemile Creek	CW-083	AL	NS	FS	Turbidity, Copper	
03050103-03	Cane Creek	CW-185	AL	NS	PS	Dissolved Oxygen	Dissolved Oxygen
	Bear Creek	CW-151	AL	NS	FS	Dissolved Oxygen	
			REC	PS	FS	Fecal Coliform	
		CW-131	AL	NS	FS	Dissolved Oxygen	
Rum Creek	CW-232	REC	PS	FS	Fecal Coliform		
03050103-04	Fishing Creek	CW-005	REC	NS	PS	Fecal Coliform	Fecal Coliform
		CW-225	AL	NS	FS	Copper	
		CW-224	REC	NS	PS	Fecal Coliform	Fecal Coliform
	Wildcat Creek	CW-006	REC	NS	PS	Fecal Coliform	Fecal Coliform
		CW-096	AL	NS	FS	Turbidity	
			REC	NS	PS	Fecal Coliform	Fecal Coliform
03050103-05	Grassy Run Branch	CW-088	AL	NS	FS	Dissolved Oxygen	
	Rocky Creek	CW-002	REC	NS	PS	Fecal Coliform	Fecal Coliform

***Catawba River Basin Sites that Improved from 2004 to 2008***

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	2008	2004	2008
<b>03050103-05 (continued)</b>	Rocky Creek Arm of Cedar Creek Reservoir	CW-175	REC	NS	PS	Fecal Coliform	Fecal Coliform
<b>03050103-06</b>	Catawba River	CW-014	REC	PS	FS	Fecal Coliform	
		CW-041	AL	NS	FS	Copper	
	Cedar Creek Reservoir	CW-174	REC	PS	FS	Fecal Coliform	

## Table 4. Changes in Use Support Status

### *Catawba River Basin Sites that Degraded from 2004 to 2008*

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	2008	2004	2008
03050101-15	Lake Wylie	CW-230	AL	FS	NS		Copper
		CW-200	AL	FS	NS		Total Phosphorus, Chlorophyll-a
	Crowders Creek	CW-152	REC	PS	NS	Fecal Coliform	Fecal Coliform
		CW-024	REC	PS	NS	Fecal Coliform	Fecal Coliform
03050103-01	Sugar Creek	CW-247	REC	PS	NS	Fecal Coliform	Fecal Coliform
03050103-02	Twelvemile Creek	CW-083	REC	PS	NS	Fecal Coliform	Fecal Coliform
03050103-04	Fishing Creek	CW-233	REC	PS	NS	Fecal Coliform	Fecal Coliform
	Neelys Creek	CW-227	REC	PS	NS	Fecal Coliform	Fecal Coliform
	Grannies Quarter Creek	CW-237	REC	PS	NS	Fecal Coliform	Fecal Coliform
	Sawneys Creek	CW-079	REC	PS	NS	Fecal Coliform	Fecal Coliform