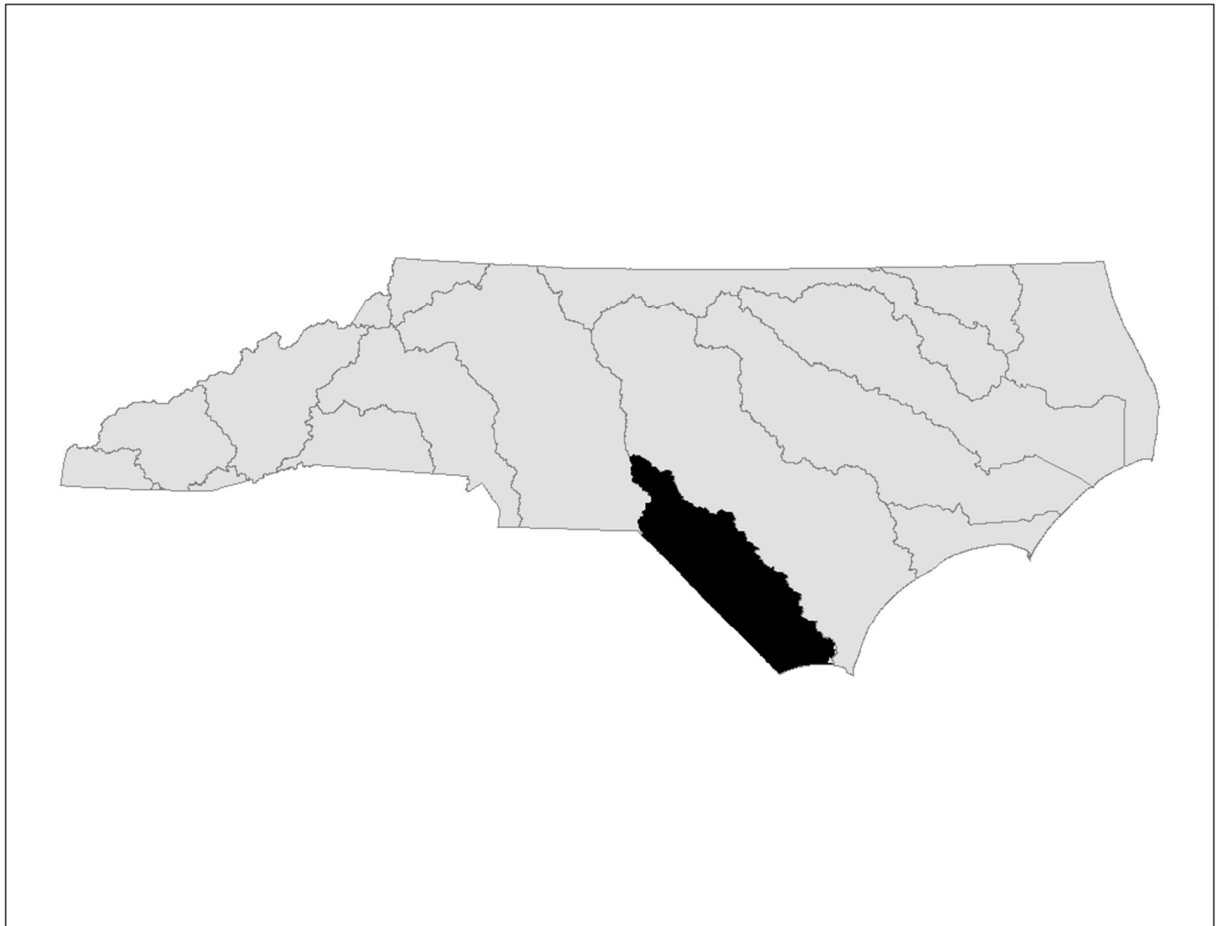


**Lumber River Basin
Basinwide Assessment Report
Whole Effluent Toxicity Program
2007-2011**



The Division of Water Quality's Whole Effluent Toxicity Monitoring Program

Acute and/or chronic toxicity tests are used to determine toxicity of discharges to sensitive aquatic species (usually fathead minnow, *Pimephales promelas* or the water flea, *Ceriodaphnia dubia*). Results of these tests have been shown by researchers to be predictive of a discharge impacts to receiving stream populations.

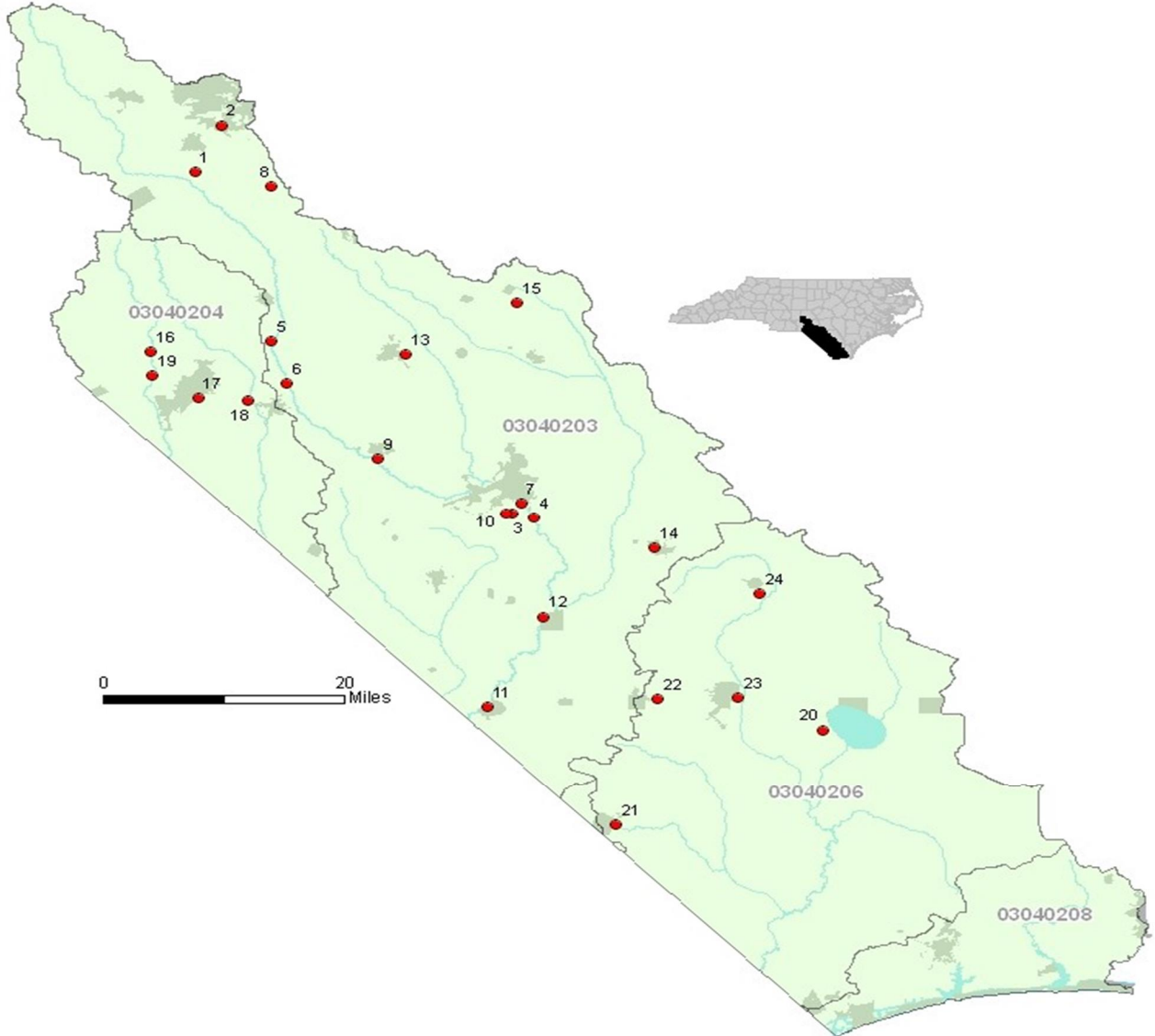
Many facilities are required to monitor whole effluent toxicity (WET) by their NPDES permit. Facilities without monitoring requirements may have their effluents evaluated for toxicity by DWQ's Aquatic Toxicology Laboratory. If toxicity is detected, DWQ may require aquatic toxicity testing upon permit renewal.

DWQ's Aquatic Toxicology Unit maintains a compliance summary for all facilities required to perform tests and provides a monthly update of this information to Regional Offices and DWQ administration. Ambient toxicity tests can be used to evaluate stream water quality relative to other stream sites and/or a point source discharge. All facilities are compliant for the 5-year basin cycle for the period of 2006-2011.

WET Monitoring in the Lumber River Basin – 2006-2011

Twenty-Four facility permits in the Lumber River basin currently require WET monitoring (Figure 1). Twenty-Three facility permits have a WET limit while one requires monitoring without a limit.

Figure 1. Lumber River basin facilities required to conduct whole effluent toxicity testing



Key

1	Moore County WWTP	7	Lumberton WWTP	13	Red Springs WWTP	19	Springs Industries
2	Aberdeen Pesticide D	8	Dept of Corrections(McCain)	14	Bladenboro WWTP	20	Lake Waccamaw WWTP
3	Lumberton Power, LLC	9	Pembroke WWTP	15	Parkton WWTP	21	Tabor City
4	CP&L-Weatherspoon	10	Alamac - Lumberton WWTP	16	Laurinburg Maxton Airport	22	Chadbourm WWTP
5	WestPoint Stevens	11	Fair Bluff WWTP	17	Laurinburg	23	Whiteville . Whitemarsh WWTP
6	Laurinburg-Maxton Ai	12	Fairmont Regional WW	18	Pilkington N A, Inc.	24	Clarkton WWTP