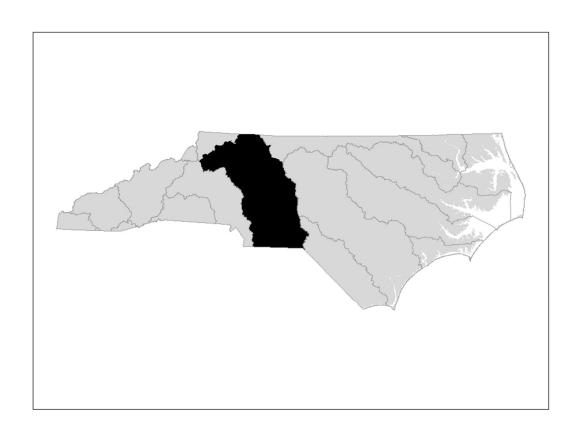
Yadkin-Pee Dee River Basin Basinwide Assessment Report Whole Effluent Toxicity Program 2007-2011



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

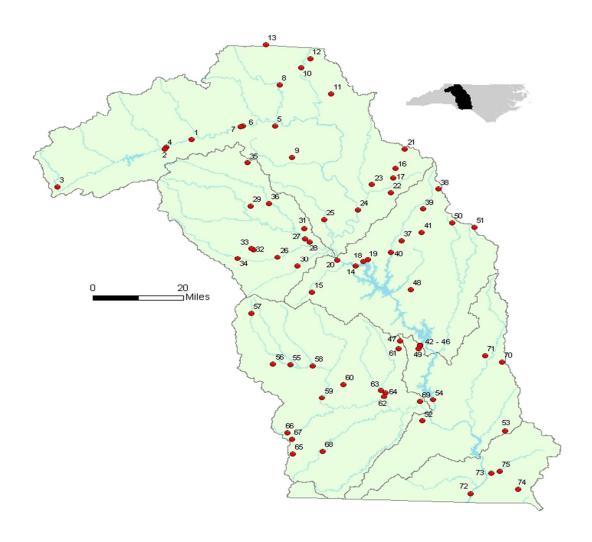
Acute and/or chronic toxicity tests are used to determine toxicity of discharges to sensitive aquatic species (usually fathead minnow, *Pimephales promelas* or the water flea, *Ceriodaphnia dubia*). Results of these tests have been shown by researchers to be predictive of a discharge impacts to receiving 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 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 complaint for the 5-year basin cycle for the period of 2006-2011.

WET Monitoring in the Yadkin-Pee Dee River Basin 2007-2011

Seventy-five facility permits in the Yadkin-Pee Dee River basin currently require WET monitoring (Figure 1). Seventy-four facility permits have a WET limit while one requires monitoring without a limit.



Key

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	16	Flakt Products, Inc	31	Mocksville WWTP Bear Creek	46	Alcoa-013	61	Albemarle WWTP
North Wilkesboro WWTP	17	Lucent Technologies, Inc	32	Southern States Coop./S.S. Fertilizer			62	Aquadale Quarry/002
Omni Supply Inc.	18	Norfolk Southern Railway Co	33	Statesville Fourth Creek WWTP	48	Denton WWTP	63	Oakboro WWTP-001
	19	PPG Industries Lexington Plant	34	Statesville Third Creek WWTP			64	Oakboro WWTP-002
Boonville WWTP	20	Salisbury-Rowan Regional WWTP	35	Transportation, NC Dept of-Yadkin	50	Furniture Illustrators, Inc.	65	Alvac-Monroe Plant
Elkin WWTP	21	Scarlett Acres	36	Tyson Foods Inc-Harmony Division	51	Trinity American Corporation	66	Crokked Creek WWTP #2
	22	Three R's MHP	37	Centerclair Nursing Home			67	Equipment & Supply, Inc.
Wayne Farms-Dobson Plant	23	Winston-Salem Archie Elledge WWTP	38	High Point Care Center	53	Ellerbe WWTP	68	Monroe WWTP
Yadkinville WWTP	24	Winston-Salem Lower Muddy Cr	39	High Point Westside WWTP	54	Mt. Gilead WWTP	69	Norwood WWTP
Mt. Airy WWTP	25	Mocksville WWTP Dutchman's Cr	40	Lexington Regional WWTP	55	Chemical Specialties, Inc.	70	Biscoe WWTP
Pilot Mountain WWTP	26	Cleveland WWTP	41	Thomasville-Hamby Creek WWTP	56	CMUD-Mallard Cr. WWTP	71	Tru WWTP
	27	CNA Holdings / Needmore Rd Landfill	42	Alcoa-002			72	Anson Co. WWTP
	28	Cooleemee WWTP-Town of Mocksville	43	Alcoa-005	58	Concord Rocky River WWTP	73	Burlington industries WWTP
Duke Power-Buck Steam	29	Harmony WWTP	44	Alcoa-011			74	Hamlet WWTP
Fieldcrest Mills	30	INVISTA S.a.r.l Salisbury	45	Alcoa-012	60	Dixie Yarns, Inc	75	Rockingham WWTP
	Yadkinville WWTP Mt. Airy WWTP Pilot Mountain WWTP Surry County-Flat Rock Elem. School	WWTP North Wilkesboro WWTP 17	WWTP North Wilkesboro WWTP 17 Lucent Technologies, Inc Omni Supply Inc. 18 Norfolk Southern Railway Co Wilkesboro Cub Creek WWTP 19 PPG Industries Lexington Plant WWTP 20 Salisbury-Rowan Regional WWTP Elkin WWTP 21 Scarlett Acres Interface Fabrics Group, Elkin WWTP Wayne Farms-Dobson Plant Winston-Salem Archie Elledge WWTP Yadkinville WWTP 24 Winston-Salem Lower Muddy Cr Mt. Airy WWTP 25 Mocksville WWTP Dutchman's Cr Pilot Mountain WWTP Surry County-Flat Rock Elem. School Transportation, NC Dept of - Surry Duke Power-Buck Steam 29 Harmony WWTP	WWTP	WWTP North Wilkesboro WWTP 17 Lucent Technologies, Inc 32 Southern States Coop./S.S. Fertilizer Omni Supply Inc. 18 Norfolk Southern Railway Co 33 Statesville Fourth Creek WWTP Wilkesboro Cub Creek 19 PPG Industries Lexington Plant 34 Statesville Third Creek WWTP WWTP Boonville WWTP 20 Salisbury-Rowan Regional WWTP 35 Transportation, NC Dept of-Yadkin Elkin WWTP 21 Scarlett Acres 36 Tyson Foods Inc-Harmony Division Interface Fabrics Group, Elkin WWTP Wayne Farms-Dobson Plant 23 Winston-Salem Archie Elledge WWTP Wayne Farms-Dobson Plant 24 Winston-Salem Lower Muddy Cr Mt. Airy WWTP 25 Mocksville WWTP Uchman's Cr Valkinville WWTP 26 Cleveland WWTP 37 Lexington Regional WWTP Surry County-Flat Rock Elem. School Transportation, NC Dept of - Surry Buck Older Alloca-005 Mocksville WTP WTP 44 Alcoa-011	WWTP North Wilkesboro WWTP 17 Lucent Technologies, Inc 32 Southern States Coop./S.S. 47 Fertilizer Omni Supply Inc. 18 Norfolk Southern Railway Co 33 Statesville Fourth Creek WWTP 48 WWTP WWTP Boonville WWTP 20 Salisbury-Rowan Regional WWTP 35 Transportation, NC Dept of-Yadkin 50 Elkin WWTP 21 Scarlett Acres 36 Tyson Foods Inc-Harmony 51 Division Interface Fabrics Group, Elkin WWTP Wayne Farms-Dobson Plant 33 Winston-Salem Archie Elledge WWTP Wayne Farms-Dobson Plant 43 Winston-Salem Lower Muddy Cr Mt. Airy WWTP 45 Mocksville WWTP 46 Cleveland WWTP 47 Winston-Salem Lower Muddy Cr 48 Wirston-Salem Lower Muddy Cr 59 Iloth Mountain WWTP 50 Cleveland WWTP 51 Transportation, NC Dept of Surry County-Flat Rock Elem. School 50 Cleveland WWTP 51 Transportation, NC Dept of Surry 51 Mocksville 52 Cooleemee WWTP-Town of Mocksville 53 Mocksville 54 Alcoa-005 55 Mocksville 55 Mocksville 56 Mocksville 57 Larmony WWTP 58 Mocksville 59 Harmony WWTP 59 Mockapa Alcoa-001 50 Surry 50 Alcoa-001 50 Alcoa-001 50 Surry 50 Alcoa-001 50 Alcoa-001 50 Surry 50 Alcoa-001 51 Alcoa-001 51 Alcoa-001 51 Alcoa-0	WWTP	WWTP North Wilkesboro WWTP 17 Lucent Technologies, Inc 32 Southern States Coop./S.S. 47 Dawson International Prop-Albemarle Dmni Supply Inc. 18 Norfolk Southern Railway Co 33 Statesville Fourth Creek WWTP 48 Denton WWTP 63 Wilkesboro Cub Creek 19 PPG Industries Lexington Plant WWTP 20 Salisbury-Rowan Regional WWTP 35 Transportation, NC Dept of-Yadkin 50 Furniture Illustrators, Inc. 65 Elkin WWTP 21 Scarlett Acres 36 Tyson Foods Inc-Harmony Division S1 Trinity American Corporation 66 Interface Fabrics Group, Elkin WWTP Wayne Farms-Dobson Plant 23 Winston-Salem Archie Elledge WWTP Winston-Salem Lower Muddy Cr Mt. Airy WWTP 25 Mocksville WWTP 01 Mondatin WWTP 26 Cleveland WWTP S1 Trinity American Corporation Mt. Airy WWTP S2 Mocksville WWTP 01 Mondatin WWTP S3 High Point Care Center S4 Mt. Gilead WWTP S5 Chemical Specialties, Inc. MTP Surry County-Flat Rock Elem. School Transportation, NC Dept of- Surry Albemarle Daven WWTP Albemarle Daven WTP Albemarle Denton WWTP Albemarle Daven WTP Albemarle Denton WWTP Albemarle Dento