



LAKE WYLIE
MARINE COMMISSION





MISSION STATEMENT

**TO PROMOTE PUBLIC POLICIES AND
SUPPORT REGULATIONS FOR THE
PRESERVATION OF LAKE WYLIE AND ITS
WILDLIFE AND FOR THE EDUCATION AND
SAFETY OF THE CITIZENS WHO USE THIS
BEAUTIFUL NATURAL RESOURCE**

AREAS THE LWMC ADDRESSES

- SAFETY
- POLLUTION / WATER QUALITY & CAPACITY
- SEDIMENTATION / EROSION CONTROL
- LAWS AND LAW ENFORCEMENT
- EDUCATION
- ENVIRONMENT

SAFETY

- **DANGER BUOYS** - STATES APPROVE AND PLACE
- NO-WAKE BUOYS
 - LWMC **SCREENS** APPLICATIONS; STATES APPROVE
 - LWMC **PLACES AND MAINTAINS** NC NO-WAKE BUOYS



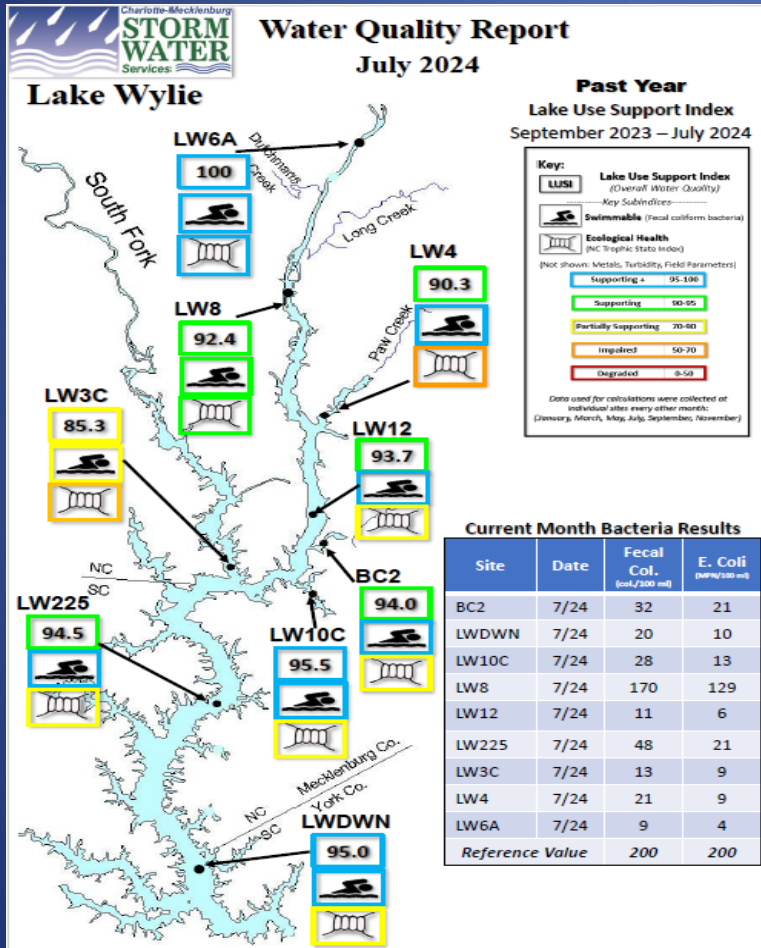
POLLUTION - RIVERSWEEP

- ORGANIZED BY THE CATAWBA RIVERKEEPER AND LWMC
- SOME SITES CANCELED BECAUSE OF HELENE
- NO BOATS, LAND-BASED CLEANUP ONLY
- BUSINESSES DONATE GLOVES, BOTTLED WATER, GRABBERS
- COUNTIES PROVIDE DUMPSTERS & TRASH BAGS

WATER QUALITY - SWIM GUIDES

- SPONSORED 2 SWIM GUIDES ON LAKE WYLIE
- CATAWBA RIVERKEEPER PROGRAM
 - SAMPLED FOR E-COLI ON THURSDAYS
 - RESULTS ON WEBSITE APP ON FRIDAYS
 - TO ADVISE WEEKEND SWIMMERS
- OVER 160,000 HITS IN THE 2024 SEASON
 - LAKE WYLIE — 14,000 HITS

WATER QUALITY - DATA



Lake Wylie

- Routine lake monitoring for July conducted on 7/24/24
- Average water temperature on day of sampling = 85.5 F
- Lake level on day of monitoring = 97.8 ft (target = 97.0 ft)
- Average water clarity on day of monitoring = 1.26 m (4.1 ft)

Routine Monitoring Sites	BC2	Brown's Cove
	LWDWN	Main Channel @ Windjammer Point
	LW10C	Wither's Cove
	LW8	Main channel at Interstate 85 bridge
	LW12	Main channel, downstream of Paw Creek
	LW225	Main channel at Buster Boyd Bridge (Hwy 49)
	LW3C	South Fork Catawba River (at Hwy 273 bridge)
	LW4	Paw Creek Cove
	LW6A	Headwaters, upstream of Dutchman's Creek
Routine Lake Monitoring Efforts (every other month)		
Physical Parameters		Wet Chemistry Analyses
<ul style="list-style-type: none"> • Secchi Depth in meters (water clarity) • Temperature (°C) • Specific Conductivity (µS) • Dissolved Oxygen (% and mg/l) • pH • Turbidity (NTU) • Chlorophyll A (RFU) 		<ul style="list-style-type: none"> • Fecal Coliform Bacteria (CFU/100ml) • E.coli Bacteria (MPN/100ml) • Turbidity (NTU) • Nitrate/Nitrite (mg/l) • Ammonia (mg/l) • Total Phosphorus (mg/l) • Total Kjeldahl Nitrogen (mg/l) • Chlorophyll A (µg/l)

Fish Consumption Advisories
Issued by the NC Div. of Public
Health to protect citizens from
exposure to contaminants like
PCBs and mercury.



Largemouth Bass

For more information: stormwater.charmeck.org

Questions/Comments/More information?
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INTER-BASIN TRANSFER (IBT)

- LWMC SUGGESTS SPECIFIC CHARLOTTE WATER PLANS TO REDUCE WATER CONSUMPTION
 - LIMIT SEDIMENTATION
 - CONTROL/STORE RAINWATER RUNOFF
 - WITH DUKE, DREDGE TARGETED SHALLOW AREAS TO INCREASE CAPACITY
 - IMPLEMENT CORRECTIVE ACTIONS TO PREVENT RECURRENCE OF IBTs

SEDIMENTATION

**SEDIMENTATION
IS A CANCER ON
THE LAKE**



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SEDIMENTATION – EROSION CONTROL

- MECKLENBURG COUNTY - STRONGEST EROSION AND STORMWATER CONTROL MEASURES (E&SCMs)
- YORK COUNTY - UPGRADED ORDINANCES IN 2019
- GASTON COUNTY
 - SITE PLAN APPROVED BEFORE GRADING
 - NO PERMITS BEFORE REZONING
 - PHASE CLEARING OF SITES
 - BUT FEW SPECIFIC E&SCMs IN ORDINANCES
- WITH CATAWBA RIVERKEEPER, PURSUING ENHANCED E&SCMS IN MUNICIPALITY ORDINANCES

LAW ENFORCEMENT

- LIFE JACKETS & CHEM LIGHTS ON ALL POLICE BOATS
- STABILIZING BINOCULARS TO YCSO AND CMPD
- GASTON COUNTY POLICE BOAT HOUSE- **NEW LOCATION**



CHARTER BOAT AND RENTAL VESSEL REGULATION WITHDRAWN

- CONFLICT WITH NORTH CAROLINA CONSTITUTION
 - THE GENERAL ASSEMBLY SHALL NOT ENACT ANY PRIVATE, SPECIAL ACT, OR LOCAL RESOLUTION REGULATING TRADE
 - ANY PRIVATE, SPECIAL ACT, OR LOCAL RESOLUTION ENACTED IN VIOLATION OF THE PROVISIONS OF THIS SECTION SHALL BE VOID.
- PURSUING OTHER SAFETY MEASURES

INSURANCE REGULATION

- PERSONAL WATERCRAFT INSURANCE REQUIREMENTS ARE INCONSISTENT BETWEEN NORTH CAROLINA AND SOUTH CAROLINA
- NC – OWNER MUST HAVE COMMERCIAL LIABILITY INSURANCE AND PROVIDE SAME TO RENTEE
- SC – BOTH OWNER AND RENTEE ARE LIABLE; NO INSURANCE REQUIREMENT
- ALIGN THE STATE LAWS FOR LAKE WYLIE



EDUCATION

- CATAWBA-WATEREE WATER MANAGEMENT GROUP'S CITIZEN'S WATER ACADEMY
- MONTHLY NEWSLETTER
- MONTHLY MEETINGS (EXCEPT DECEMBER)
- MID-ATLANTIC BOAT SHOW
- RIVERFEST IN BELMONT
- FORK FEST IN McADENVILLE
- *LAKEWYLIEMARINECOMMISSION.COM*

ENVIRONMENT– CLEAN MARINAS

SOUTH CAROLINA ONLY

- SEWAGE HANDLING
- STORMWATER MANAGEMENT
- BOAT MAINTENANCE
- SOLID WASTE MANAGEMENT
- SAFETY AND EMERGENCY PLANNING
- OIL & OTHER HAZARDOUS WASTE HANDLING



ENVIRONMENT - HYDRILLA CONTROL

Carp and Chemicals



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Photo by
Sandy Dupuy

ENVIRONMENT - ALLIGATOR WEED



- THRIPS
- MANUAL REMOVAL

ENVIRONMMMENT - HURRICANE HELENE

- MASSIVE CLEANUP NEEDED BASIN WIDE
- DUKE CONVENED PARTIES OCTOBER 7
 - LWMC, LNWC, NCWRSC, CATAWBA RIVERKEEPER, NORTH CAROLINA WILDLIFE FEDERATION
 - LONG TERM PROJECT – WILL MEET WEEKLY
- DUMPSTERS, BARGES, AND CRANES
- VOLUNTEER AND CONTRACTED WORK
- DEADHEADS, IMPLANTED TREES IN LAKE WYLIE
- SEDIMENTATION – PHOSPHORUS

ENVIRONMENT - LYNGBYA (*Microseria wollei*)

- INVASIVE SPECIES IF CYANOBACTERIA
- LYNGBYA APPEARS AS ALGAL “MATS” RISING FROM THE LAKE BED
- NEW TO THE CATAWBA RIVER BASIN
 - LAKE NORMAN - 10 ACRES
 - MT. ISLAND LAKE – 20 ACRES
 - LAKE WYLIE - 4.5 ACRES
- LAKE GASTON -1200 ACRES



ENVIRONMENT - LYNGBYA

- DON'T TOUCH THE MATS
- CAN CAUSE SICKNESS IN CHILDREN AND PETS.
- DON'T WATER SKI OR JET SKI OVER ALGAL MATS
- DON'T USE SCUMMY WATER FOR CLEANING OF IRRIGATION.

ENVIRONMENT - LYNGBYA

- NORTH CAROLINA STATE UNIVERSITY AQUATIC PLANT MANAGEMENT PROGRAM
 - RESEARCHING LAKE GASTON LYNGBYA PROBLEM
 - CHEMICAL TREATMENT IS EFFECTIVE

APRIL TO SEPTEMBER TREATMENTS; 3 TO 4 YEARS
- COST TO TREAT LAKE GASTON
 - \$718K IN 2021
 - 2024 ESTIMATED TO BE \$1.3M
- LAKE NORMAN - \$60K
- LAKE WYLIE - \$31K

ENVIRONMENT - LYNGBYA

- LYNGBYA ADDED TO THE LIST FOR NC FUNDING,
BUT FUNDING IS FOR LAKES THROUGHOUT NC
- STEERING COMMITTEE MEETING NOW
- - DUKE, LWMC, LNMC, CHARLOTTE WATER,
NORTH CAROLINA STATE UNIVERSITY
 - CONVENE LYNGBYA CONFERENCE IN JANUARY
 - PRESENT DATA ON EFFICACY OF TREATMENTS
 - HURRICANE HELENE'S EFFECT ON LYNGBYA
 - **SPECIFIC FUNDING NEEDED TO COMBAT LYGNBYA**





**We Protect, Preserve, and Promote
Lake Wylie as a Clean and Safe Recreational
Waterway**

**For more information, visit
LakeWylieMarineCommission.com**