

Alabama Water Watch

ELI Participatory Science and
Planning for External Data

June 4, 2024

Overview

- WQ Branch
- WQ Monitoring
- Data and Information
- What is AWW?
- AWW and ADEM



Mobile

WQ Branch

- WQ Standards
 - Designated Uses
 - Narrative and Numeric Criteria
 - Antidegradation
- Listing and Assessment
 - 303(d) List
 - Integrated Report
- TMDLs



WQ Monitoring

- Field parameters (pH, Temperature, etc.)
- Conventional parameters (Nutrients, CBOD₅, etc.)
- Bacteriological parameters (E. coli, Enterococci)
- Toxics (Metals, etc.)
- Habitat assessments
- Fish Tissue
- Fish IBI
- Macroinvertebrates
- Periphyton
- Diurnal studies
- Flows



Data and information

- USGS
- USEPA
- TVA
- NOAA
- USFWS
- Mobile Bay NEP
- Dauphin Island Sea Lab
- GSA
- NRCS
- Soil and Water Cons.
- ADCNR
- ACWP
- ADPH
- Citizen/watershed groups

Data and information

- Data and information from other agencies, industry or industry groups, neighboring states, and watershed groups will be considered and evaluated
 - Must meet min. data requirements and comply with QA/QC requirements
 - Assists the Dept. in making use support determinations and focus WQ monitoring priorities from year to year.

Data and information

- Section 4.9 of methodology details QA/QC
- Data submitted should include methods used to collect data
 - Study plans
 - SOPs
 - Documentation data was or was not collected consistent with requirements in methodology

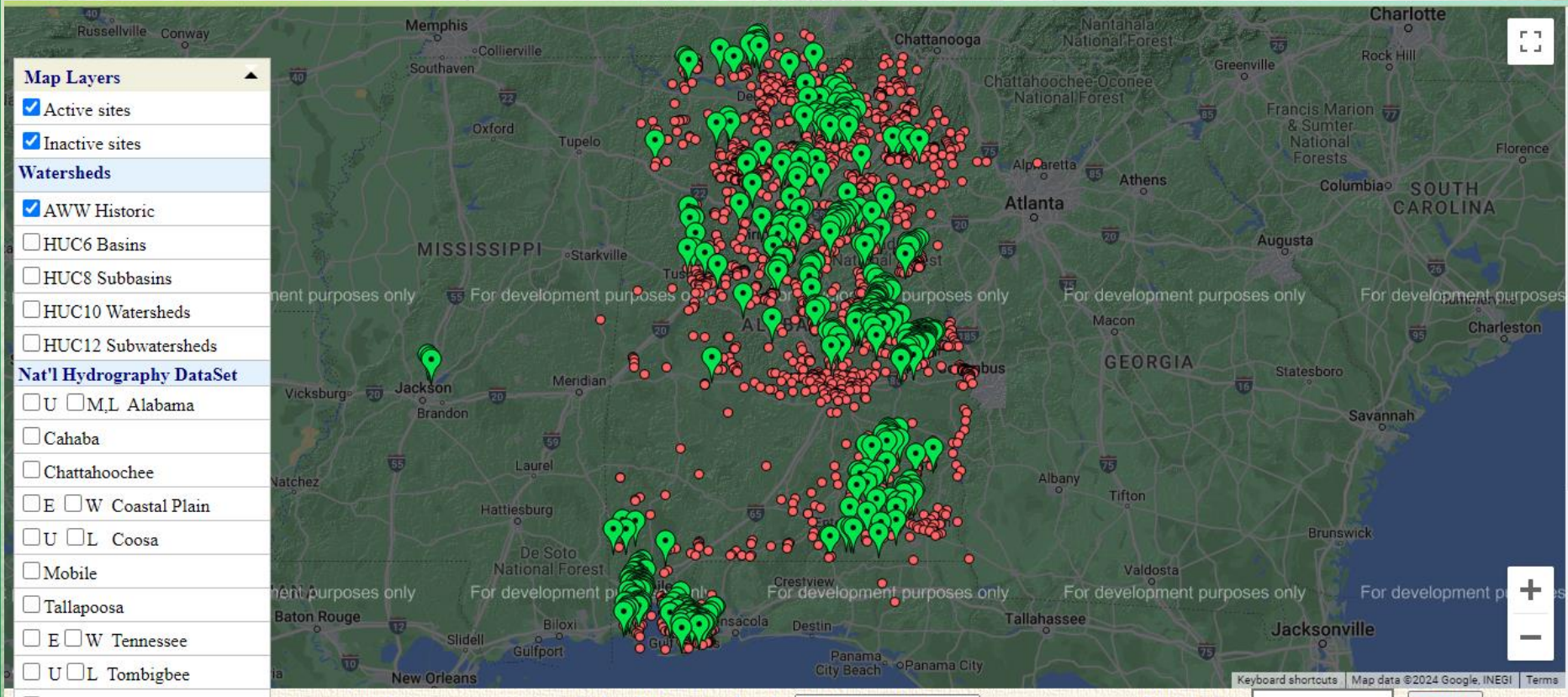
What is AWW?

- A citizen volunteer, water quality monitoring program
- Established in 1992
- Use EPA-approved monitoring plans
- Train citizens to monitor conditions in local waterbodies
- Citizen monitoring, university-based program, and non-profit association

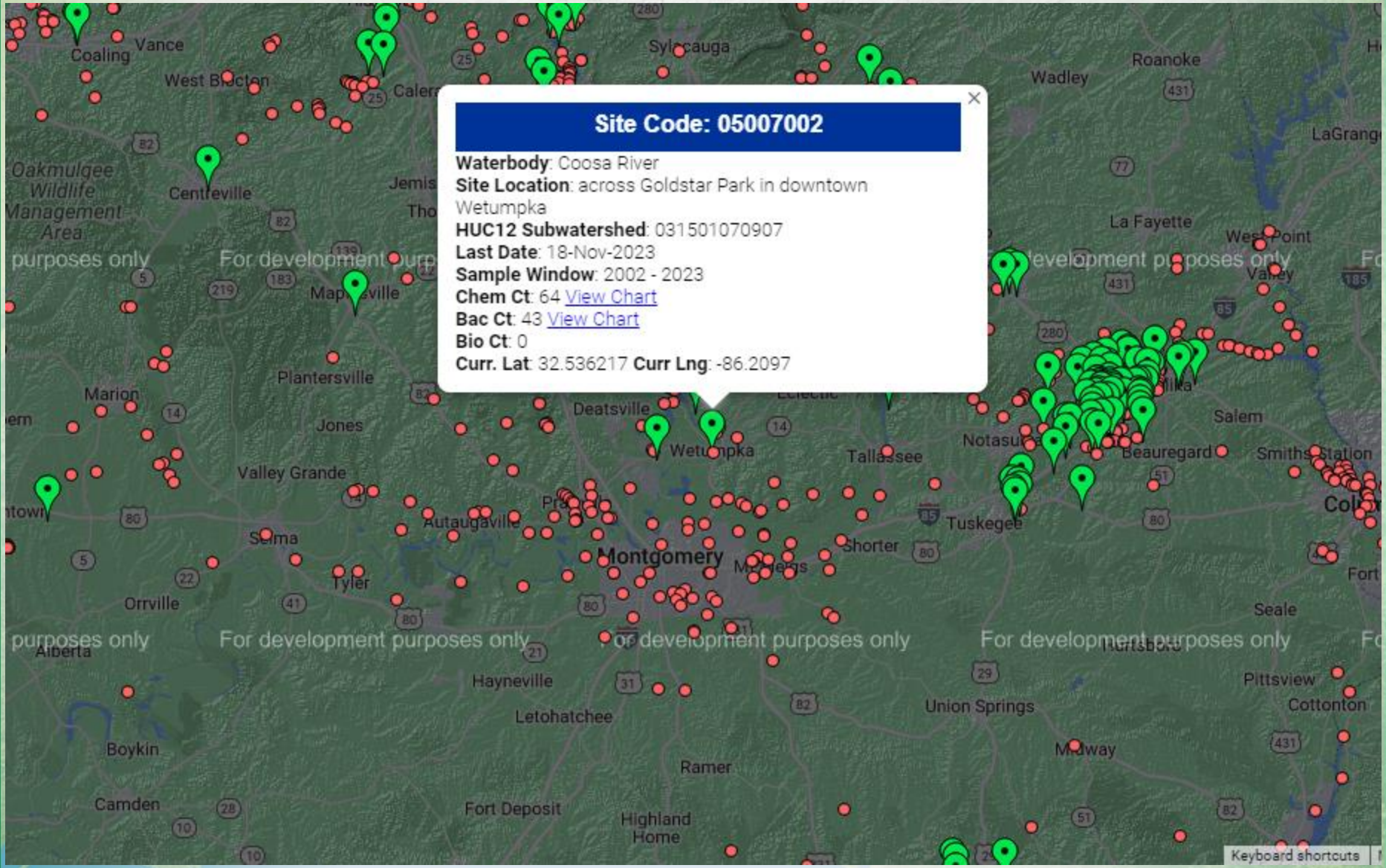
AWW Support

- “First alert” for ADEM
- Focus WQ monitoring priorities
- Additional WQ data
- Data requested every year
- Request sampling of 4a waters

AWW Sites



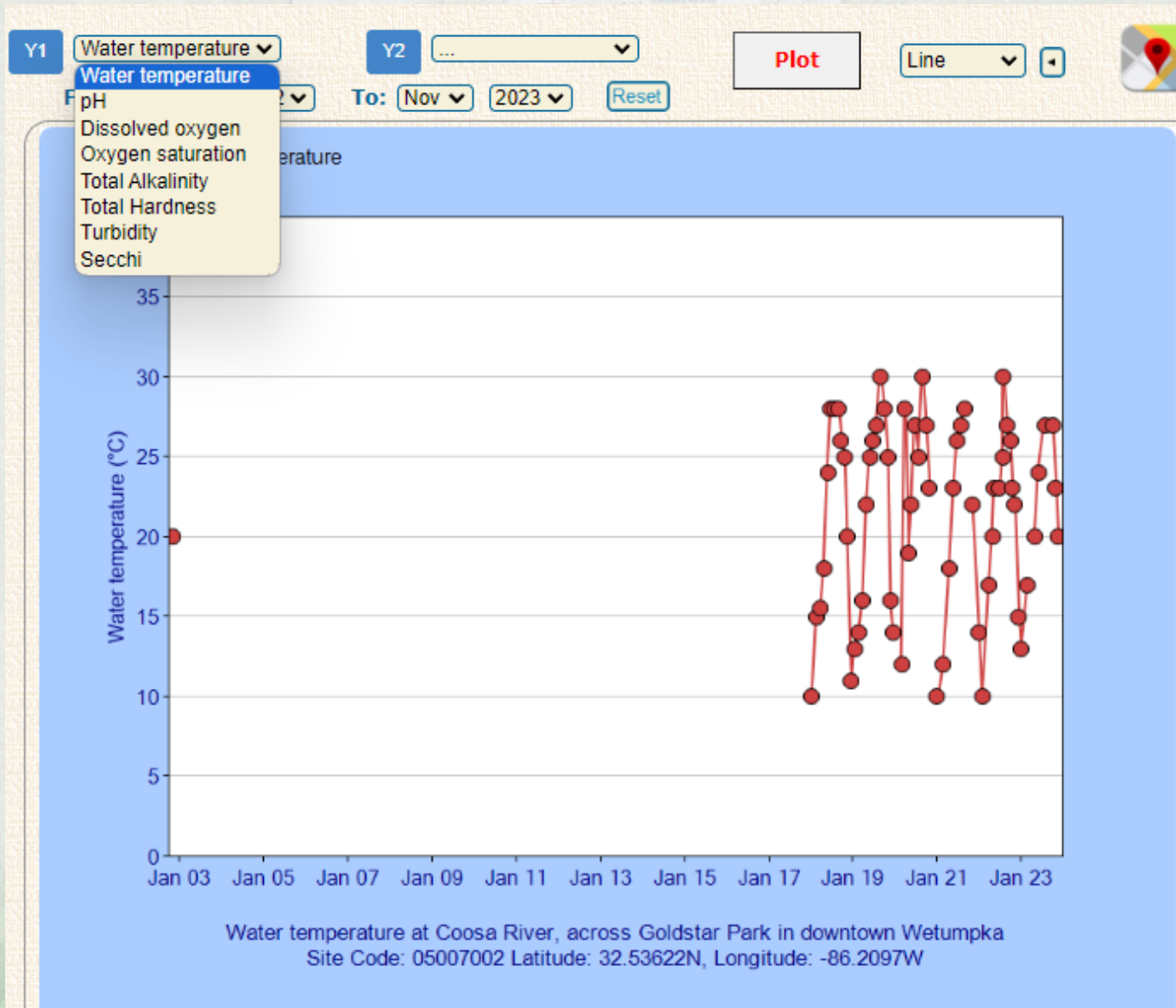
AWW Sites



Site Code: 05007002

Waterbody: Coosa River
Site Location: across Goldstar Park in downtown Wetumpka
HUC12 Subwatershed: 031501070907
Last Date: 18-Nov-2023
Sample Window: 2002 - 2023
Chem Ct: 64 [View Chart](#)
Bac Ct: 43 [View Chart](#)
Bio Ct: 0
Curr. Lat: 32.536217 **Curr Lng:** -86.2097

AWW Chemical Data



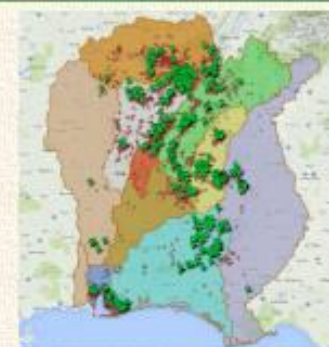


Community-Based, Science-Based Watershed Stewardship
through Citizen Volunteer Water Monitoring

Last Updated on 15-May-2024

AWW Statistics

| Indicator | Cum Numbers | Last Cal Yr | Last Yr | Yr to Date |
|-----------------------|-------------|-------------|---------|------------|
| Ttl Water Records | 113282 | 4441 | 4321 | 1423 |
| Ttl Chemistry | 87378 | 2703 | 2521 | 942 |
| Ttl Bacteria | 25494 | 1808 | 1819 | 578 |
| Ttl Bioassessment | 412 | 30 | 24 | 3 |
| Ttl Training sessions | 2831 | 116 | 107 | 39 |
| Monitors Certified | 9266 | 423 | 378 | 141 |
| Ttl Monitoring Groups | 372 | 74 | 73 | 57 |
| Ttl Waterbodies | 985 | 237 | 237 | 191 |
| Ttl Monitoring Sites | 2667 | 488 | 475 | 368 |



| Watershed ID | Name | ActMonitors | TtlActGroups | ActSites | TtlChemRecs | TtlBacRecs | TtlBioRecs | First Date | Last Date |
|--------------|---------------|-------------|--------------|----------|-------------|------------|------------|-------------|-------------|
| 01 | Alabama | 3 | 3 | 2 | 1422 | 136 | 1 | 30 Jul 1993 | 23 Feb 2024 |
| 02 | Cahaba | 9 | 10 | 8 | 2023 | 467 | 7 | 07 Oct 1993 | 12 May 2024 |
| 03 | Chattahoochee | 2 | 10 | 25 | 1415 | 398 | 1 | 15 Sep 1994 | 16 Apr 2024 |
| 04 | Coastal Plain | 34 | 4 | 79 | 14877 | 6566 | 74 | 10 Sep 1993 | 12 May 2024 |
| 05 | Coosa | 48 | 10 | 53 | 14461 | 1758 | 127 | 03 Jan 1993 | 13 May 2024 |
| 06 | Mobile | 64 | 7 | 44 | 11718 | 4690 | 3 | 12 Apr 1993 | 14 May 2024 |
| 07 | Tallapoosa | 34 | 14 | 93 | 16365 | 6397 | 109 | 18 Jun 1993 | 15 May 2024 |
| 08 | Tennessee | 27 | 13 | 57 | 14928 | 2154 | 61 | 15 Jul 1993 | 09 May 2024 |
| 09 | Tombigbee | 1 | 4 | 5 | 181 | 41 | 6 | 25 Jan 1994 | 05 Apr 2024 |
| 10 | Black_Warrior | 20 | 13 | 36 | 9906 | 2838 | 23 | 24 May 1993 | 11 May 2024 |
| 21 | Other | 0 | 0 | 0 | 0 | 0 | 0 | 20 Aug 2023 | 22 Aug 2023 |

Thank you AWW Volunteers; together we have collected over 100,000 water data records!



COMMUNITY-BASED, SCIENCE-BASED WATERSHED STEWARDSHIP THROUGH CITIZEN VOLUNTEER WATER MONITORING

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ALABAMA AGRICULTURAL
EXPERIMENT STATION
Water Resources Center

Success stories

- Ryan Creek Pathogen TMDL
 - AWW data was beneficial in understanding how Ryan Creek behaves under different hydrological conditions.
- Miller Creek
 - DO data from AWW indicated low DO levels which prompted more monitoring by the Dept.

Questions??

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Alabama Water Watch

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