

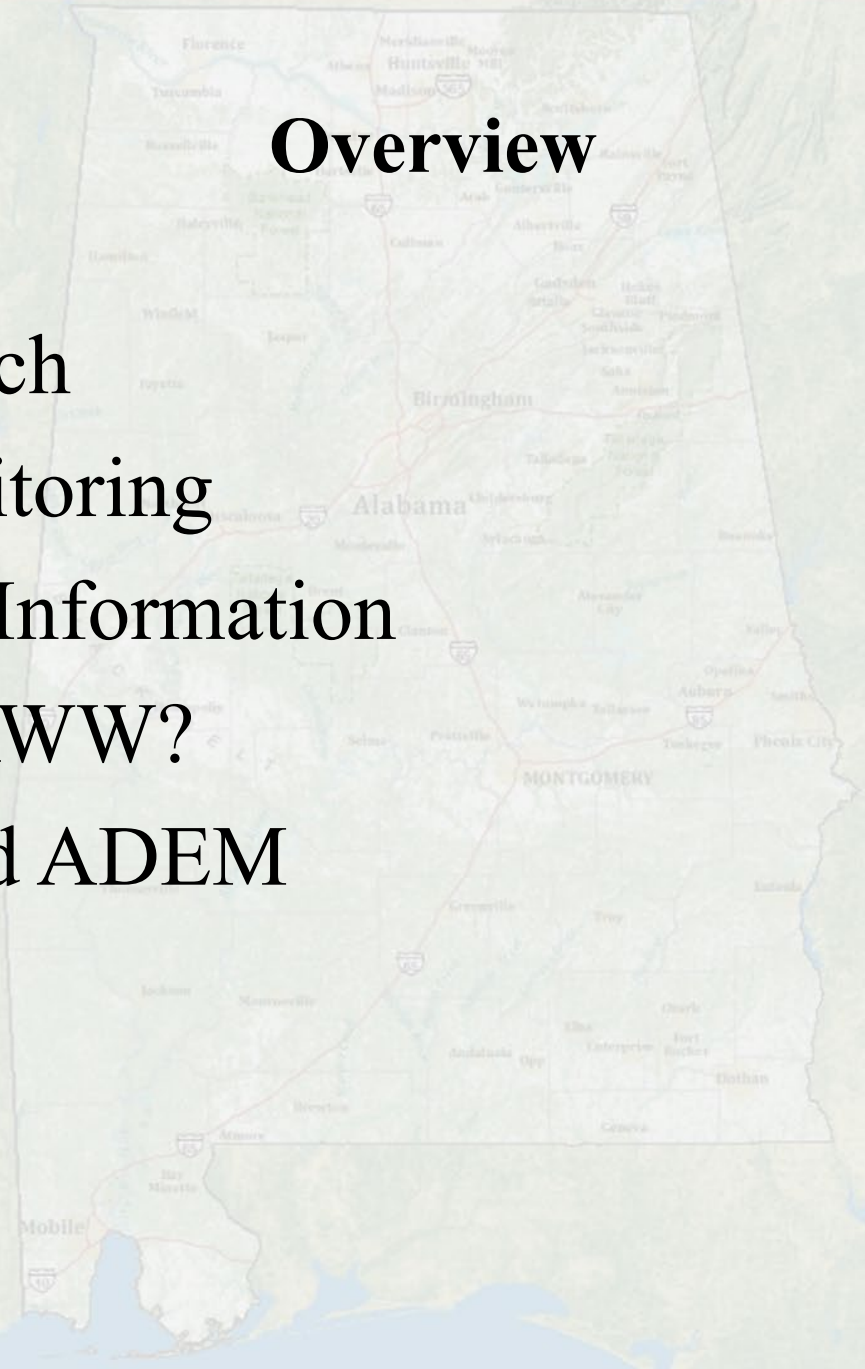
Alabama Water Watch

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



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

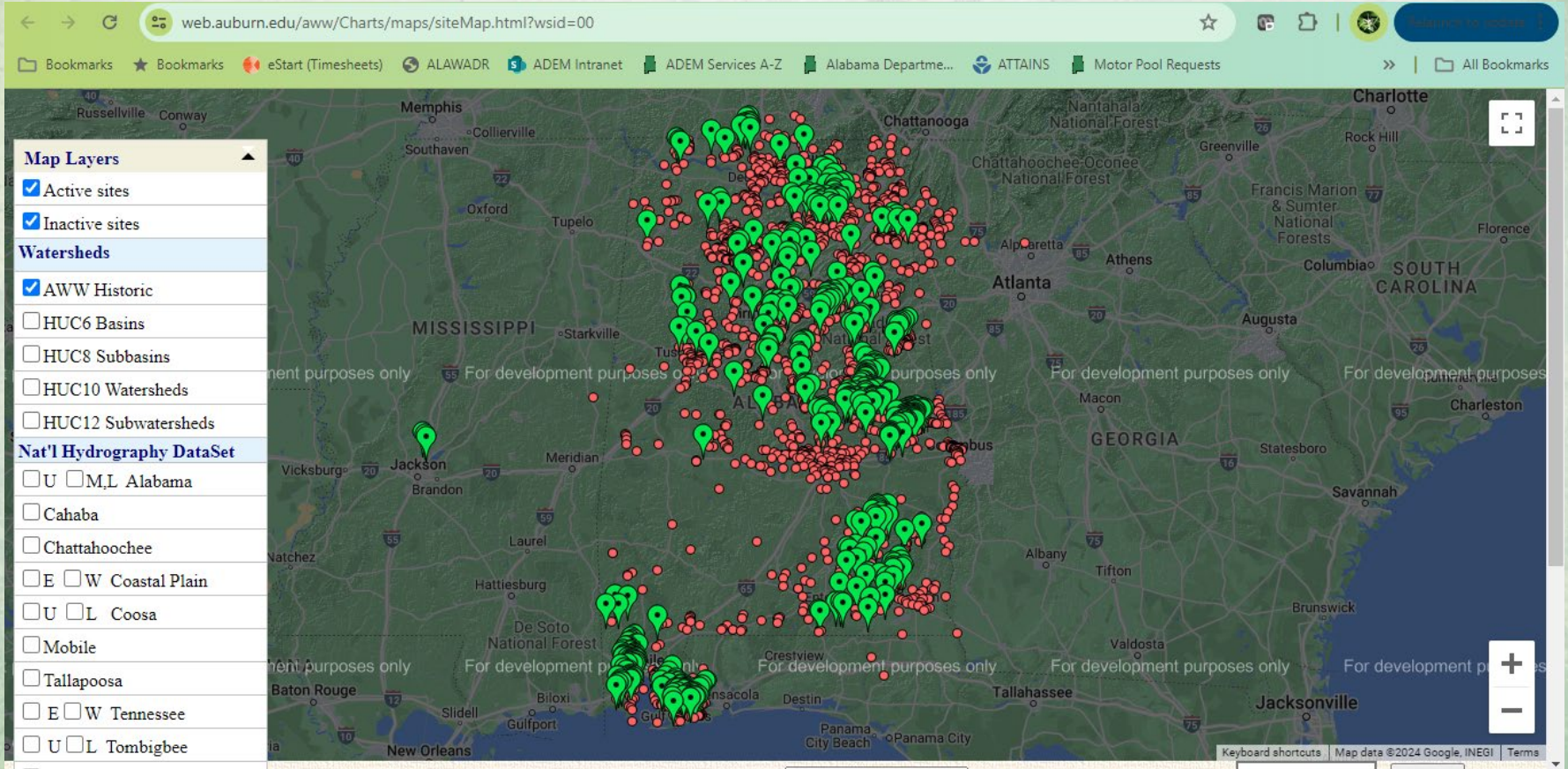
What is AWW?

- 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

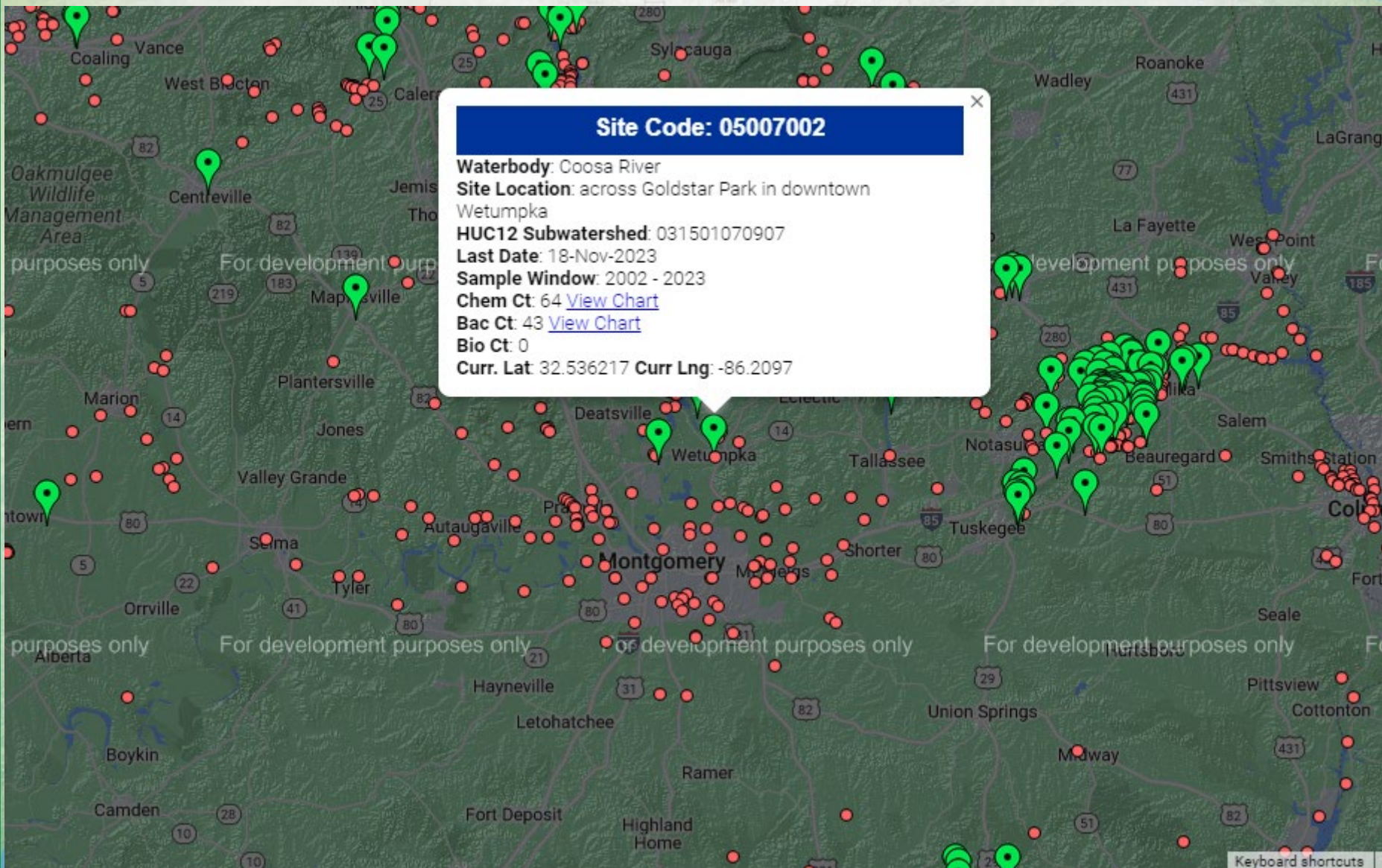
AWW Support

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

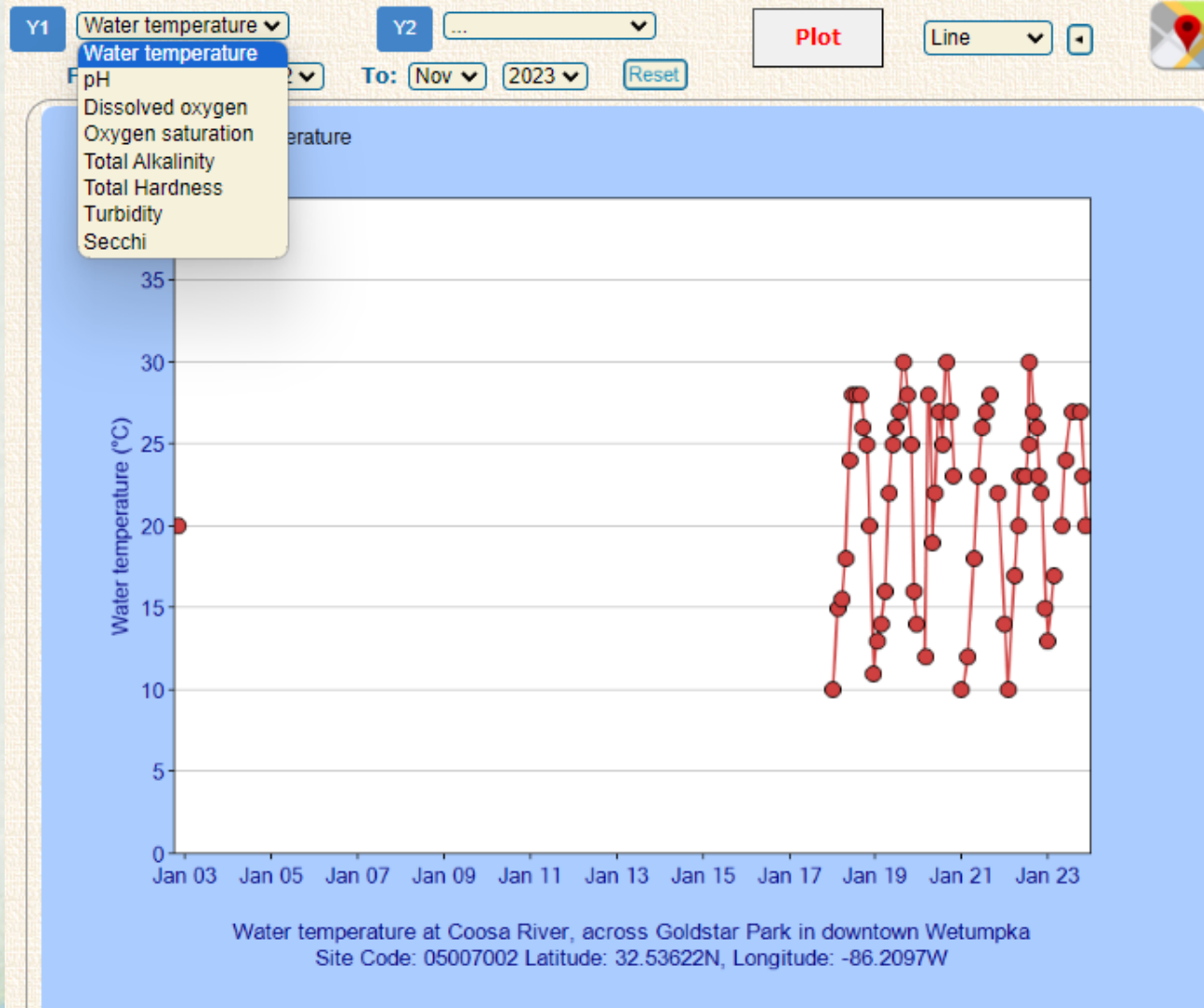
AWW Sites



AWW Sites






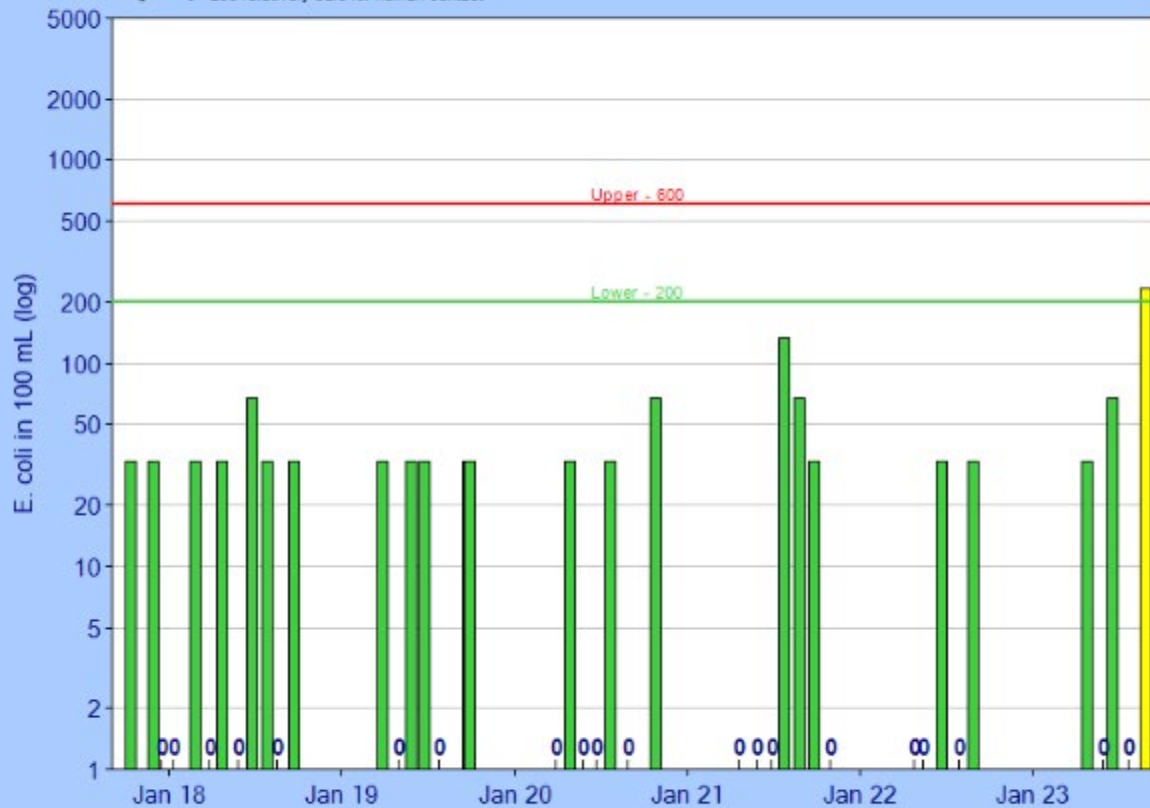
AWW Chemical Data



AWW Bacteria Data

Y1 Y2
From: To:

No. of E. coli colonies per 100 mL
 > 600 relatively unsafe for human contact
 > 200 - 600 increased risk for human contact
 0 - 200 relatively safe for human contact



E. coli at Coosa River in across Goldstar Park in downtown Wetumpka
Site Code: 05007002 Latitude: 32.536217N, Longitude: -86.2097W

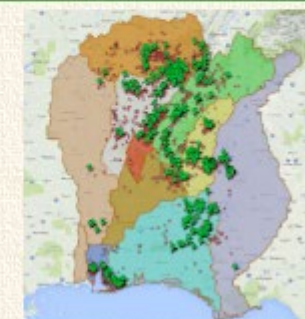


Community-Based, Science-Based Watershed Stewardship
through Citizen Volunteer Water Monitoring

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	87376	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	376	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	161	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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