



ATTAINS 101

May 25, 2022

Overview

- How to Get Access to ATTAINS
- User Roles
- Walk through of the ATTAINS User Interface
- Assessment Cycle Promotion Process
- Finding Data Using ATTAINS Reports
- ATTAINS Data and How's My Waterway – What data are used and when they appear

How to Get Access to ATTAINS

- User accounts are managed by EPA: Contact your regional Data Management Coordinator (DMC) or the ATTAINS Helpdesk (attains@epa.gov) to request an account
- State/Territory/Tribal Users need an Exchange Network (CDX web) Account (<https://cdx.epa.gov/CDX/Login>)
- EPA users use their Web Access Management (WAM) or LAN login ID
- Users then provide the following information to the ATTAINS User Administrator:
 - **Organization** (the state, territory or tribal name; or the EPA Region; or EPA HQ)
 - **User ID** (this is the CDX account for State/Territory/Tribal users, or the WAM/LAN ID for EPA users)
 - **Email address**
 - **First Name**
 - **Last Name**
- State users who want to flow data through the Exchange Network, must also associate their account with the ATTAINS EN Data flow through the CDX Node Helpdesk (nodehelpdesk@epacdx.net).

Manage User	
Organization*	Select Organization
User ID*	User ID
First Name	First Name
Email	Email
Last Name	Last Name

How Do I Log In?

Production ATTAINS: <https://attains.epa.gov/attains/login>

Sign in with an existing account



Exchange Network Services

User ID:

Password:

Sign in


Need to update your password? ATTAINS uses CDX web accounts for authentication. Please visit the [CDX website](#) to manage your CDX web account.

[return to ATTAINS Home Page](#)

Select a Login Method

Login.gov | **PIV Card**

EPA PIV Smartcard Login



Please insert your PIV Card into the card reader before clicking Login button.

This login method is for EPA users only.

LOGIN

Roles for State/Territory/Tribal Users

- Read Only
- Data Entry
- Administrator

Assessment Units	<input checked="" type="radio"/> Read Only	<input type="radio"/> Data Entry	<input type="radio"/> Administrator
Assessments	<input checked="" type="radio"/> Read Only	<input type="radio"/> Data Entry	<input type="radio"/> Administrator
Actions	<input checked="" type="radio"/> Read Only	<input type="radio"/> Data Entry	<input type="radio"/> Administrator
Surveys	<input checked="" type="radio"/> Read Only	<input type="radio"/> Data Entry	<input type="radio"/> Administrator
Domains	<input type="checkbox"/> Administrator		

Roles for EPA Users

- Read Only (lowest level permissions)
- Administrator (mid-level permissions)
- Reviewer (high-level permissions)

Assessment Units

Read Only

Assessments

Read Only Reviewer

Actions

Read Only Administrator Reviewer

Surveys

Read Only Data Entry Administrator

Users

Administrator

For more information about Roles, refer to the “Roles and Permissions in ATTAINS” document on the ATTAINS Public Website, under the “Upload Data” tab: <https://www.epa.gov/waterdata/attains>

Terminology

- ATTAINS
- Assessment Unit
- Assessment
- Parameter versus Cause
- Actions include TMDLs and other Plans to Restore or Protect the Water
- EPA IR Categories

EPA Integrated Report (IR) Categories

1. Attaining standards
2. Attaining some designated uses, and insufficient or no data and information to determine if remaining uses are attained
3. Insufficient or no data and information to determine if the standard is attained
4. Impaired or threatened for one or more designated uses but not needing a TMDL
 - a. TMDL has been completed
 - b. Expected to meet standards
 - c. Not impaired by a pollutant
5. Impaired or threatened by pollutant(s) for one or more designated uses and requiring a TMDL
 - a. Alternative restoration plan in place

305 (b)
Report

303(d)
List

Impaired
Waters

ATTAINS Modules Overview

Assessment Units	Assessments	Actions	Reports	Surveys	Administration*
<ul style="list-style-type: none">• Assessment Unit (AU)• Upload GIS	<ul style="list-style-type: none">• Edit Assessment decisions• Share Cycle• Add Cycle Documents• Promote Cycle	<ul style="list-style-type: none">• Enter and submit TMDLs, 4B Plans, Alternative Restoration Plans, and Protection Plans• Transaction History	<ul style="list-style-type: none">• View summary data• Query and filter for data• Compare Cycles• Find AUs missing GIS data	<ul style="list-style-type: none">• Enter and submit statewide statistical survey results	<ul style="list-style-type: none">• Add state-specific Domain values• Update descriptive paragraph, metrics and state URLs for How's My Waterway

*Administration module is only available for state Domain Administrators or EPA User Administrators

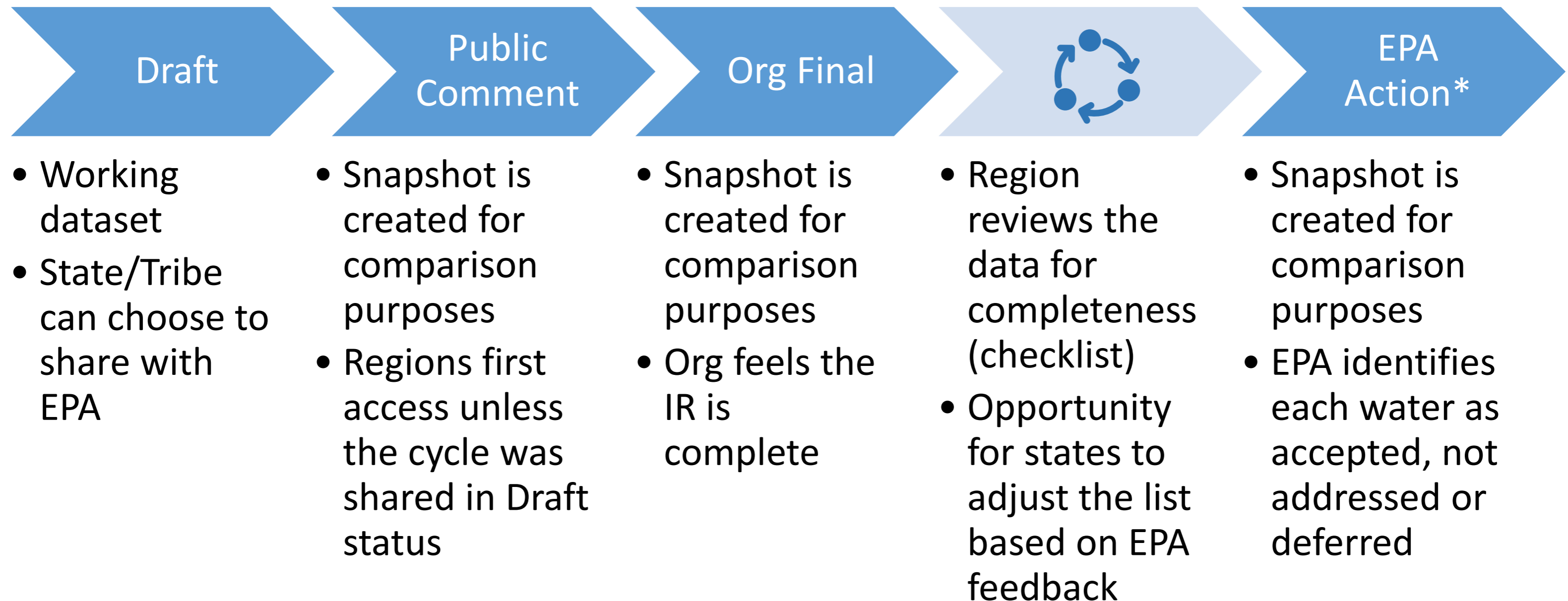
Additional Modules:

- Priorities – for entering 303(d) Vision Priorities
- EPA Reports – Only for EPA users, shows Assessment Cycle status across multiple organizations
- Help module – has searchable help topics

Walk-Through of User Interface

Data Promotion Process

- Occurs through ATTAINS User Interface
- Allows users to view data and run reports prior to promotion



* If list is approved, this is EPA Final Action. If partial approval or disapproval, other steps follow.

Organization-Controlled Statuses



Org. Draft

- State/Tribe can view, edit, and batch upload
- EPA can only view, edit, or batch upload if State/Tribe chooses to share cycle with EPA
- Public cannot view data



Org. Public Comment

- State/Tribe can view, edit, and batch upload
- EPA can view data
- Assessment Data accessible through web services, labelled as Org. Public Comment, but *not visible* in How's My Waterway



Org. Final Submittal

- State/Tribe considers cycle complete and submitted to EPA
- EPA can view data
- Data accessible through web services and visible in How's My Waterway
- EPA can return submission to State/Tribe after completeness review. Once returned, they can edit and re-promote the status. This can be repeated multiple times as necessary.

EPA-Controlled Statuses



EPA Document Decisions

- EPA considers the cycle complete
- Any further changes will be recorded as overlistings
- Allows State/Tribe to start work on the next cycle



EPA Final Action

- EPA has completed review of cycle
- Web services and How's My Waterway show the latest status

Types of ATTAINS Reports


Cycle Summary	Cycle Comparison	Assessment Units	Actions Summary	EPA Reports
<ul style="list-style-type: none">• Assessments• Uses• Parameters• Sources• Delistings	<ul style="list-style-type: none">• Changes at Assessment level• Changes at Parameter level	<ul style="list-style-type: none">• Missing GIS	<ul style="list-style-type: none">• TMDLs• Actions	<ul style="list-style-type: none">• Cycle Status

Summary Reports Can Answer...

- How many waters are in Category 5?
- How many waters are Supporting or Not Supporting a specific Use?
- What is the most frequently reported Cause of impairment?
- What water / parameter combos are on the 303(d) list?
- Which parameters were Delisted this cycle?

Comparison Reports Can Answer....

- Which waters have changed EPA IR Category since the prior cycle?
- Which Parameters have changed status since the prior cycle?
- Which Parameters were in Category 5 in the prior cycle and are no longer in Category 5?



ATTAINS Reports Demo

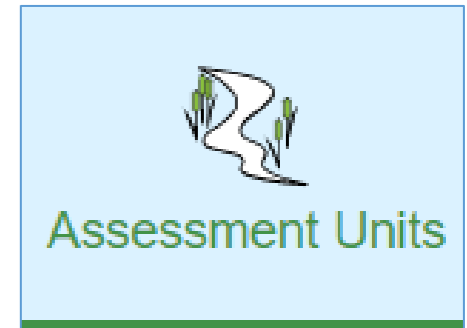
ATTAINS Data and How's My Waterway

Types of Data	Location in ATTAINS	When it Appears in HMW
Assessment Unit definitions (AU ID, Name, Water Type, Size)	Assessment Units module	Cycle promoted to Org. Final Submittal
Geospatial location (Displays uses and parameters by group)	Assessment Units module → Upload GIS	Refreshed at regular intervals for all states promoted to Org Final Submittal since last refresh
Assessment decisions	Assessments module	Cycle promoted to Org. Final Submittal or EPA Final Action
TMDLs, 4B, Alternatives, Protection Plan Actions	Actions module	Action is finalized
HMW Metrics	Administration module → Metrics	Revised HMW Metrics are saved and published by the state
Survey Results	Surveys Module	Survey is published by the state. A HMW crosswalk table that maps Site-specific Use to Survey Use or Condition is updated



Where Data from
ATTAINS appear in
How's My Waterway

Assessment Units



ATTAINS

Assessment Unit Identifier	TN05130202023_0200			
Assessment Unit Name	Middle Fork Browns Creek			
Status	Active			
Location Description	Middle Fork Browns Creek from Browns Creek to headwaters. Ecoregion 71h Davidson County			
Water Types				
Water Type	Size Units Size Source Estimation Method			
RIVER	3.5 Miles			

How's My Waterway

Middle Fork Browns Creek
Assessment Unit ID: TN05130202023_0200

Waterbody Condition: Impaired

Existing Plans for Restoration: No

303(d) Listed: Yes

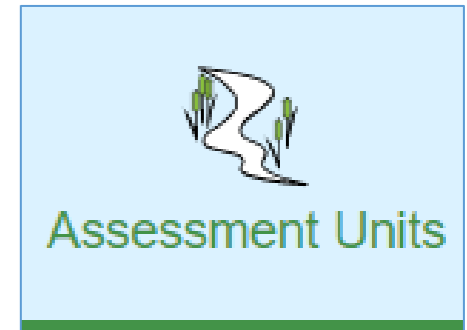
Year Last Reported: 2020

Organization Name (ID): Tennessee (TDECWR)

What type of water is this?
River (3.5 Miles)

Where is this water located?
Middle Fork Browns Creek from Browns Creek to headwaters. Ecoregion 71h Davidson County

Assessment Units



ATTAINS

How's My Waterway

Upload GIS Menu

Contact Information

Is the Contact for the GIS files different from the Assessment Unit Administrator? No Yes

Geospatial File Information

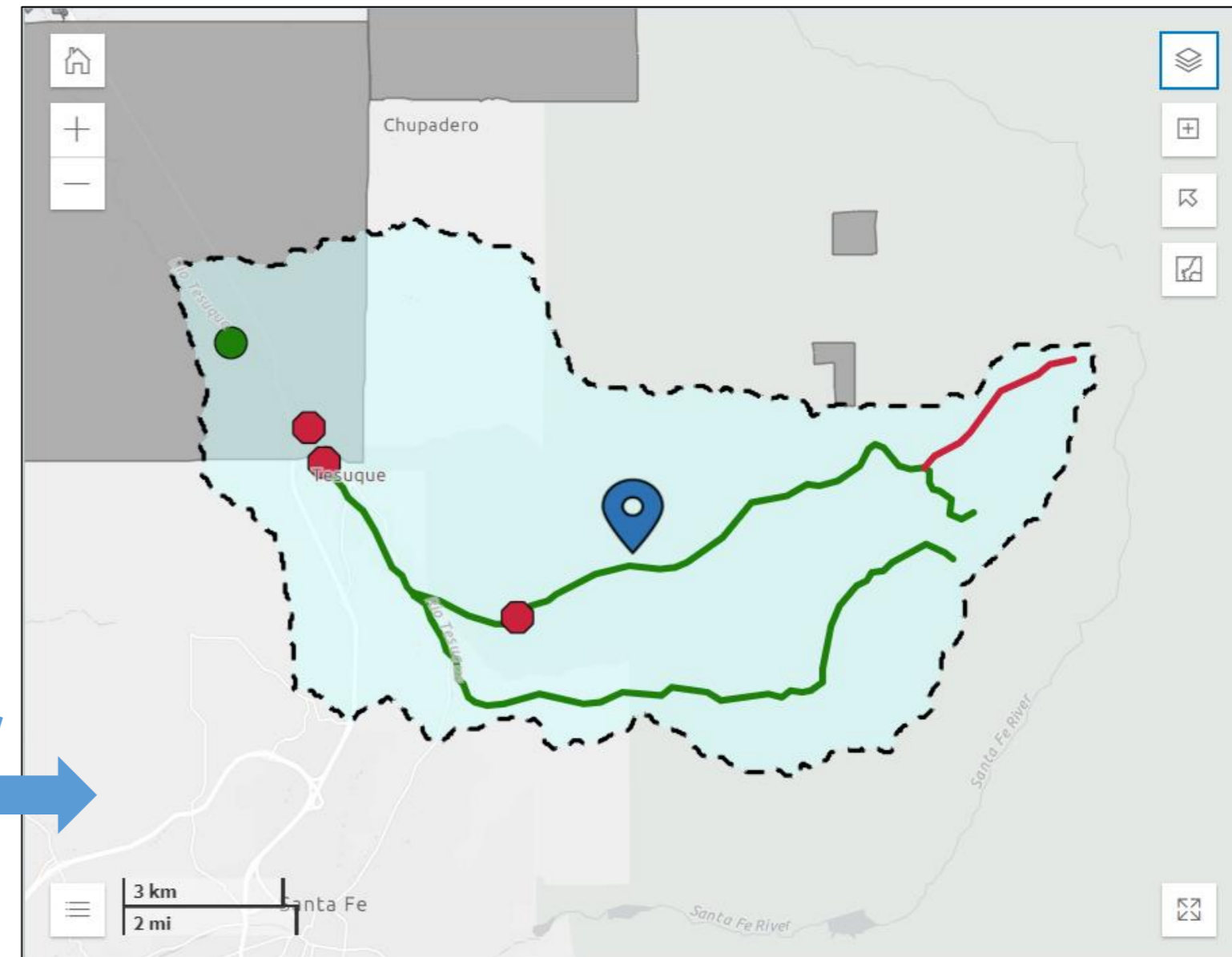
Geometry Type(s) Linear Polygon Point

Provide the column in the attribute table for each geometry type that contains the Assessment Unit Identifier

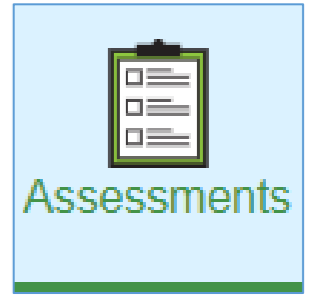
Select ZIP File for Upload No file chosen

Comments

Enter any relevant comments about your GIS file submission to assist with CIP review and processing



Assessments



ATTAINS

How's My Waterway

Location Description ⓘ	Pajarito Canyon (Starmers Gulch to Homestead Spring)
Use Class ⓘ	<i>Not Specified</i>
State ⓘ	NM
Cycle ⓘ	2022
Agency ⓘ	State
EPA IR Category ⓘ	5 Show Definition
Rationale ⓘ	This AU was split from NM-128.A_07 as a result of Hydrology Protocol surveys that documented a perennial reach downstream of Homestead Spring. Hydrology Protocol survey results indicate this AU is perennial. Standards revisions affecting this AU are currently a matter under consideration in the 2020 Triennial Review. NMED will update the AU standards reference appropriately following rule publication and subsequent EPA action. Show Less

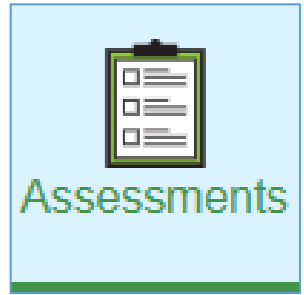


Waterbody Report

Decision Rationale

This AU was split from NM-128.A_07 as a result of Hydrology Protocol surveys that documented a perennial reach downstream of Homestead Spring. Hydrology Protocol survey results indicate this AU is perennial. Standards revisions affecting this AU are currently a matter under consideration in the 2020 Triennial Review. NMED will update the AU standards reference appropriately following rule publication and subsequent EPA action.

Assessments



ATTAINS

How's My Waterway

Designated Uses

Use Name	Use Support	Threatened	Agency	EPA IR Category
Limited Aquatic Life	Not Supporting	No	State	5
Livestock Watering	Not Supporting	No	State	5
Secondary Contact	Not Assessed	No	State	3
Wildlife Habitat	Fully Supporting	No	State	2

Parameters

Parameter Name	Parameter Status	EPA IR Category	Delisted
ALPHA PARTICLES	Cause	5	No
ALUMINUM, TOTAL	Cause	5	No

Assessment Information from 2022

What is this water used for?

Expand All

Limited Aquatic Life Impaired

Impairments Evaluated

Impairment **Plan in Place**

Aluminum, Total No

Other Parameters Evaluated
No other parameters evaluated for this use.

Livestock Watering Impaired

Impairments Evaluated

Impairment **Plan in Place**

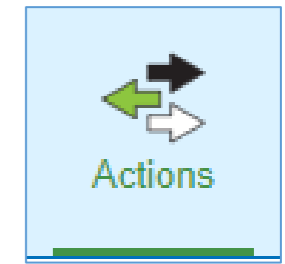
Alpha Particles No

Other Parameters Evaluated
No other parameters evaluated for this use.

Secondary Contact Not Assessed

Wildlife Habitat Good

Actions



ATTAINS

How's My Waterway

Actions

Action ID	Action Name	Agency Code	Type	Status	Completion Date
	Jemez				
69010	Jemez River Watershed TMDL	State	TMDL	Final	2021-11-24
66401	TMDL for the Jemez River Watershed	State	TMDL	Final	2016-09-23
36979	EAST FORK JEMEZ RIVER 2106.A_13 ARSENIC AND TEMP TMDLS	State	TMDL	Final	2009-09-15



Plans to Restore Water Quality

What plans are in place to protect or restore water quality?

Links below open in a new browser tab.

Plan	Impairments	Type	Date
Jemez River 2105_75 Arsenic and Boron Tmdls	Arsenic, Boron	TMDL	2009-09-15
Jemez River Watershed Tmdl	Arsenic, Dissolved, Specific Conductivity, Temperature, Turbidity	TMDL	2021-11-24
Tmdl for the Jemez River Watershed	Escherichia Coli (E. coli), Nitrogen, Total, Phosphorus, Total	TMDL	2016-09-23

Administration



ATTAINS

How's My Waterway

Administration Console

The information saved on this page will be available to the public on Hows My Waterway.

Metrics for Hows My Waterway

Description ⓘ

Description about your organization

New Mexico is one of the driest states, averaging less than twenty inches of annual precipitation which ranges from less than eight inches in desert valleys to over thirty inches in the mountains. A little less than 7% of New Mexico's streams and rivers are perennial, with the remaining 93% being intermittent or ephemeral. The vast majority of lake acreage in New Mexico has been artificially created by dams. New Mexico's diverse surface waters collect rain water and snowmelt, recharge aquifers, provide important ecological and hydrological connections, support an amazing variety of wildlife and aquatic life, maintain drinking water resources, and also help promote agriculture by providing vital irrigation water. The New Mexico Environment Department Surface Water Quality Bureau prepares the Integrated Report which describes the water quality status of the state's surface waters, as required by the Clean Water Act. The report provides an evaluation and summary of physical, chemical, and biological characteristics of surface waters related to human recreation, fish and wildlife, and other designated uses, and provides a basis for establishing effective water quality management policies and plans intended to preserve, protect, and improve New Mexico's surface water quality for present and future generations. More information about New Mexico's surface water quality can be found at: <https://www.env.nm.gov/surface-water-quality/303d-305b/>. [Show less](#)

Administration



ATTAINS

How's My Waterway

URLs

Label* ⓘ

Url* ⓘ

i More Information for **Louisiana**

Links below open in a new browser tab.

- [Louisiana Department of Environmental Quality, Water Programs](#)
- [Louisiana Department of Environmental Quality Water Quality Standards, Assessments, TMDLs, Nonpoint Source, and other programs](#)
- [Louisiana Department of Environmental Quality Water Quality Integrated Reports \(305\(b\)/303\(d\)\)](#)
- [Louisiana Department of Environmental Quality Water Data Portal](#)

Administration



ATTAINS

How's My Waterway

Metrics

Metrics are not required, but if you choose to enter a metric all three fields must be filled out. (Label, value and unit). Limit three metrics per organization.

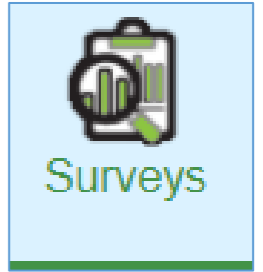
Label* ⓘ

Value* ⓘ

Unit* ⓘ



Surveys



ATTAINS

How's My Waterway

State Statistical Survey - 2008

Menu Return to list

Survey Year <i>i</i>	2008	Organization	21COL001
Survey Status <i>i</i>	Final		
Survey Comment <i>i</i>	2008-2009 National Rivers and Streams Assessment for the State of Colorado		

Survey Water Type Groups

Survey Water Group ^	Subpopulation ^	Size ^	Units ^	Number of Sites ^	...
STREAM/CREEK/RIVER	Statewide	94000	Miles	51	

Survey Water Group - Use Parameters

No Water Group Use Parameters

All Documents

No Documents

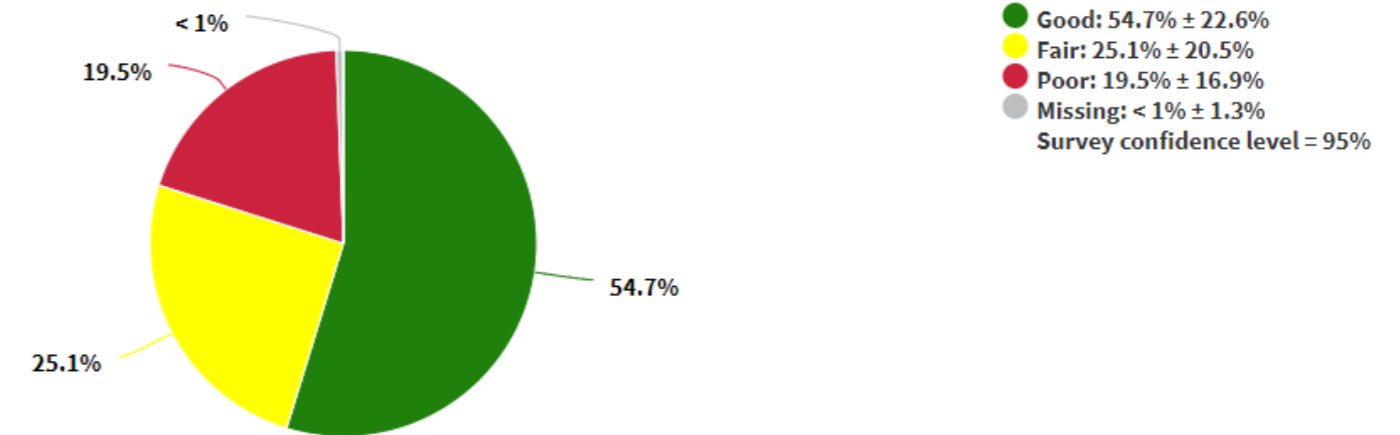
Overall water quality in Colorado *Rivers and Streams* for *Aquatic Life Use*

Population:

Statewide

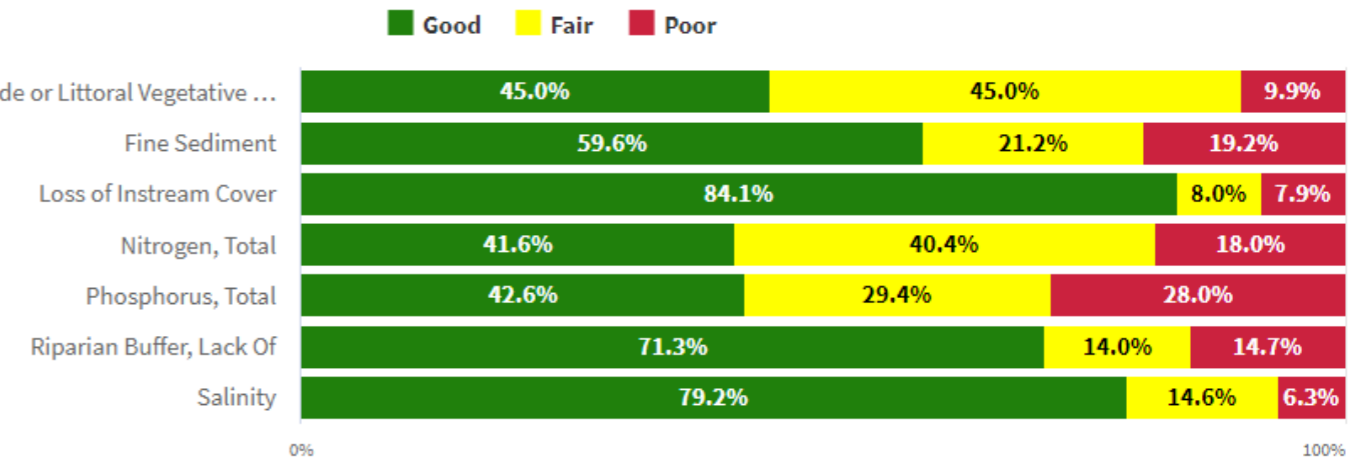
(94,000 Miles)

State statistical surveys provide an overall picture of water quality condition across the state and look at changes over time.



Year Last Reported: 2008

Stressors surveyed for *Aquatic Life Use*



Additional References

Available from the ATTAINS public website, “Upload Data” tab (<https://www.epa.gov/waterdata/attains>)

- How to Register for ATTAINS
- How to Sign In to ATTAINS
- Roles and Permissions in ATTAINS
- EPA IR Categories and How ATTAINS Calculates Them
- How to Use ATTAINS Reports to Answer Questions

Data-Related Breakout Sessions Next Week

- **Sessions Related to ATTAINS**
 - ATTAINS: A Training on Entering Actions (Session 6)
 - ATTAINS and How's My Waterway: A Secret Sauce Training (Session 7)
 - Deeper Dive on Web Services (Session 8)
- **Other Data Management Sessions**
 - General Data Management Tips (Session 6)
 - How to Manage GIS Data (Session 6)
 - The Basics of Assessment (Session 7)
 - How Continuous Monitoring Data Are Being Used in Assessments (Session 7)
 - Water Quality Exchange (WQX) Ladders (Session 8)
 - Automation Tools in Support of Assessments: Data Harmonization (Session 8)

Questions?

Presenters:

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