



FRUITA CITY
COUNCIL TMDL
UPDATE

May 7, 2024

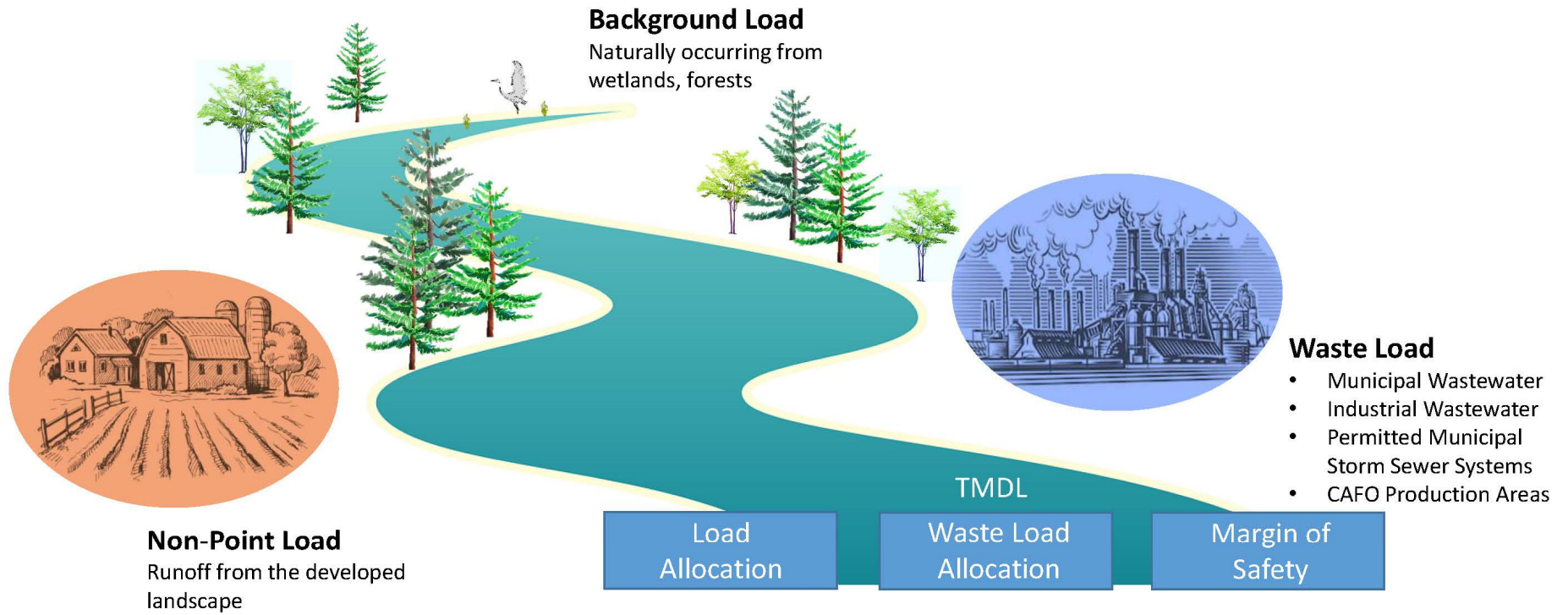
Clean Water is important

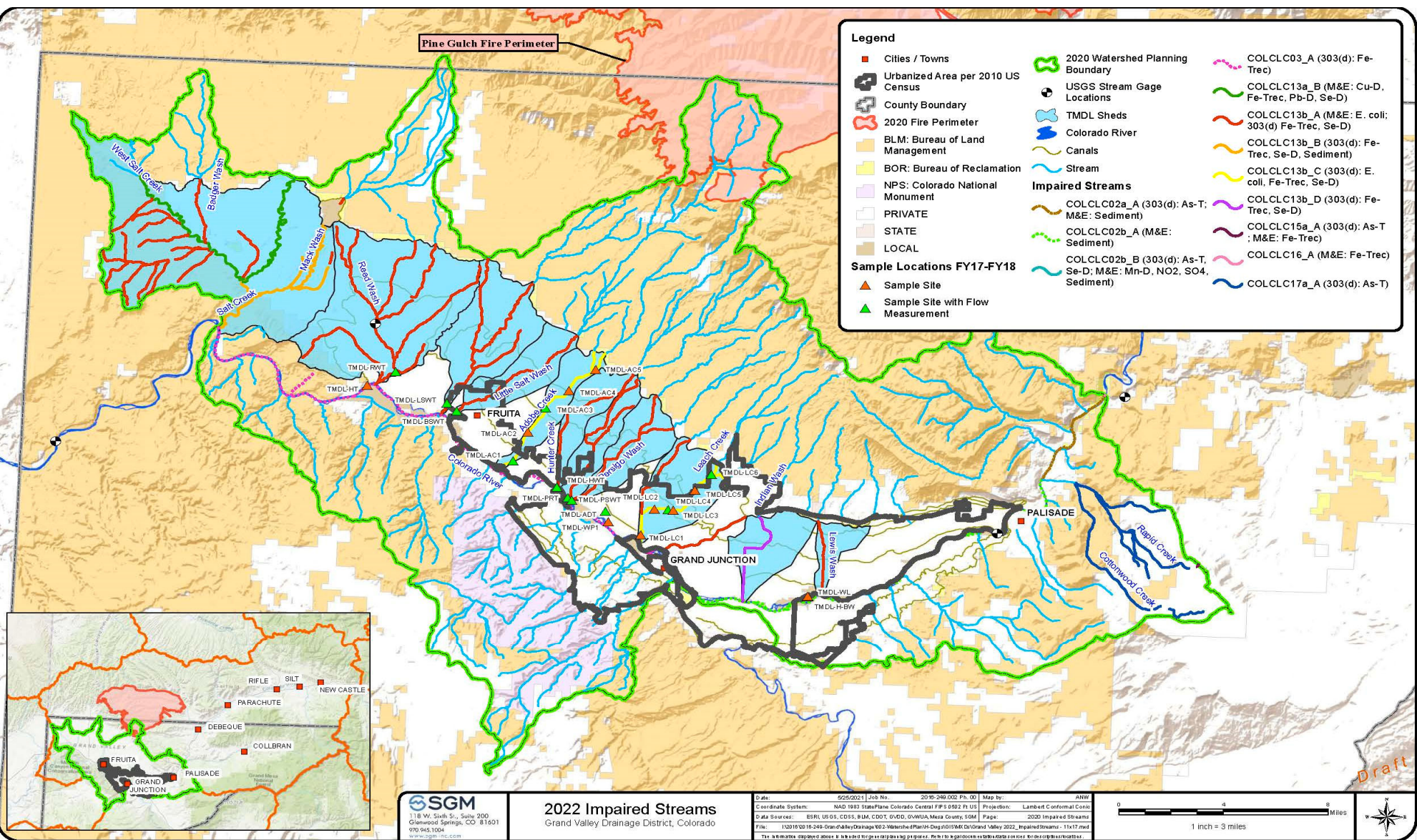


TMDL

- Total Maximum Daily Load (TMDL)
- Amount of pollutants that a stream can receive and still meet water quality standards
 - Identify sources of pollutants contributing to water quality standards
 - Point source
 - Non-point source – agriculture
 - Background loading
- Clean water is important but not at the expense the CDPHE is putting on our water

TMDLs: What are they?





Legend

| | | |
|---|--|---|
| <ul style="list-style-type: none"> ■ Cities / Towns ▣ Urbanized Area per 2010 US Census ▣ County Boundary ▣ 2020 Fire Perimeter ▣ BLM: Bureau of Land Management ▣ BOR: Bureau of Reclamation ▣ NPS: Colorado National Monument ▣ PRIVATE ▣ STATE ▣ LOCAL | <ul style="list-style-type: none"> ▣ 2020 Watershed Planning Boundary ● USGS Stream Gage Locations ▣ TMDL Sheds ▣ Colorado River ▣ Canals ▣ Stream ▣ Impaired Streams ▣ Sample Site ▣ Sample Site with Flow Measurement | <ul style="list-style-type: none"> ▣ COLCLC03_A (303(d): Fe-Trec) ▣ COLCLC13a_B (M&E: Cu-D, Fe-Trec, Pb-D, Se-D) ▣ COLCLC13b_A (M&E: E. coli, 303(d) Fe-Trec, Se-D) ▣ COLCLC13b_B (303(d): Fe-Trec, Se-D, Sediment) ▣ COLCLC13b_C (303(d): E. coli, Fe-Trec, Se-D) ▣ COLCLC13b_D (303(d): Fe-Trec, Se-D) ▣ COLCLC15a_A (303(d): As-T, M&E: Fe-Trec) ▣ COLCLC16_A (M&E: Fe-Trec) ▣ COLCLC17a_A (303(d): As-T) |
|---|--|---|

SGM
 118 W. Sixth St., Suite 200
 Glenwood Springs, CO 81601
 970.945.1004
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2022 Impaired Streams
 Grand Valley Drainage District, Colorado

Date: 5/25/2021 | Job No: 2019-249-002 Ph. 00 | Map by: ANW
 Coordinate System: NAD 1983 StatePlane Colorado Central FIPS 6002 F1 US | Projection: Lambert Conformal Conic
 Data Sources: ESRI, USGS, CDSS, BLM, CDOT, GVD, GWAUA, Mesa County, SGM | Page: 2022 Impaired Streams
 File: I:\2019\20-249-GrandValleyDrainage\2022\WatershedPlan\Map-Design\2022\GrandValley_2022_ImpairedStreams_11x17.mxd
 This is a draft map. It is not intended for use in any legal proceeding. It is subject to change without notice. For more information, contact the project manager.



Draft

TMDL Timeline

May 7, 2024

CDPHE
technical
Memo
January 2022

Comments submitted
March 2022
- AMGD
- Mesa County &
partners
- Southwest Hydrologic

2nd Notice of
Appeal

Water Quality
Control
Commission
Final Agency
Order
2/12/2024

Notice of
Appeal
9/2021

First TMDL
Issued
8/2021

TMDL Reissued
by the CDPHE
2nd Final TMDL
February 2022

Second TMDL
issued Summer
2022

TMDL Hearing
November
2023

TMDL placed on
hold December
2021 – CDPHE
withdrew August
2021 TMDL

Submitted to EPA 3/13/2024
*No deadline for EPA
approval- Final TMDL is
anticipated within 1-2
months

TMDL Update

May 7, 2024

- Potential Next Steps

- If/When TMDL is accepted by the EPA

The MS4 Permit will focus on primary requirements:

- Collect data for information pinpointing sources of E. coli, selenium and iron.
- First permitting term will not require physical, chemical or mechanical treatment
- Focus will be on source control which could include public outreach activities.
- Current CDPHE permit expired in June 2021-administratively extended and awaiting renewal
- Division can determine:
 1. if current restrictions comply with the MS4 waste load allocation in the TMDL
 2. If the current permit is not adequate and seek to modify the MS4 permit to an individual permit.

TMDL Update

May 7, 2024

- Other Regulatory Options:
 - Change the Use Classification for the Grand Valley Tributaries
 - Change the water quality standard within these tributaries
 - Site specific standards maybe appropriate for certain Grand Valley Tributaries.
 - Levels need to be higher than the table value is still protective of wildlife
 - Natural conditions in the waterway exceed the standard
 - Standard is not feasible

TMDL Update

May 7, 2024

Use Attainability Analysis

TASK 1:

Interview Water Quality Division Staff for additional information

TASK 2:

Summarized regulations and policies supporting the site-specific standard modification and Use attainability analysis.

TASK 3:

Review regulation 37 Recreation use determination

TMDL Update

June 7, 2022

UAA continued....

- Step 1: Characterize existing conditions
- Step 2: Develop a water quality monitoring plan to fill data gaps.
 - Currently the USGS is collecting water quality for different locations along Adobe and Leach Creek
- Step 3: Review accessibility of Leach Creek and Adobe Creek
- Step 5: Expand stakeholder engagement
- Step 6: Develop a funding plan to support water quality monitoring

USGS Water Quality Monitoring

- 2022 Monitoring October 2022 – September 2023
 - E.Coli monitoring Adobe and Leach Creeks. Microbial source tracking (MST) study. Dataset related to land use for geospatial analysis to explore connections between concentration loads and marker concentrations
- 2023 Monitoring
 - Characterizing E.coli concentrations and loading
- 2024 March-April Sampling
 - MST markers for seasonal variability with irrigation season
 - April – December MST sampling with reduced sites
 - Cost: \$105,000 Total
 - Stakeholders contributing \$85,000 with \$20,000 USGS cooperative matching funds.
 - Fruitas contribution with the current TMDL MOU 10%. \$8,500 for the 2024 water sampling
- **FUTURE MONITORING-** Grand Valley Cooperative partners will have future sampling and expenses due to the TMDL. Proper budgeting needs to be in place.

-108°40'

-108°35'

-108°30'

-108°25'

-108°20'

39°10'

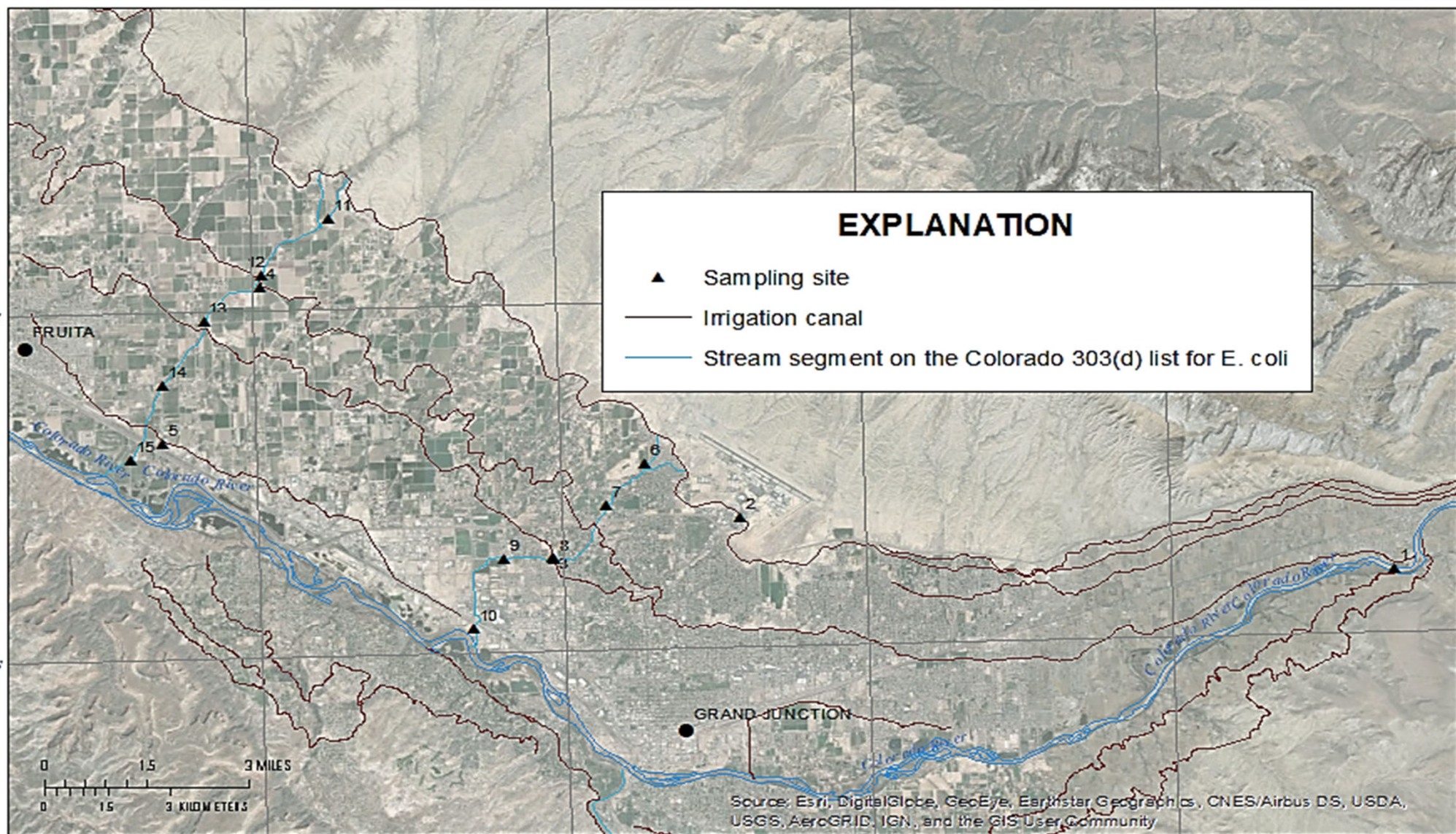
39°5'

EXPLANATION

- ▲ Sampling site
- Irrigation canal
- Stream segment on the Colorado 303(d) list for E. coli

0 1.5 3 MILES
0 1.5 3 KILOMETERS

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



TMDL Update

May 7, 2024

Questions?

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