Idaho Department of Environmental Quality

Surface Water Program Updates and Solicitation for the Teton Watershed Advisory Group

Alex Bell – Water Quality manager

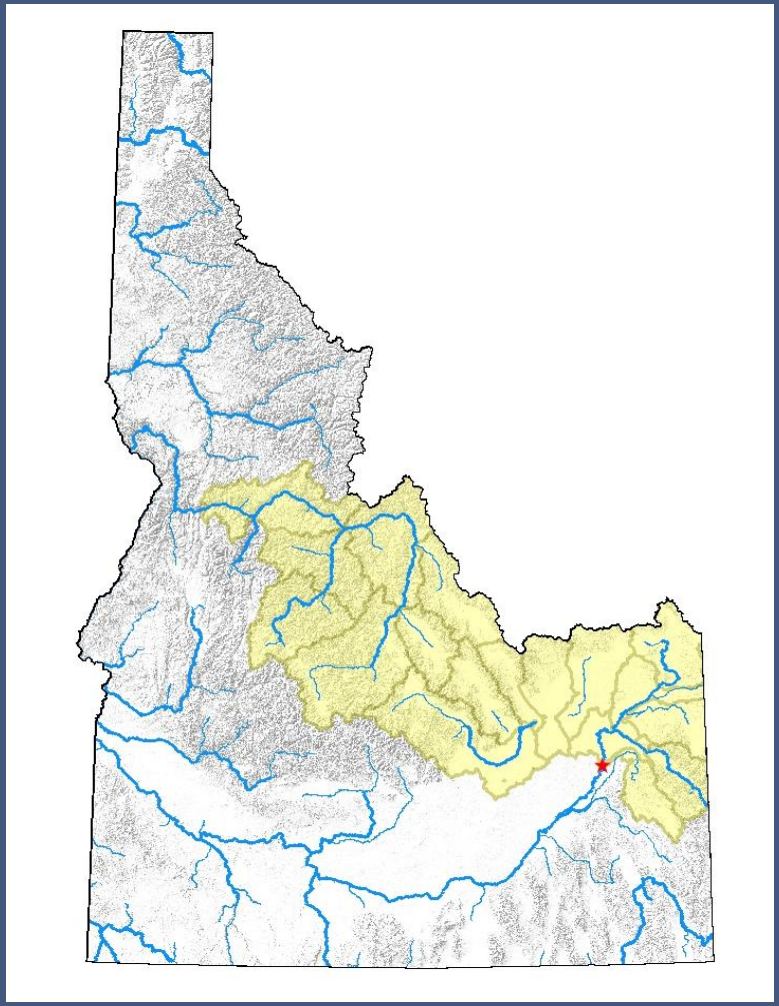
The DEQ Mission

To protect human health and the **quality** of Idaho's air, land, and **water**

Presentation Overview

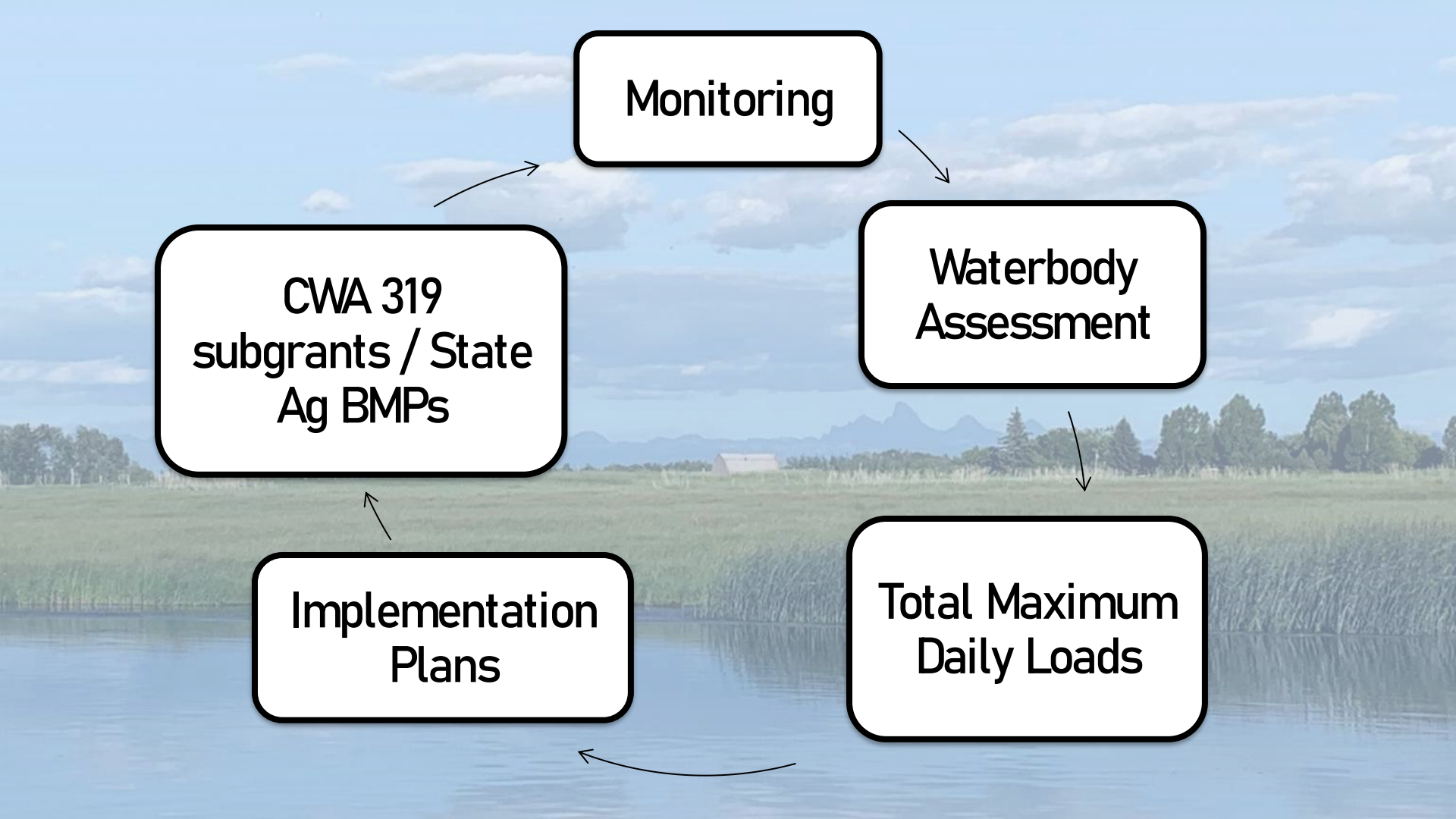
1. Ambient Monitoring
2. Integrated Report
3. TMDLs
4. Implementation plan

- Recent work in the Teton Watershed
- Teton Subbasin Watershed Advisory Group



Staff

- Kaleala Leavell – BURP
  - 3 seasonal techs
- Cherie Windsor – TMDLs
- Destiny Locke – General WQ
- Molly Oliver – IPDES Compliance
- Kim Roush - Hydrogeologist


Monitoring
Waterbody Assessment
Total Maximum Daily Loads
Implementation Plans
CWA 319 subgrants / State Ag BMPs

Beneficial Use Reconnaissance Program

Idaho Department of Environmental Quality

Integrated Report: Waterbody assessments

DEQ data

+

Call for data

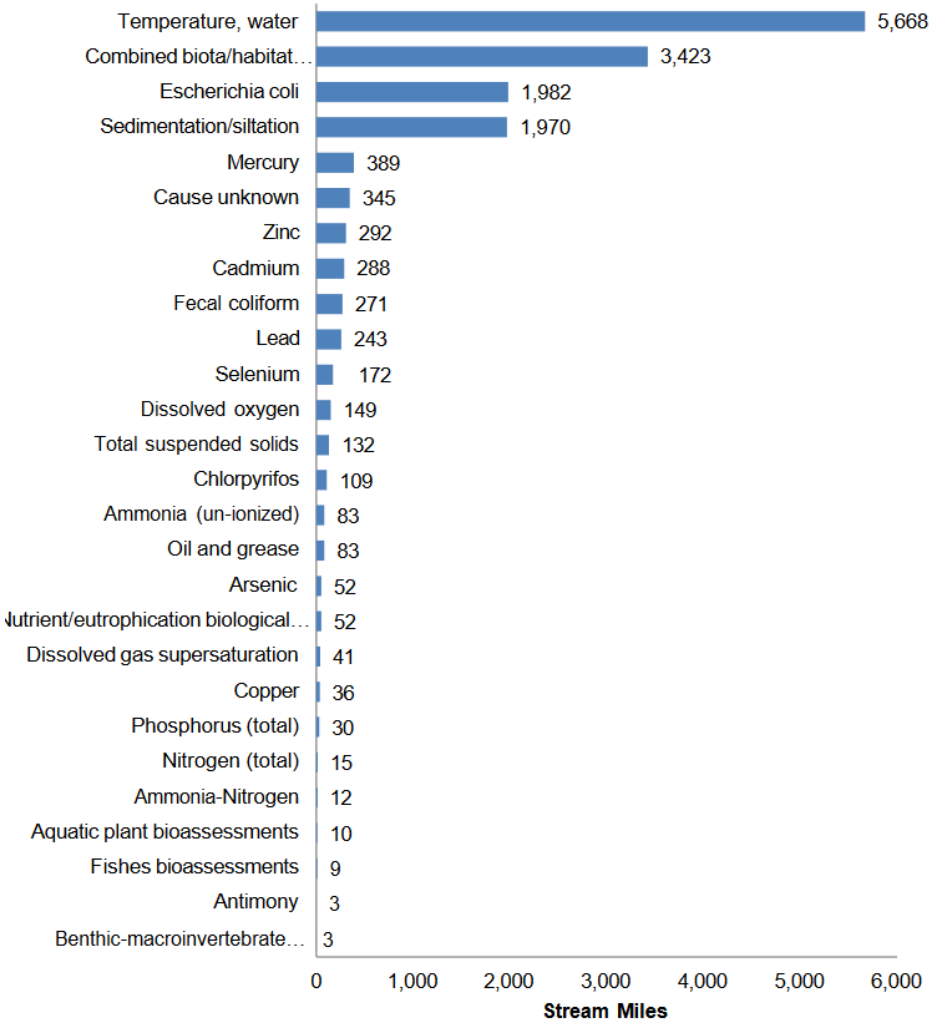
Water

Quality

Standards

Fully Supporting

Not Supporting


Temperature, water 5,668
Combined biota/habitat… 3,423
Escherichia coli 1,982
Sedimentation/siltation 1,970
Mercury 389
Cause unknown 345
Zinc 292
Cadmium 288
Fecal coliform 271
Lead 243
Selenium 172
Dissolved oxygen 149
Total suspended solids 132
Chlorpyrifos 109
Ammonia (un-ionized) 83
Oil and grease 83
Arsenic 52
Nutrient/eutrophication biological… 52
Dissolved gas supersaturation 41
Copper 36
Phosphorus (total) 30
Nitrogen (total) 15
Ammonia-Nitrogen 12
Aquatic plant bioassessments 10
Fishes bioassessments 9
Antimony 3
Benthic-macroinvertebrate… 3
0
1,000
2,000
3,000
4,000
5,000
6,000
Stream Miles

Total Maximum Daily Loads

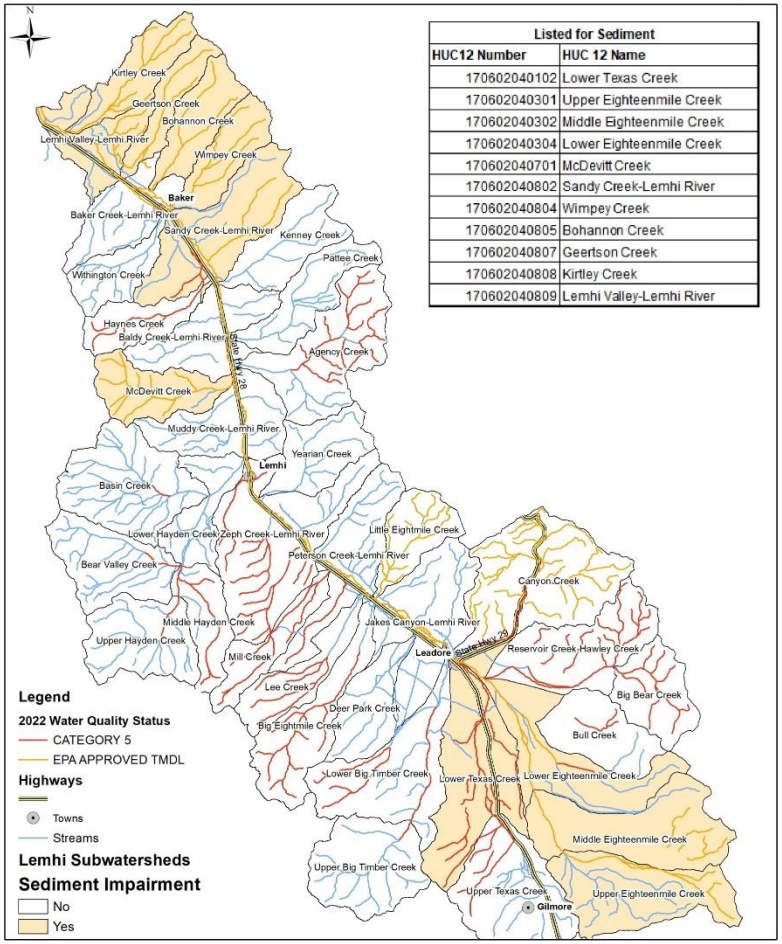
For all water bodies that do not meet water quality standards

TMDL = Load capacity for a given pollutant

Load Capacity = natural background + load allocations + wasteload allocations + margin of safety

Subwatersheds with Sediment-Impaired Streams

Listed for Sediment	
HUC12 Number	HUC 12 Name
170602040102	Lower Texas Creek
170602040301	Upper Eighteenmile Creek
170602040302	Middle Eighteenmile Creek
170602040304	Lower Eighteenmile Creek
170602040701	McDevitt Creek
170602040802	Sandy Creek-Lemhi River
170602040804	Wimpey Creek
170602040805	Bohannon Creek
170602040807	Geertson Creek
170602040808	Kirtley Creek
170602040809	Lemhi Valley-Lemhi River



Document Path: C:\Darcy\TMDLs\Lemhi\Map data\Lemhi_Subwatersheds_Sediment.mxd
Date Saved: 2/12/2024
0 4.75 9.5 19 Miles

Restriction of Liability: Neither the State of Idaho nor the Idaho Department of Environmental Quality, nor any of their employees make any warranty, express or implied, or assume any legal liability or responsibility for the accuracy, completeness or usefulness of any information or data provided. Metadata is provided for all data sets, and no data should be used without first reading and understanding its limitations. The data could include technical inaccuracies or typographical errors.The Department of Environmental Quality may update, modify, or revise the data used at any time, without notice.

Teton River TMDL Addendum
Implementation Plan for Agriculture
(HUC 17040204)

Prepared by the Idaho Soil and Water Conserv
in cooperation with the Teton Soil Conservation Distr
Water Conservation District

2020

SOIL & WATER
CONSERVATION COMMISSION

Table 6. BMPs recommended to increase sh
Field Office Technical Guide)

Practice Name
Channel Stabilization
Channel Bank Vegetation
Critical Area Planting
Grade Stabilization Structure
Grassed Waterway
Grazing Land Mechanical Treatment
Prescibed Grazing
Range Planting
Riparian Forest Buffer
Riparian Herbaceous Cover
Spring Development
Streambank and Shoreline Protection
Stream Habitat Improvement and Mana
Tree/Shrub Establishment
Upland Wildlife Habitat Management
Use Exclusion
Watering Facility

Funding

Financial and technical assistance for installation of BMPs may be needed to ensure success of this implementation plan. The Teton Soil Conservation District can assist interested landowners in actively pursuing potential funding sources to implement water quality improvements on private agricultural and grazing lands. The ISWCC and NRCS can provide technical assistance when needed. Many of these programs can be used in combination with each other to implement BMPs. These sources include (but are not limited to):

CWA 319 –These are Environmental Protection Agency funds allocated to Tribal entities and the State of Idaho. The Idaho Department of Environmental Quality (IDEQ) administers the Clean Water Act §319 Non-point Source Management Program for areas outside the Tribal Reservations. Funds focus on projects to improve water quality and are usually related to the TMDL process.
http://www.deq.idaho.gov/water/prog_issues/surface_water/nonpoint.cfm#management

Resource Conservation and Rangeland Development Program (RCRDP) –The RCRDP is a loan program administered by the ISWCC for implementation of agricultural and rangeland best management practices or loans to purchase equipment to increase conservation. http://www.scc.state.id.us/programs.htm

Environmental Quality Incentives Program (EQIP): EQIP provides financial and technical assistance to agricultural producers in order to address natural resource concerns and deliver environmental benefits such as improved water and air quality, conserved ground and surface water, reduced soil erosion and sedimentation or improved or created wildlife habitat. http://www.nrcs.usda.gov/programs/eqip/

Regional Conservation Partnership Program (RCPP) - RCPP promotes coordination between NRCS and its partners to deliver conservation assistance to producers and landowners. NRCS provides assistance to producers through partnership agreements and through program contracts or easement agreements.
http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/programs/farmbill/rcpp/

The Agricultural Conservation Easement Program (ACEP) – ACEP provides

2026 AGRICULTURAL BEST MANAGEMENT PRACTICES **GRANT PROGRAM**

- Must address agricultural or ranching BMPs.
- Must match contributions equal to or exceeding 40% of the grant funds.

APPLICATIONS ACCEPTED FROM

MAR 14 - APR 15

FOR MORE INFORMATION, VISIT: **DEQ.IDAHO.GOV/NPS**

2026 NONPOINT SOURCE MANAGEMENT § 319 GRANT APPLICATION

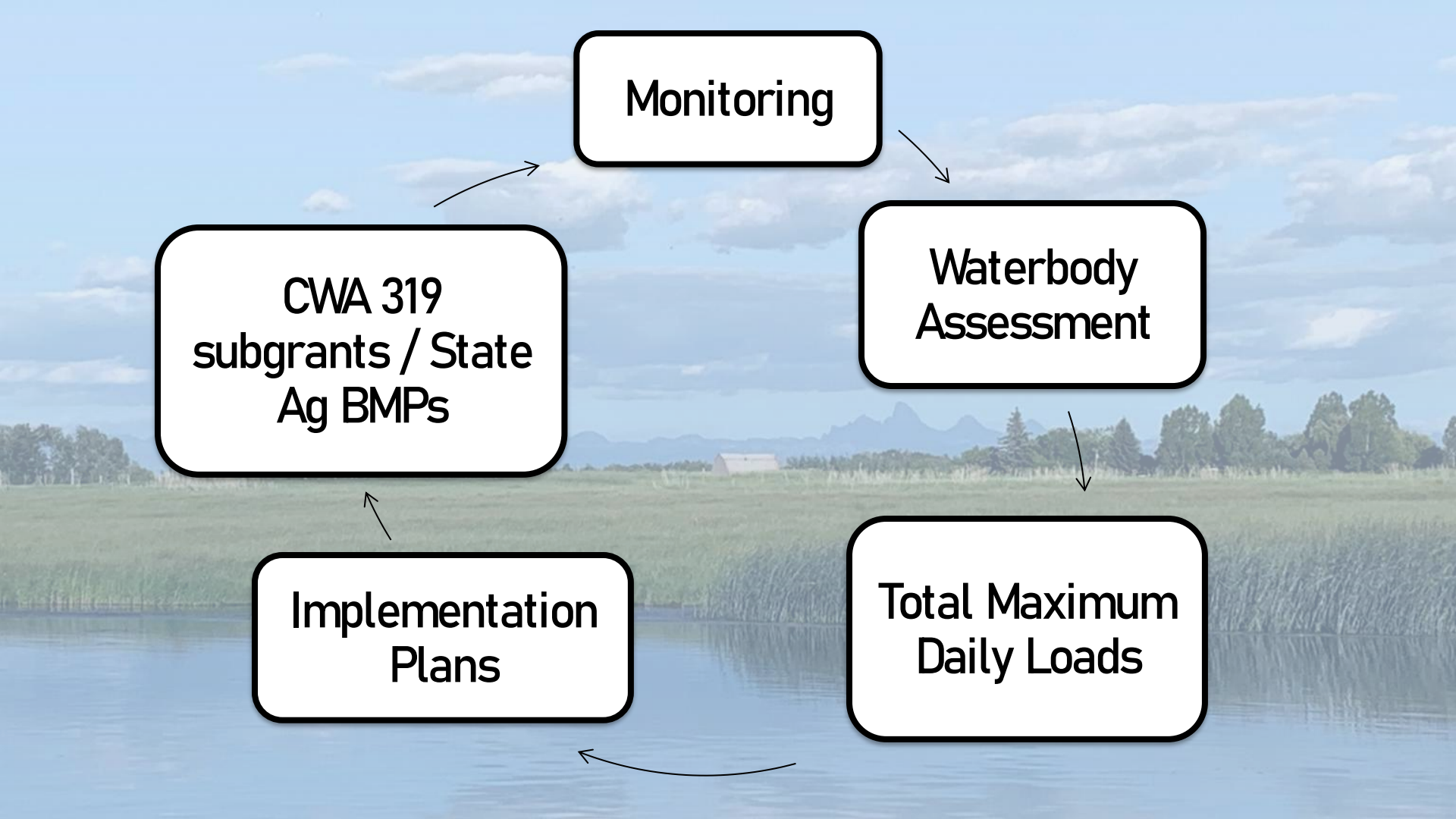
Idaho prioritizes applications that emphasize water pollution cleanup and protection, involve multiple partners and funding sources, and include detailed 3-year work plans.

APPLICATIONS ACCEPTED FROM

APR 15 – JUL 15

FOR MORE INFORMATION, VISIT: **DEQ.IDAHO.GOV/NPS**

Grant Fiscal Year	Grant Year	Projects Requested	Projects Funded	Amount Funded	Amount Requested
FFY2023	2024	25	9	$1,452,792	$3,743,778
FFY2022	2023	16	11	$1,636,172	$2,911,952
FFY2021	2022	24	10	$1,725,289	$3,739,564
FFY2020	2021	24	10	$1,602,747	$3,845,092
FFY2019	2020	16	8	$1,253,994	$2,311,423
FFY 2018	2019	25	8	$1,349,222	$3,963,085
FFY 2017	2018	29	10	$1,387,379	$4,373,484
FFY 2016	2017	30	9	$1,328,139	$4,499,239
FFY 2015	2016	32	9	$1,343,092	$5,915,020


Monitoring
Waterbody Assessment
Total Maximum Daily Loads
Implementation Plans
CWA 319 subgrants / State Ag BMPs

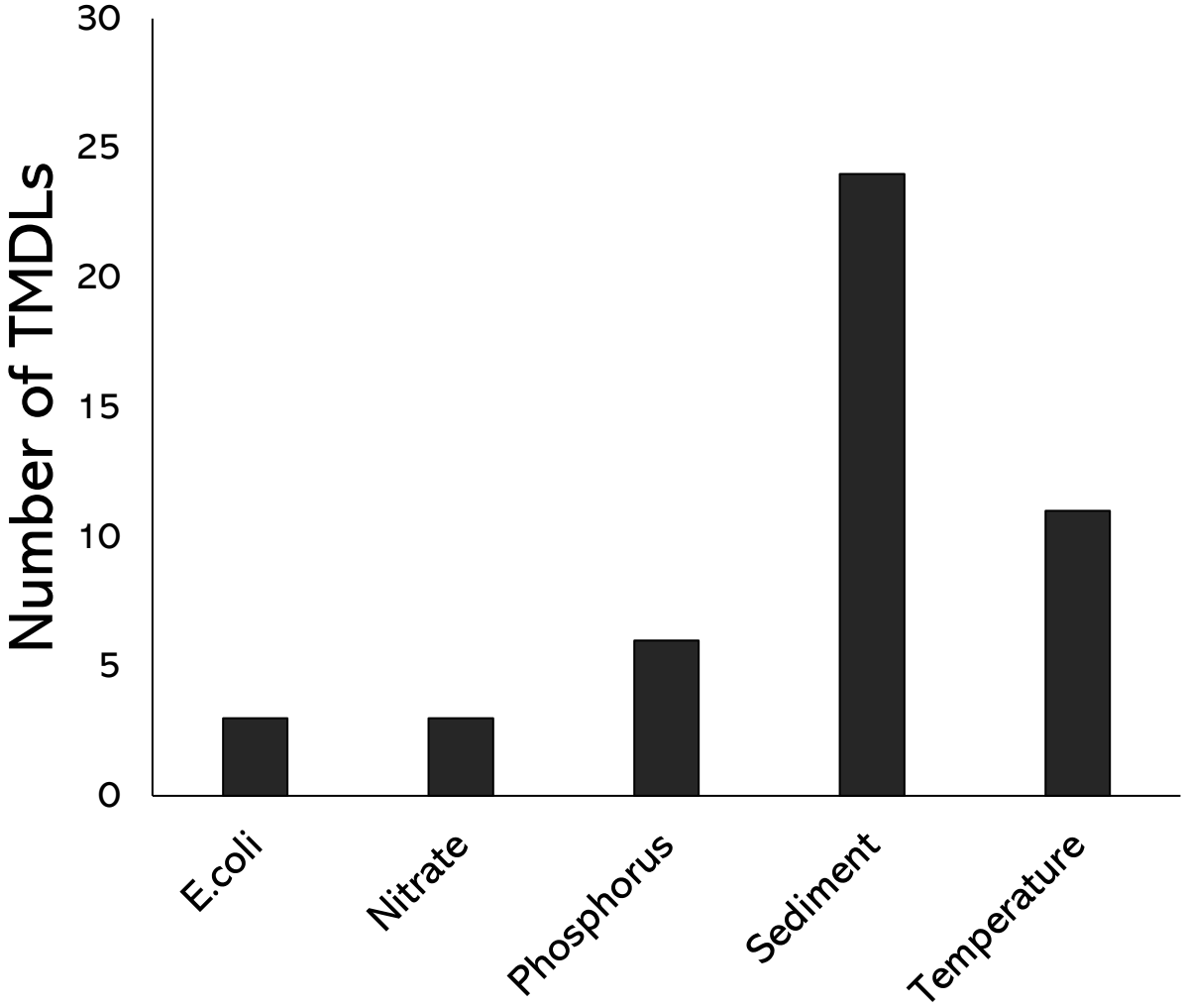
Total Maximum Daily Loads in the Teton

2003 – First subbasin TMDL : 9 Sediment, 2 Nutrient

2003 – Supplement TMDL: 1 Nutrient, 2 Temperature

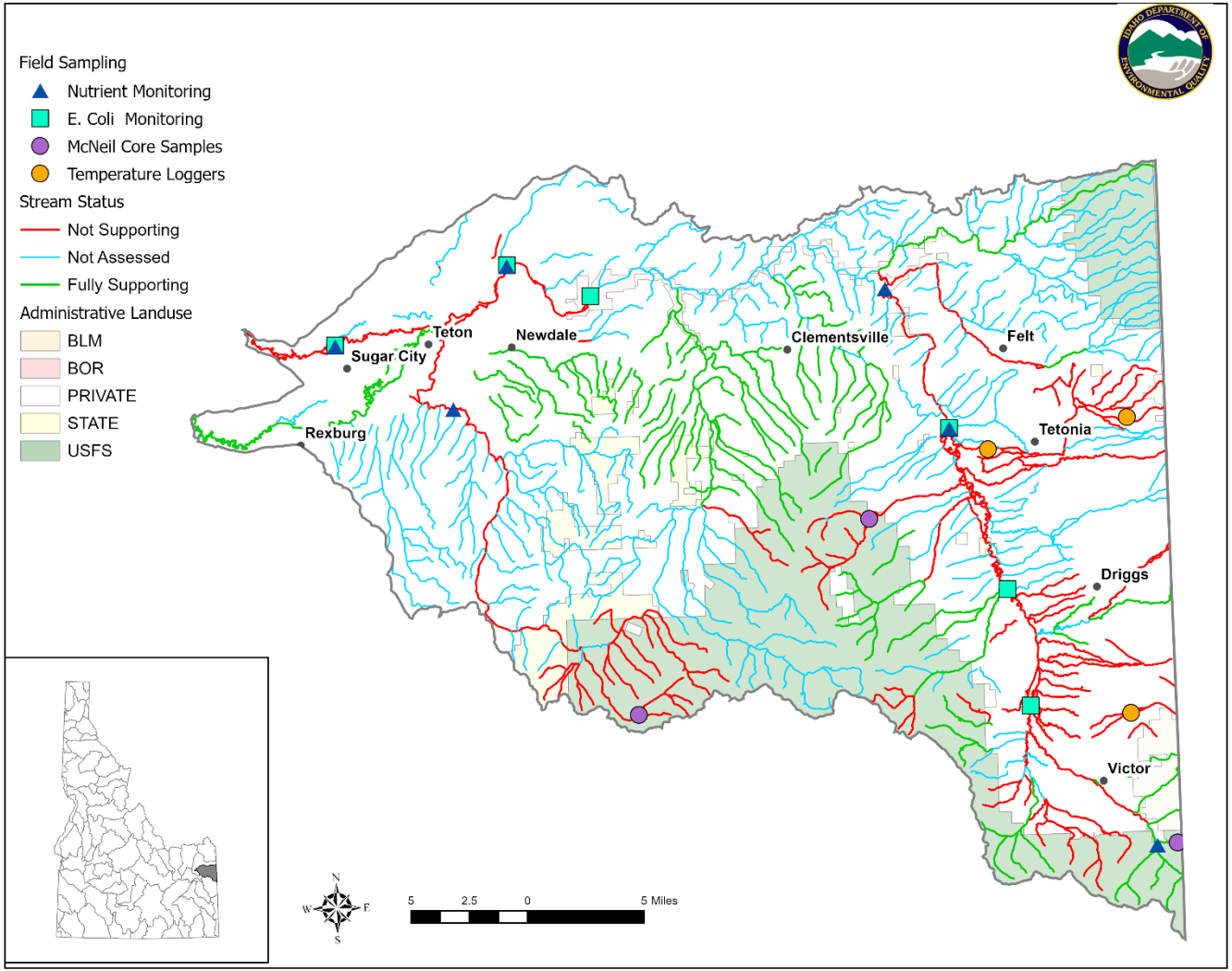
2016 – 6 Sediment, 10 Temperature, 3 E.coli

Status


Number of TMDLs
30
25
20
15
10
5
0
E.coli
Nitrate
Phosphorus
Sediment
Temperature

Teton River TMDL and 5-year Review

- Collect and summarize WQ data since 2016
- Review existing TMDLs
- Develop new TMDLs
- Delist impaired waters


Field Sampling
Nutrient Monitoring
E. Coli Monitoring
McNeil Core Samples
Temperature Loggers
Stream Status
Not Supporting
Not Assessed
Fully Supporting
Administrative Landuse
BLM
BOR
PRIVATE
STATE
USFS
Teton
Sugar City
Newdale
Clementsville
Felt
Rexburg
Tetonia
Driggs
Victor
N
W
E
S
5
2.5
0
5 Miles

Grab Sampling

- **E.Coli**
- **Nutrients:**
  - **Total P**
  - **Ortho-P**
  - **Nitrite –**
  - **Nitrate**
  - **Total N**

McNeil Cores


07/18/2024


07/18/2024

Teton River Watershed Advisory Group

Seeking Membership!

The WAG is currently seeking the following representation:

- Agriculture
- Livestock
- Local government
- Tribal
- Water-based recreation
- Forestry and forest products
- Environmental
- Local member at large

Contact me: alex.bell@deq.Idaho.gov / 208-528-2679


Questions?