



Utah Water Quality Act, Title 19-5 Legislative Sunset Review, July 18, 2018 Erica Brown Gaddis, PhD, Director

Utah Water Quality Regulatory Framework

DWQ Program Purpose

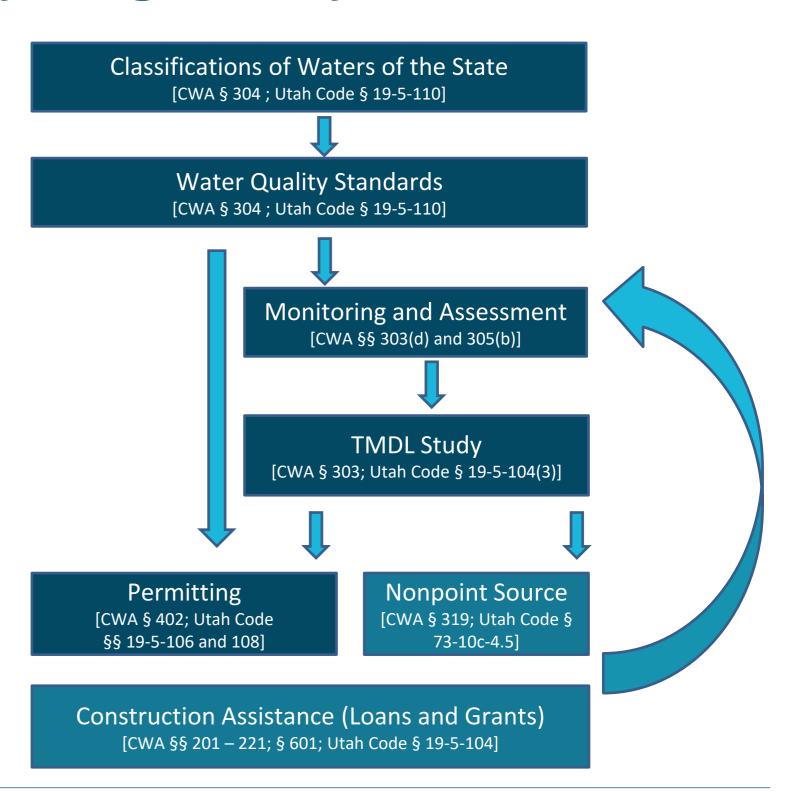
To protect, maintain and enhance the quality of Utah's surface and underground waters to protect beneficial uses and public health.

Clean Water Act

Restore and Maintain the Chemical, Physical, and Biological Integrity of the Nation's Waters

Certification of Federal permits [CWA § 401; Utah Code § 19-5-106]

Incident Response/Enforcement [CWA §§ 311 and 402; Utah Code §§ 19-5-107, 114, 115]



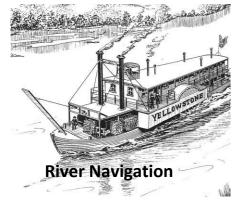


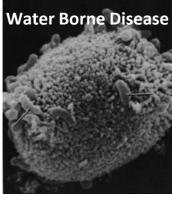
Utah's Water Quality Program Authority

	Rivers and Streams	Lakes/Reservoirs	Wetlands	Ground Water
				Artesian Well Water Table Unconfined Aquifer Clay Confined Aquifer
Utah's Waters	14,250 perennial miles 171,760 total miles	1,552,078 acres	510,359 acres	Extensive aquifer systems
Standards				LONG .
Water Quality Assessment				
Total Maximum Daily Loads				
Discharge Permits				LAUN.
Nonpoint Source				
WQ Certifications				



Program History









River and Harbors Act

Federal Water Pollution Control Act

Federal Water Quality Act

Federal Clean Water Act





















Utah's first water quality regulations in health code

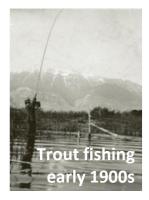
Utah delegated primacy of Clean Water Act Programs

Title 19-5 Utah Water Quality Act enacted

Implementing rules

Title 19-5 reauthorized

Title 19-5 sunsets















Summary of Utah's Clean Water Programs

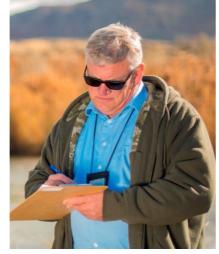






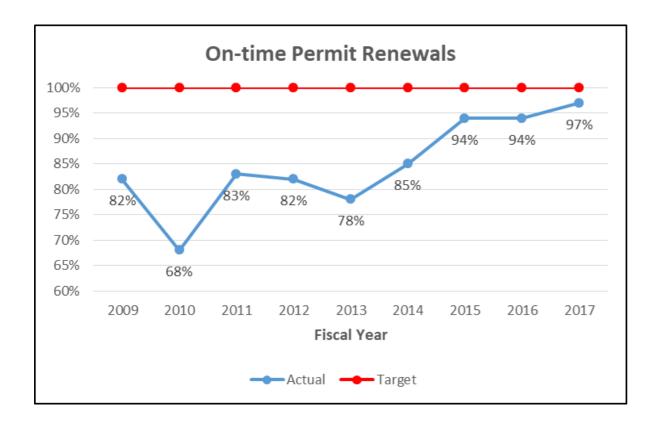
- 487 UPDES permits regulate the discharge of 110 billion gallons of treated municipal wastewater to Utah's waters
- 4,000+ storm water permits
- 50 ground water permits
- 100 operating permits
- 10 20/yr 401 WQ Certifications
- \$700 million loan funds to Utah's communities since 1983 supporting \$1.5 billion in infrastructure
 - Moab WWTP
 - Salem City WWTP
 - Logan WWTP
- \$800,000/yr nonpoint source projects
- ➤ 100 TMDLs and watershed plans
- > 4,000 monitoring sites
- ➤ Respond to 50 100 incidents per year

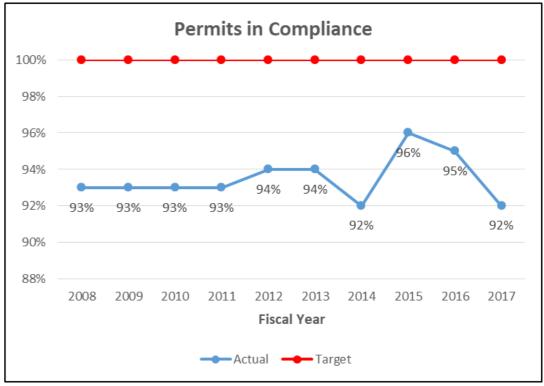






Permit performance metrics





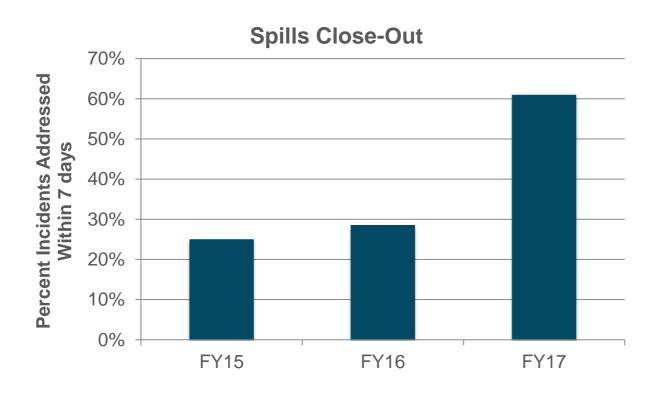


Spill Response

- ➤ 50 100 spills per year
- Over half are petroleum spills
- Large and complex spills
- ➤ FY17 New FTE Spill Coordinator



Price River Oil Spill 2018





Tibble Fork Sediment Release 2016

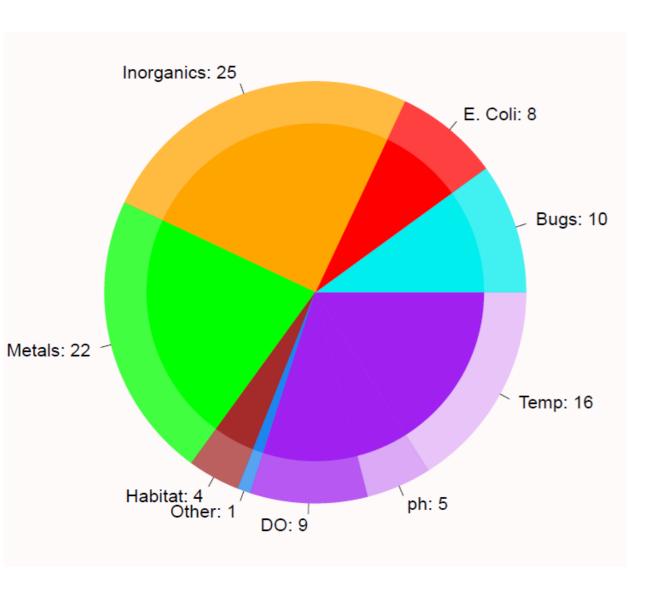


Gold King Mine Release 2015

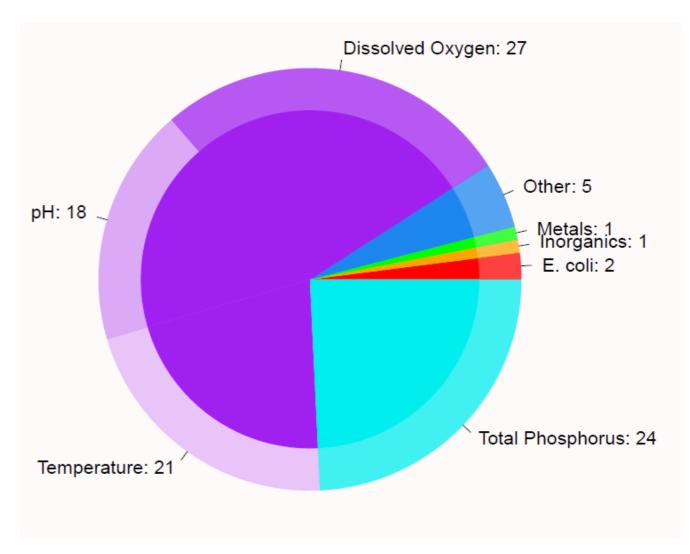


Water Quality Assessment (2016)

Streams 43% stream miles impaired

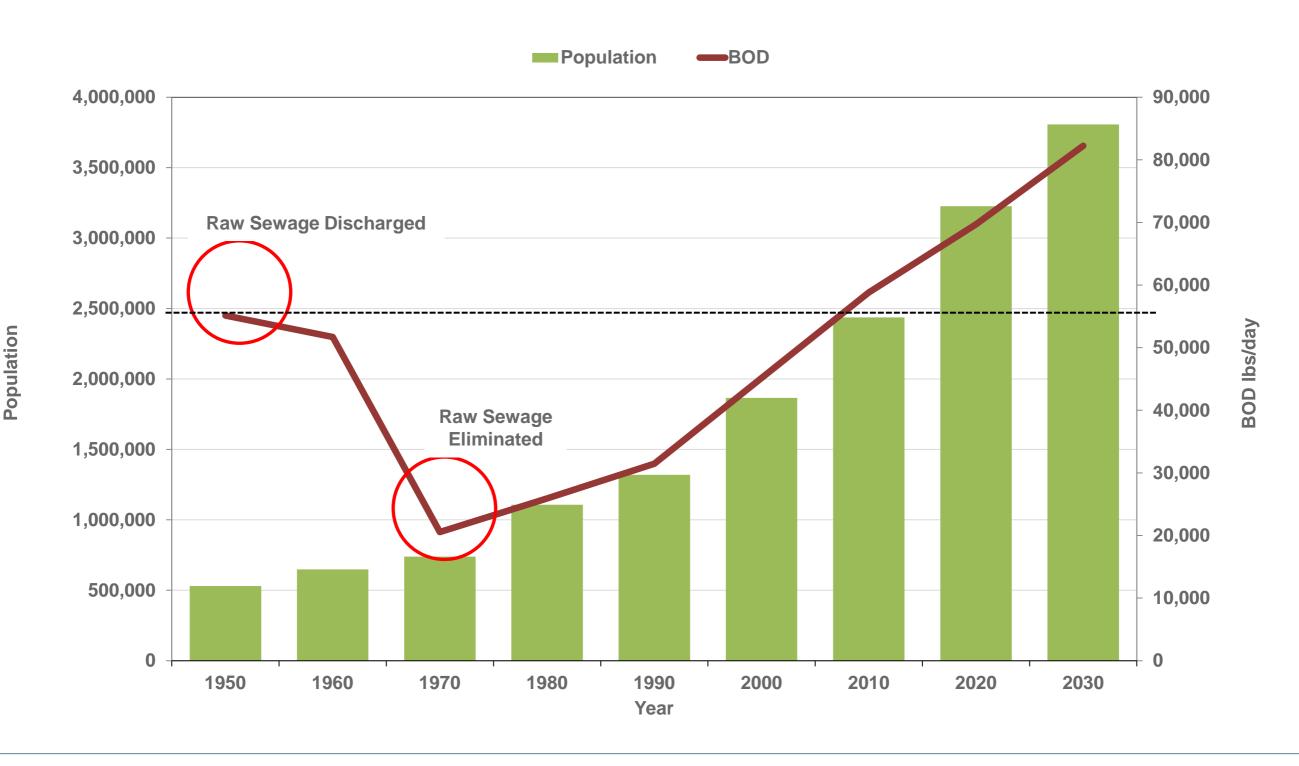


Lakes 36% lake acres impaired



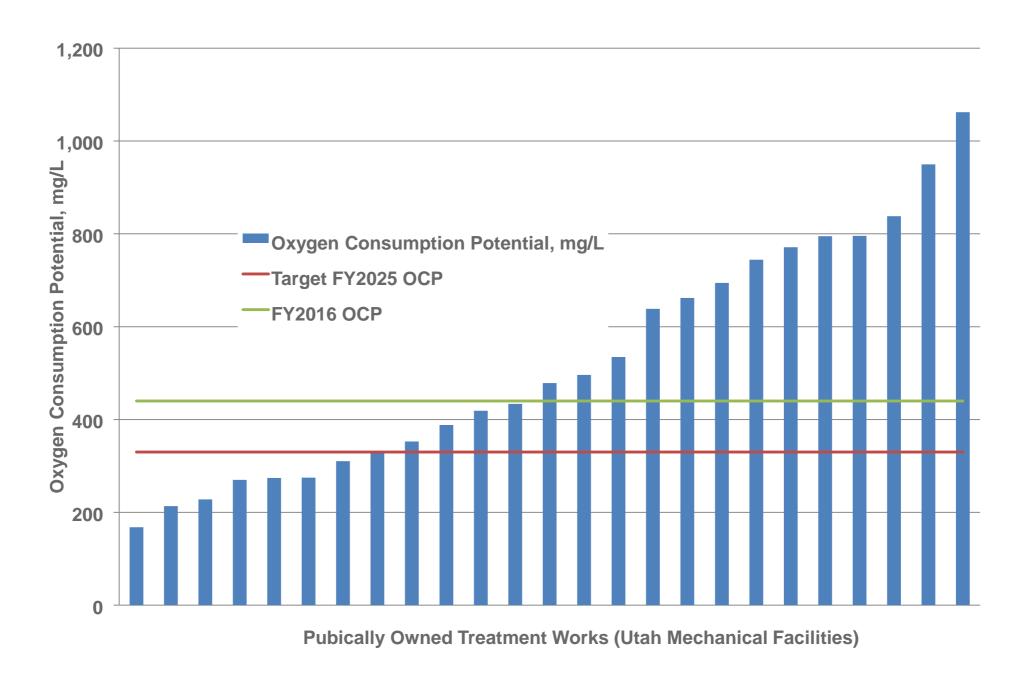


Growth and Pollutant Loading





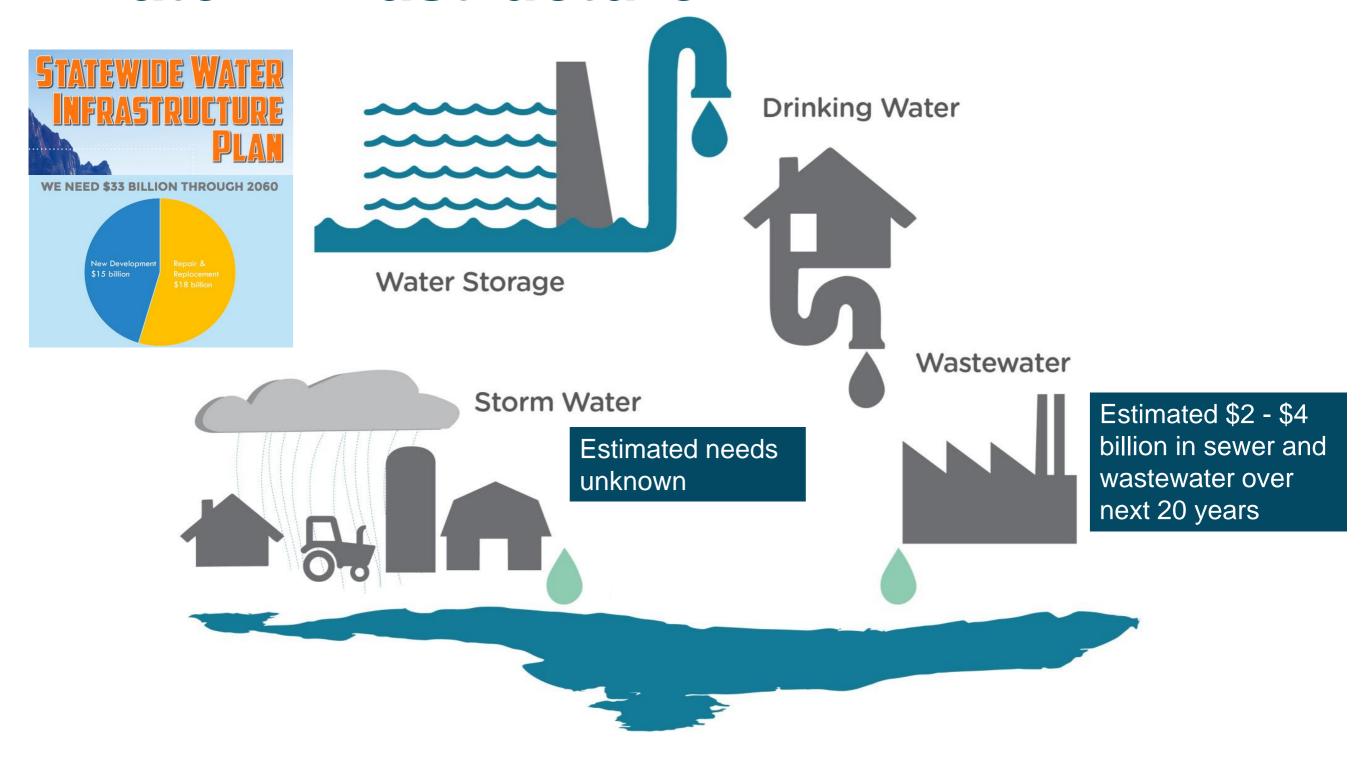
Wastewater Treatment Plant Performance



Oxygen Consumption Potential integrates Biological Oxygen Demand (BOD), Ammonia, Nitrate + Nitrite, and Total Phosphorus



Water Infrastructure



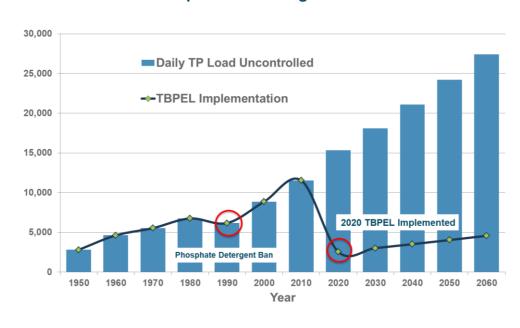


Utah's Nutrient Strategy



Headwater Numeric Nutrient Criteria

Utah Phosphorus Loading to State Waters



Hold the Line state-wide with Technology Based Phosphorus Effluent Limit

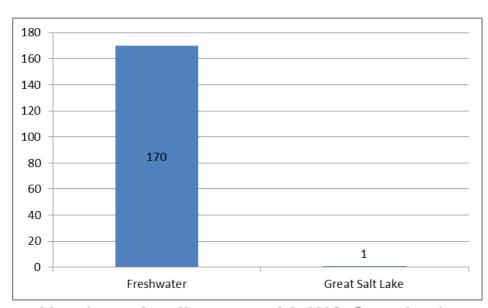


Develop site-specific nutrient standards for major waters

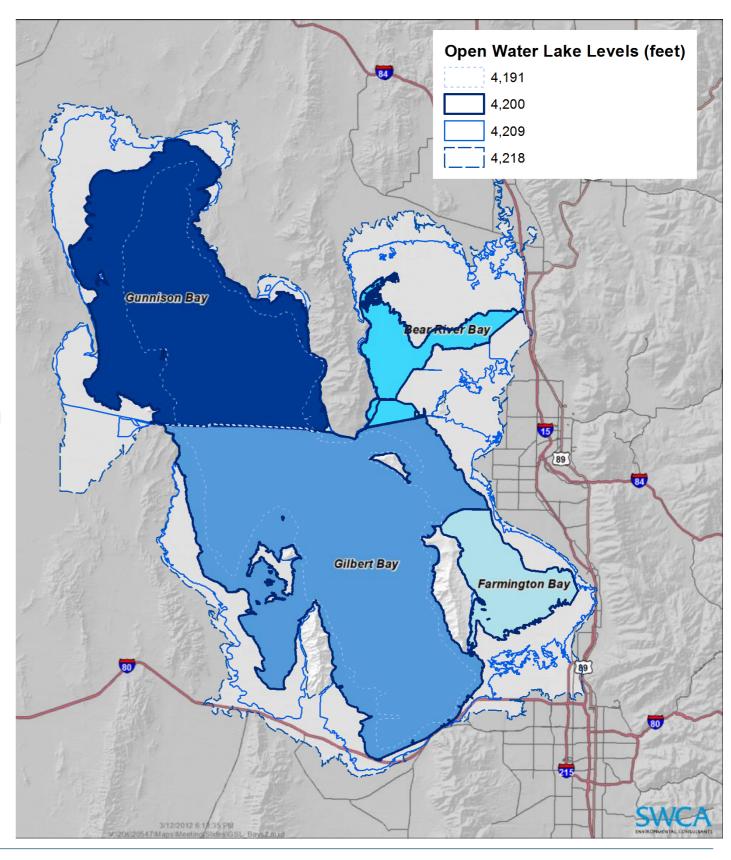


Great Salt Lake

- Industrial contribution to Utah's economy of \$1.6 billion/yr
- Migratory flyway of hemispheric importance
- Ultimately receives 80% of Utah's wastewater
- Dramatic fluctuation and recent decline in lake level



Number of pollutants with WQ Standards





Great Salt Lake Water Quality Strategy



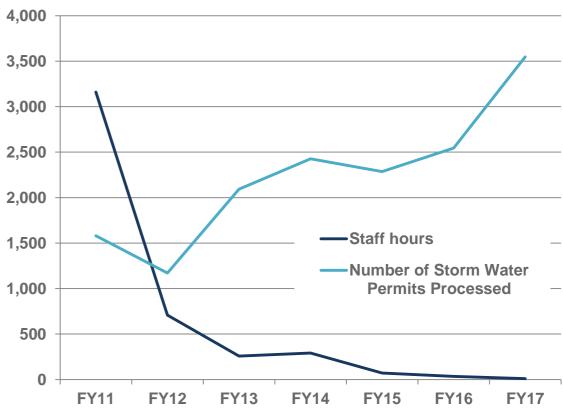


Storm Water Program

Improved permit efficiency
Promoting Low Impact Development
Expand in-state inspection and
compliance

Integration with other programs
Expanded outreach and training







Collaboration and Outreach

It is how we do business......

Commissions, Councils, and Workgroups

Utah Lake Commission

Jordan River Commission

Bear River Commission

Utah Conservation Commission

Great Salt Lake Advisory Council

Weber River Watershed Partnership

Western States Water Council

Great Salt Lake Advisory Council

Colorado Salinity Forum

Water Quality and Health Advisory Panel

Utah Lake Water Quality Study

Nutrient Core Team

AFO/CAFO Workgroup

Water Quality Task Force

Water Quality Standards Workgroup

Utah Storm Water Advisory Committee

Water Environment Association of Utah

Active Partnerships

Local Health Departments

Municipalities and water districts

State Agencies

Federal Agencies

Industry Associations

Watershed groups

Elected officials





If Not Reauthorized

EPA becomes lead agency implementing Clean Water Act in Utah

Loss of state ground water protection program

Loss of Utah's commitment to its citizens to protect and restore waters of the State

Loss of state-led collaboration with local, state, federal, and private partners to find optimal solutions to Utah's water quality issues





Recommend reauthorization of Utah Water Quality Act (Title 19-5) for 10 years (2029)

