

# Activities and Services Report Fiscal Year 2022

## Gallatin Local Water Quality District



Created by resolution in 1995, the district covers 1,299 square miles within Gallatin County, encompassing a vast terrain that is dissected by rivers, streams, dotted by wetlands and underlain by a vast geologic aquifer system, the source of many Gallatin Valley residents' drinking water. The interconnectedness of these resources drives the movement of water across the landscape towards the Missouri Headwaters confluence. Within its boundaries, the district performs a variety of key functions and is focused on the distribution of information about the quality and quantity of water in the Gallatin Valley.

At its core, the GLWQD engages citizens to inform and update them about what is happening with water. Our work is guided by understanding the conditions within our flagship monitoring programs: a groundwater monitoring well network, and the ecological conditions at 16 stream and river sites that make up the district's surface water monitoring network. Recent work in these programs and others that further GLWQD's goal in Gallatin County include:

### SURFACE WATER MONITORING NETWORK

StreamTeams Volunteers ('21) monitored during an intense drought year: data will be assessed by District staff to understand the effect of drought on our local streams and rivers.

### GROUNDWATER MONITORING NETWORK

Surveying a network of dedicated groundwater monitoring wells throughout the valley to understand changes in aquifer levels and hydrochemistry through time.

### BELGRADE NITRATE PROJECT

Characterizing conditions in a groundwater-fed spring creek and its surrounding landscape to assess potential sources of impairment; partnering with researchers at MSU Extension Water Quality service to compare conditions in and across several spring creeks.

### BIG SKY NUTRIENT MONITORING PROJECT

District staff worked to collate, compile, and quantitatively summarize monitoring data on nutrients like nitrogen and phosphorus that fuel algal blooms in the W. Fork Gallatin.



*GLWQD staff conduct fieldwork at a site near Belgrade.*

### HIGHLIGHTS & SUCCESSES

- Dissemination of water-quality data for the first time since January 2020!
- 12 StreamTeams volunteer citizen scientists engaged in monitoring
- Over 75 Montana fifth graders learned about river insects at Monforton School Bug Days, 2021
- Surface water and groundwater network equipment update—Flowtracker2 and GeoSub pump
- 87 wells pumped and characterized; 348 well water levels measured; 21 piezometers installed; ~1,200 surface water data points collected
- 48 subdivision applications reviewed for potential adverse impacts to water resources
- 54 MSU Well Educated Test kits distributed
- 7,600 Website Views @ glwqd.org

**The Mission of the Gallatin Local Water Quality District is to protect, preserve, and improve the quality of groundwater and surface water in the District.**



## STAFF

Nick Banish (District Manager)  
Torie Haraldson (Water Quality Specialist)  
Meggie Olson (Water Quality Specialist)  
Drew Shafer (Field Technician)

## BOARD OF DIRECTORS

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Many of our projects reflect a cooperative effort with a variety of stakeholders:



## Contact us:

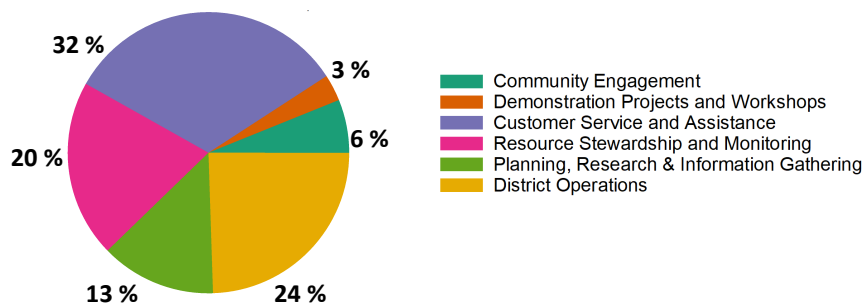
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# Gallatin Local Water Quality District

## FY 2022 AT A GLANCE

The GLWQD Five-Year Strategic Plan (2019-2024) guides District activities to address ongoing and developing water-resources concerns within the District. Activities this year focused primarily on resource stewardship and monitoring, data collection and field-work, volunteer training and engagement and providing citizens with information about their domestic drinking water wells.

## PROJECTS AND PROGRAMS BY TYPE



The GLWQD is subject to State transparency and accountability laws. Montana code requires public meetings, open records, annual audits and financial reporting to the State of Montana. Our income and expenses for the Fiscal Year 2022:

## Expenses

Personnel	\$252,316
Fixed Charges	\$21,393
Operations	\$41,656
Capital Machinery + Eqpt.	\$16,182
Professional Services	\$23,724
<b>Total</b>	<b>\$355,270</b>

## Income Sources

District Fees	\$304,538
Contracts and Grants	\$3,375
Investment Earnings	\$1,617
Delinquent Assessments	\$2,062
Miscellaneous Revenue	\$129
<b>Total</b>	<b>\$311,720</b>



Equipment upgrades during FY22 enhanced monitoring programs.



GLWQD staff contributed towards furthering the mission of the District during FY 2022. Sometimes we have fun, too!