



Would recreational use of Carvins Cove be impacted?

No. Visitors will still be able to enjoy recreation at Carvins Cove. The need to preserve the drinking water supply, recreational options, and tourism benefits of Carvins Cove has been shared with Google throughout its site selection process. Google has committed to recreation improvements and investments if needed.

Proposed Data Center in Botetourt County

Water Supply FAQs



How much water is Google planning to use?

Initially, this project will require no more than 2-million gallons of water per day (MGD). We do not anticipate that Google will use this volume daily, and usage will fluctuate seasonally. One of the reasons Google was interested in locating in Botetourt is because the quality of Carvins Cove water allows them to be far more efficient in how much water they may use. While other sites would only be able to run the water through the cooling process once or twice, Carvins Cove's water quality allows for it to be used repeatedly, reducing their overall demand on the water supply.



Does the Authority currently have enough water and system capacity to support this project?

Yes. The Authority has the current capacity to meet the needs of this project. Initially, water for this project would come from Carvins Cove Reservoir, which holds about 6.4 billion gallons at full pond. The Carvins Cove Water Treatment Facility currently produces 10-12 MGD, with treatment capacity of 24 MGD. Future expansion studies and sources will be funded by Google and Botetourt County.



Does the Authority decide which customers come to the region?

No. Development is a role that is managed by each locality. However, the localities do consult closely with the Authority to make sure that the drinking water and wastewater treatment needs of current customers and new development opportunities can be met.



Would customers have to pay for new infrastructure and water used by Google?

No. Like any customer, Google would pay for the water and wastewater services they use. Like any developer, they will be responsible for the costs to improve infrastructure and deliver water to their site.



Has the Authority considered a new water source for Botetourt County?

Yes. With or without a data center, Botetourt County will need a new water source to meet the long range needs of the growing County and surrounding region. Google is providing funding to study opportunities to improve existing sources and identify new water supplies. Botetourt County will pay to develop future sources. While we have adequate water through 2060, these two funding sources would allow the Authority to identify and build a new water source with reduced financial impact on our current rate payers.



I have a private well. Will this impact my groundwater?

Decades of data have shown that surface withdrawal and reservoir storage from the Carvins Cove Reservoir is not directly related to ground water well availability in the Daleville area. The water chemistry is very different in the Daleville area compared to Carvins Cove. (See table below.) The geology of Carvins Cove watershed is primarily shale and sandstone, whereas the Daleville area is primarily limestone. Limestone is able to recharge groundwater aquifers more rapidly than shale. Carvins Cove has overall better water quality, which is the primary reason why Botetourt joined the Authority in 2015.

	Alkalinity	Hardness	Iron
Carvins Cove Reservoir	39 ppm	53 ppm	0.024 ppm
Greenfield Area Wells	295 ppm	688 ppm	0.4 ppm

*Data reported in Consumer Confidence Report

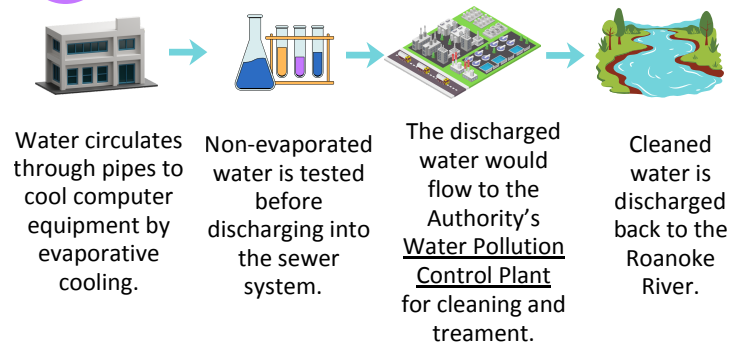


What would Google have to do during a drought?

The Authority maintains a Drought Contingency Plan, which is triggered by declining reservoir levels at Carvins Cove during different months of the year. The Authority has not had to implement the drought contingency plan during its 20-year history. Google will be subject to the Authority's Drought Contingency Plan and General Business Rules and Regulations, the same as any other customer of the Authority.



What happens to Google's wastewater?





Project Overview

Botetourt County officials announced in June 2025 that Google has purchased land in the Botetourt Center at Greenfield. The land is zoned for industrial use, and Google is considering a data center at this location. The Western Virginia Water Authority is working to meet the utility needs of this potential new customer and balance those needs with the essential service the Authority provides all our customers.

About the Western Virginia Water Authority

The Western Virginia Water Authority is a regional water and wastewater utility serving customers in the City of Roanoke, the Counties of Roanoke, Franklin, Botetourt, and the Towns of Vinton and Boones Mill.



21 MILLION

**GALLONS OF DRINKING
WATER TREATED PER DAY**



70,000

**CUSTOMER
CONNECTIONS**



2,500 MILES

**WATER AND SEWER
MAINS**



\$53,894,315

**TOTAL INVESTED IN
CAPITAL PROJECTS
IN 2025**



32 MILLION

**GALLONS OF
WASTEWATER TREATED
PER DAY**



4,000

**LAB SAMPLES
COLLECTED EACH
MONTH**

Our Region's Drinking Water Sources



**Carvins
Cove
Reservoir**



**Spring
Hollow
Reservoir**



**Smith
Mountain
Lake**



**Crystal
and Muse
Springs**



**Falling
Creek
Reservoir**



**Beaverdam
Creek
Reservoir**



Where can I learn more?

Visit the Botetourt County website for updates: www.botetourtva.gov
For additional FAQs and to read additional resources, visit our website
www.westernvawater.org/datacenter

