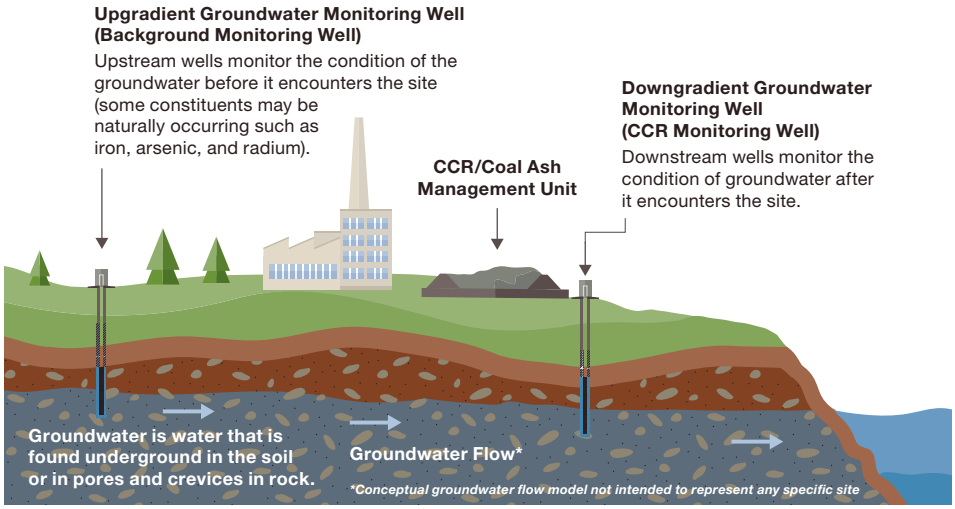
Groundwater Monitoring: Gallatin Fossil Plant

Ensuring the protection of water resources

Why We Monitor

As part of our commitment to environmental stewardship and in compliance with state and federal regulations, TVA continues to monitor the groundwater quality at the site to ensure water resources are not impacted by our coal ash management units. This fact sheet summarizes TVA's robust monitoring network program and provides the most recent monitoring results reported under federal regulations.



How We Monitor

We maintain a robust network of monitoring wells that we sample regularly for groundwater quality. Many of the constituents in coal ash are naturally occurring in rocks and soil, which makes it important to understand groundwater quality before it reaches the site. That's why we typically install monitoring wells both before and after groundwater reaches the site. We proactively report the results to regulators and post the results on the TVA website.

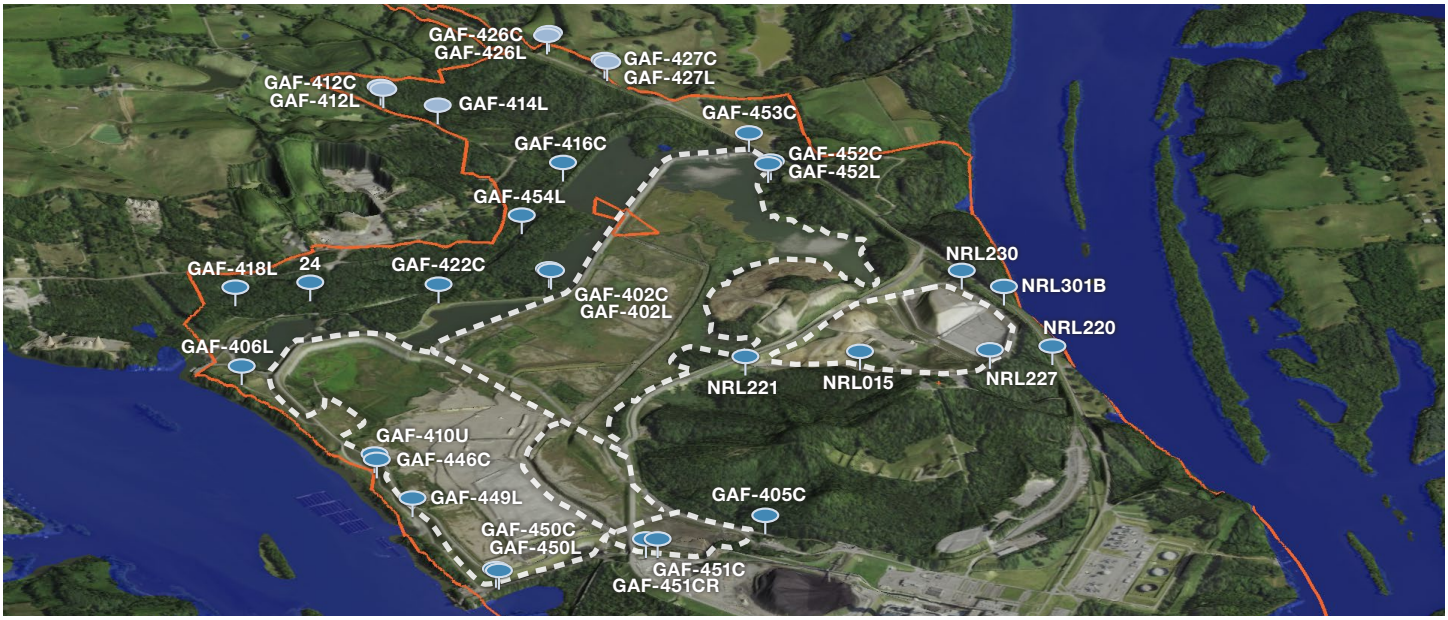


Image shown is a rendering, well locations are approximate.

Background Monitoring Well

CCR Monitoring Well

CCR Unit Subject to CCR Rule

TVA Property Boundary

For more information on our robust groundwater monitoring program please go to: www.tva.com/environment/coal-ash.

APRIL 2021

Results of Assessment Monitoring for 2020

2020		GROUNDWATER QUALITY MONITORING WELL LOCATIONS												
		Background Wells							CCR Monitoring Wells					
Constituent	GWPS mg/L	GAF-412C	GAF-412L	GAF-414L	GAF-426C	GAF-426L	GAF-427C	GAF-427L	24	GAF-422C	GAF-402C	GAF-402L	GAF-416C	GAF-453C
Antimony	0.006	●	●	●	●	●	●	●	●	●	●	●	●	●
Arsenic	0.01	●	●	●	●	●	●	●	●	●	●	●	●	●
Barium	2	●	●	●	●	●	●	●	●	●	●	●	●	●
Beryllium	0.004	●	●	●	●	●	●	●	●	●	●	●	●	●
Cadmium	0.005	●	●	●	●	●	●	●	●	●	●	●	●	●
Chromium	0.1	●	●	●	●	●	●	●	●	●	●	●	●	●
Cobalt	0.006	●	●	●	●	●	●	●	●	●	●	●	●	●
Fluoride	4	●	●	●	●	●	●	●	●	●	●	●	●	●
Lead	0.015	●	●	●	●	●	●	●	●	●	●	●	●	●
Lithium	0.04	●	●	●	●	●	●	●	●	●	●	●	●	●
Mercury	0.002	●	●	●	●	●	●	●	●	●	●	●	●	●
Molybdenum	0.1	●	●	●	●	●	●	●	●	●	●	●	●	●
Rad226+228	5 pCi/L	●	●	●	●	●	●	●	●	●	●	●	●	●
Selenium	0.05	●	●	●	●	●	●	●	●	●	●	●	●	●
Thallium	0.002	●	●	●	●	●	●	●	●	●	●	●	●	●

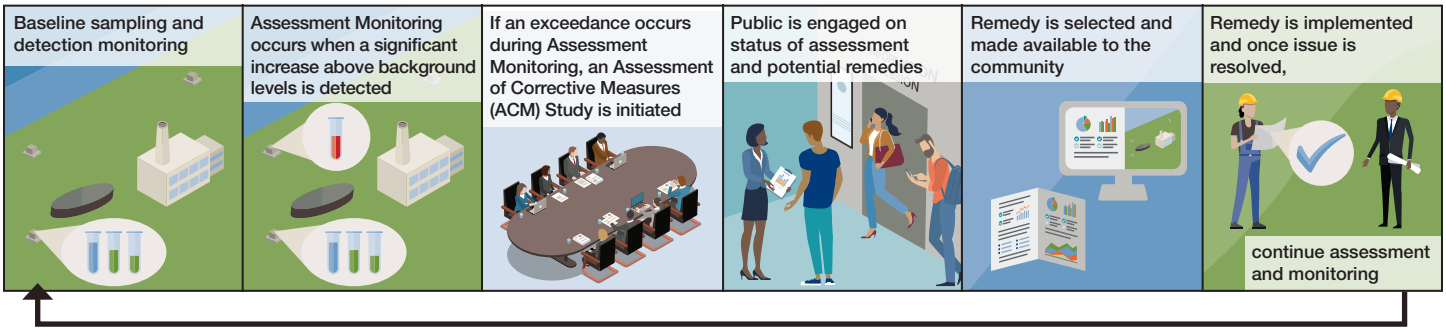
2020		GROUNDWATER QUALITY MONITORING WELL LOCATIONS									
		CCR Monitoring Wells									
Constituent	GWPS mg/L	GAF-452C	GAF-452L	GAF-406L	GAF-410U	GAF-446C	GAF-449L	GAF-450C	GAF-450L	GAF-451C	GAF-405C
Antimony	0.006	●	●	●	●	●	●	●	●	●	●
Arsenic	0.01	●	●	●	●	●	●	●	●	●	●
Barium	2	●	●	●	●	●	●	●	●	●	●
Beryllium	0.004	●	●	●	●	●	●	●	●	●	●
Cadmium	0.005	●	●	●	●	●	●	●	●	●	●
Chromium	0.1	●	●	●	●	●	●	●	●	●	●
Cobalt	0.006	●	●	●	●	●	●	●	●	●	●
Fluoride	4	●	●	●	●	●	●	●	●	●	●
Lead	0.015	●	●	●	●	●	●	●	●	●	●
Lithium	0.04	●	●	●	●	●	●	●	●	●	●
Mercury	0.002	●	●	●	●	●	●	●	●	●	●
Molybdenum	0.1	●	●	●	●	●	●	●	●	●	●
Rad226+228	5 pCi/L	●	●	●	●	●	●	●	●	●	●
Selenium	0.05	●	●	●	●	●	●	●	●	●	●
Thallium	0.002	●	●	●	●	●	●	●	●	●	●

Color Coding Key

- ● Monitoring data results are below groundwater protection standards (GWPS)
- ● Monitoring data results are below GWPS, but results are 65% or more of the GWPS
- ● Monitoring data results exceed GWPS (TVA has initiated and completed assessment of corrective measures report)
- ● Successfully completed alternate source demonstration shows that the Ash Pond Complex is not the source of the SSLs

Monitoring and Remedy Process Under Federal Regulations

Below are the steps that TVA takes to understand groundwater conditions and resolve any issues that are detected as a part of our robust monitoring.



Should action be required to address an issue, the public is notified and corrective measures are taken. As the issue is resolved, monitoring continues. This is a cycle that continues as part of our robust monitoring program.

Next Steps

TVA will continue to monitor and assess groundwater testing results and take the steps necessary to preserve and protect the quality of the environment and surrounding community.

TVA will not waiver from our commitment to protecting water resources.