

Triumph Quarterly Monitoring Results Factsheet

Beginning in fall 2022, DEQ initiated quarterly water quality monitoring of groundwater wells, mine portal drainage, and key surface water sites in the vicinity of the old Triumph Mine site. The quarterly monitoring is expected to continue for a minimum of 2 years.

DEQ performed the water quality monitoring to assess the status of the Triumph Mine cleanup. The approved cleanup plan is the Record of Decision (ROD) from 1998.

The attached map highlights some of the quarterly monitoring results. Water samples are analyzed for various constituents including metals which are known, or suspected, to be present or elevated due to the historic mining activities.

Of the highlighted constituents, the metals arsenic, lead, and manganese were identified in the original ROD as chemicals of concern. The remaining constituents monitored by DEQ (iron, sulfates, and total dissolved solids) have been known, or are suspected, to be elevated in mine-impacted waters. Exposure to some metals, such as arsenic, lead, and manganese, can be dangerous to human health. While people use and interact with metals every day, certain heavy metals are toxic in elevated concentrations.



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Triumph Quarterly Monitoring Results

The water monitoring results illustrated on the attached map are color coded in comparison to the groundwater quality standards provided in Tables I and II of Idaho's "Groundwater Quality Rule" (IDAPA 58.01.11). The groundwater quality standards may vary from drinking water standards but are applicable for comparison purposes for this monitoring.

The two community wells, GW-1 and GW-3 are used as sources of drinking water. All other remaining wells sampled were installed as groundwater monitoring wells.

Groundwater monitoring wells are installed to monitor water quality and do not meet the same intention and construction criteria as drinking (potable) water wells. Health information about the constituents of concern related to the Triumph Mine area (arsenic, lead, iron, manganese, sulfate, and total dissolved solids) are available at the link below or by scanning the QR code.

deq.idaho.gov/Triumph



Idaho's Groundwater Quality Standards and Drinking Water Standards

Water Quality Constituent	Groundwater Quality Standard (mg/L)	Drinking Water Maximum Contaminant Limits (mg/L)
Arsenic (As)*	0.05	0.01
Lead (Pb)*	0.015	0.015
Iron (Fe)	0.3	
Manganese (Mn)	0.05	
Sulfate (SO4)	250	
Total Dissolved Solids (TDSs)	500	

*Primary constituent (arsenic and lead) standards are based on the protection of human health.

Secondary constituent standards are based on aesthetic qualities such as color and taste. However, some constituents do have health advisory levels. Health advisories provide information on some secondary constituents that may cause human health effects at elevated concentrations.

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