INTERLABORATORY COMPARISON OF SURFACE AND GROUNDWATER MONITORING RESULTS AT THE STIBNITE GOLD PROJECT SITE, 2025

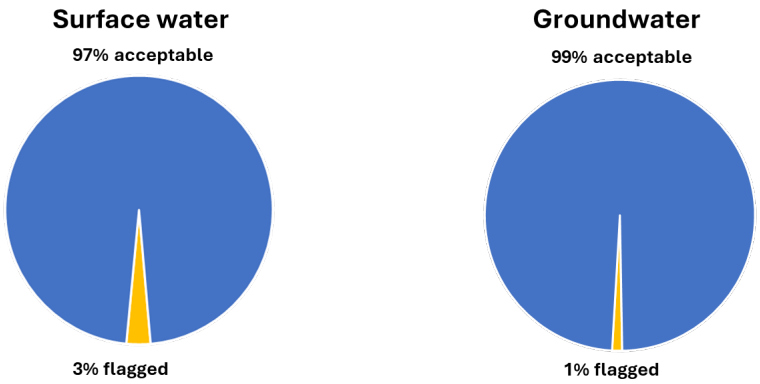

Figure 1. The proportion of acceptable and flagged data from surface and groundwater sampling at the Stibnite Gold Project site in 2025.

Summary

In conjunction with the Stibnite Advisory Council, the University of Idaho was contracted to independently verify groundwater and surface water quality analyses from the Stibnite Project site. Groundwater samples were collected from 8 sites plus 2 quality control sites on July 16, 2025. Surface water samples were collected from 9 sites along with 2 quality control sites on August 6, 2025. A total of 25 water quality parameters were evaluated for each of the groundwater and surface water samples resulting in a total of 250 and 275 site-analyte combinations, respectively. The primary objective of this study is to quantify differences in analyte concentrations measured by Anatek Labs in Moscow, Idaho and SVL Analytical in Kellogg, Idaho.

Methods

Collection of ground and surface water for laboratory analysis occurred via split sampling, that is the separation of a water sample into two parts such that each part was representative of the original sample. Water was taken from a single source (e.g., a groundwater well or stream) then divided in two, with each sample analyzed by Anatek Labs (Moscow, ID) and SVL Analytical (Kellogg, ID).

Results

Results of the 275 surface water analyte comparisons indicated that 97% (n=267) were acceptable and 3% (n=8) were flagged (Figure 1). Results of the 250 ground water analyte comparisons indicated that 99% (n=247) were acceptable and 1% (n=3) were flagged. The majority of flagged surface water comparisons were for very low concentrations of total mercury close to analytical detection limits.

Conclusions

Based on the results of surface and groundwater quality comparisons in 2025 it can be concluded that there was strong interlaboratory agreement for both surface and groundwater results between Anatek and SVL laboratories.

Perpetua Resources

STIBNITE ADVISORY COUNCIL

Anatek Labs

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