**"No Unauthorized Discharge to Waters of the U.S." (Mine Site)**

| Project Feature | Source of Groundwater Flow | FEIS/Permit Application Assumed Flow Rate to Groundwater (gpm) |
|---|---|---|
| **Tailings Basin** | Flow bypassing FTB Seepage Containment System | 20[1] |
| **Category 2/3 Waste Rock Stockpile (Temporary)** | Liner leakage | 0.019[2] |
| **Ore Surge Pile (Temporary)** | Liner leakage | 0.0012[2] |
| **Wastewater Treatment Facility (WWTF) Equalization Basins** | Liner leakage | 0.014[2] |
| **Overburden Storage and Laydown Area** | Infiltration | 14[2] |
| **Category 1 Waste Rock Stockpile** | Flow bypassing Category 1 Stockpile Groundwater Containment System | 6.8[3] |

(1) Information from Table 5.2.2-37 of the FEIS
(2) Information from Table 5.2.2-27 of the FEIS
(3) Mine Year 11 (maximum) flow to bedrock that bypasses the containment system and does not discharge to the West Pit. Information from Section 5.2.2 (p.5-145) of the FEIS

**Overview of Proposed Performance Monitoring (Mine Site):**

- Monitor the performance of engineering infrastructure
- Includes monitoring wells, paired monitoring wells, paired piezometers, and stockpile underdrains (or equivalent)

| Station Type | Location | Purpose | How it will be evaluated |
|---|---|---|---|
| Surficial well(s) | Downgradient of WWTF | Monitor performance of WWTF liner system | Compare water quality with baseline data |
| Underdrain sumps or equivalent[1] | Downgradient of stockpiles | Monitor performance of stockpile liner systems | Compare surficial aquifer water quality with baseline data |
| Surficial paired wells and piezometers | Along containment system cutoff wall | Monitor performance of Category 1 Waste Rock Stockpile Groundwater Containment System | • Monthly comparison of interior and exterior water levels for hydraulic head<br>• Quarterly evaluation of exterior water quality in wells |

(1) If future geotechnical investigations determine that underdrain systems are not needed for stockpile stability, then these monitoring stations will be lysimeters or monitoring wells, installed at locations on the downgradient perimeter of the stockpiles.

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