THE STIBNITE GOLD PROJECT
ENVIRONMENTAL OUTCOMES

February 2022

RESPONSIBLE MINERAL PRODUCTION

Perpetua Resources' vision for the Stibnite Gold Project has always been to use responsible mining to provide uplift to the existing environmental conditions at the abandoned Stibnite Mining District and provide benefit to our communities. By listening to our communities and working through the scientific interagency permitting process, we have been able to refine our project design and further improve environmental outcomes.

PERMITTING PROCESS IMPROVES PROJECT DESIGN

2016: Plan of Restoration and Operations (PRO) Submitted to U.S. Forest Service for review under the National Environmental Policy Act (NEPA).

2019: After years of interagency review, data analysis and predictive modeling to estimate potential impacts to air quality, surface water and groundwater quality, etc., Perpetua submitted the Modified Plan of Restoration and Operations (ModPRO) to U.S. Forest Service.

2020: U.S. Forest Service published the Draft Environmental Impact Statement (DEIS) for public review and comment which included 5 alternatives. Alternative 2 represented the ModPRO design and Perpetua's preferred option.

2020: After review of the DEIS public comments, Perpetua submitted revisions to the Alternative 2 project design which are referred to as the Modified Plan of Restoration and Operations 2 (ModPRO2). The refinements were designed to reduce the project footprint, improve water quality, and reduce water temperature.

2021-2022: The U.S. Forest Service and cooperating agencies have performed an extensive review of Perpetua's refined proposed action (ModPRO2), including additional water modeling, sensitivity analyses, fisheries modeling and habitat analysis.

2022: Perpetua anticipates the U.S. Forest Service will release a Supplemental Draft Environmental Impact Statement (SDEIS) for additional agency and public review in early Q3 of 2022.

Perpetua Resources

PROPOSED CHANGES TO MODPRO

- Reduced the total volume of mined material by 10% (44 million tons).
- Reduced disturbance from open pits by 7% (37 acres).
- Reduced the size of Hangar Flats pit by 70%.
- Completely backfill Hangar Flats pit.
- Eliminated the Fiddle Development Rock Storage Facility, reducing project disturbance by 168 acres.
- Added more geosynthetic covers to features on site.
- Increased riparian vegetation to lower stream temperature.
- Added habitat feature to East Fork South Fork Salmon River to replace bull trout habitat.
- Modified ore processing circuit to improve tailings chemistry.

ANTICIPATED IMPROVED OUTCOMES OF MODPRO2

- **13% reduction in project footprint** over original design.
- **20+ miles of habitat opened** for migrating fish.
- **96% reduction in arsenic in Meadow Creek** (below Tailings Storage Facility) vs. existing conditions.
- **40% reduction in arsenic in EFSF Salmon River** (below Sugar Creek) vs. existing conditions.
- **140% uplift in wetlands quality** (wetland functional units).
- **63% net increase in wetland** acres vs. existing conditions.
- **9.5% uplift in stream habitat quality** (stream functional units).
- **Water temperature reduced** to be at, or below, existing conditions.
- **60% reduction in mercury emissions** over original project design to be less than 20% of applicable EPA standards.