



Highland Valley Copper 2040 Fact Sheet: Water Management



About Highland Valley Copper 2040

Teck's **Highland Valley Copper Operations (HVC)** is proposing the Highland Valley Copper 2040 Project (HVC 2040) to extend the life of the operation to at least 2040, through an extension of the existing site infrastructure. HVC 2040 allows for the continuation of social and economic benefits, while also helping to meet the growing demand for copper driven by the transition to a low-carbon future. HVC 2040 would yield approximately 1.95 billion tonnes of additional copper over the life of the Project.

HVC is committed to protecting water quality. HVC has been operating responsibly for decades and extensive water management and mitigation programs have evolved over the years to protect water quality and quantity downstream of our operations.

Mine Water Management Plan Overview

Water management is an essential component of mine planning to ensure sufficient availability of water for operations and to ensure HVC uses water efficiently and responsibly. The integrated approach to water management supports coordination of production, sustainability, and efficiency while meeting the needs of stakeholders and communities of interest during all stages of mine development and reclamation.

Teck has approved a Water Policy that commits to:

- Applying consistently strong and transparent water governance
- Managing water at operations efficiently and effectively
- Collaborating to achieve responsible and sustainable water use

In addition, up to 80% of the water used at HVC is reused through the tailings storage facility, helping to sustain this valuable resource.

By taking an integrated approach to water management, HVC will continue our drive towards sustainable mining. An example of water management at HVC is the Sulphate Adaptive Management Plan, which identifies strategies to address elevated sulphate concentrations in Pukaist Creek downstream of the L-L Dam. Through the implementation of this plan, sulphate levels have started to decrease in Pukaist Creek.



Historical flows from Woods Creek to Pukaist Creek have been re-established through the installation of the Woods Creek Diversion, enhancing groundwater control for downstream land users and ecosystems.



Through the Sulphate Adaptive Management Plan, interception wells were installed starting in 2017 to capture seepage and return it to the Highland Tailings Storage Facility.

HVC 2040 Water Management

HVC 2040 will require additional make-up water to support an increase in mine processing. Deepening the Valley Pit will also require additional groundwater dewatering. Additional make-up water will come in part from this groundwater and from increased reuse of water from the tailings storage facility. Additional groundwater dewatering will be managed through site-wide water management strategies.

Through the environmental assessment process, HVC will conduct surface water quality and quantity modelling and groundwater modelling to determine potential surface or groundwater impacts as a result of construction, operation, and closure of the Project. The modelling work will inform the development of any necessary additional mitigation measures.

HVC is developing the 2040 Mine Water Management Plan to provide strategies and designs for the Project that are aligned with, and complement, the existing HVC Mine Water Management Plan.

Engagement and Assessment Processes

As the Mine Water Management Plan continues to be adaptively managed and updated, HVC will reach out to Indigenous Governments and Organizations and other stakeholders for input. This feedback will help the Mine Water Management Plan continue to meet the needs of local communities. An updated plan will be developed as part of the Indigenous-led and Provincial assessment processes.

Engage with Us

Throughout both the construction and operation of HVC 2040, HVC will continue to monitor water quality and quantity in, and around, HVC, to protect this resource through evolving mitigation and management strategies. We want to hear from you about our water management and the future of HVC. Email HVC2040.feedback@teck.com or call 1.855.523.3429 to share your feedback, and visit [teck.com](https://www.teck.com) to learn more.