

Tailings Management

2023 Highlights

Zero significant tailings-related environmental incidents

16 Facility Summaries published, including conformance status, per the Global Industry Standard for Tailings Management (GISTM)

5 tailings governance reviews performed, per our annual review schedule

100% of our tailings facilities completed annual evaluations performed by a third-party Engineer of Record

GRI Indicators

2-23, 2-24, 3-3, 306-3, 306-4, 306-5, G4-MM3

This topic is considered material by our employees, local communities, government regulators, investors and society in the context of all Teck sites.

How Does Teck Manage This Topic?

Information about how we manage tailings, including relevant policies, management practices, systems and topic boundaries, is available for [download on our website](#).



Case Study: GeoStable Tailings Consortium — Innovation in Sustainable Tailings Management

Teck is committed to the safe and environmentally responsible management of tailings throughout their life cycle, and we are dedicated to fostering innovation and collaborating within the industry to improve tailings practices. We are one of eight mining companies that have partnered to form the GeoStable Tailings Consortium (GSTC). The consortium aims to develop innovative technology tools for enhancing the performance of tailings, while minimizing environmental impact through a variety of development activities including laboratory testing, field trials and data analysis. The consortium will also advocate best practices in tailings and waste management, fostering a culture of continuous improvement throughout the mining industry.

Read the full case study at www.teck.com/news/stories.

Our Performance in Tailings Management in 2023

Our Targets and Commitments We are committed to the safe and environmentally responsible management of our tailings facilities, throughout the mining life cycle, to minimize harm to the environment and protect the health and safety of our people and surrounding communities of interest (COIs). The following table summarizes our performance against our sustainability strategy and goals for tailings management.

Sustainability Strategy Goals	Status	Summary of Progress in 2023
Strategic Priority: Continue to manage our tailings across their life cycle in a safe and environmentally responsible way		
Goal: Preferentially consider milling and tailings technologies that use less water, both for new mines and for any mine life extensions at existing mines.	On track	Collaborated with industry peers in research and development activities, including the GeoStable Tailings Consortium, an association of eight mining companies that aims to develop innovative technology for tailings management. See the case study to the left for more details.
Goal: Expand the use of digitally connected surveillance technologies to assist in monitoring our tailings storage facilities.	On track	Implemented a Digital Tailings Management System at Carmen de Andacollo (CdA) and Quebrada Blanca (QB) to assist in monitoring our tailings storage facilities.

Global and Industry Context

Tailings production is inherent to mining and mineral processing and, if not properly managed, has the potential to have a significant impact on communities, local economies and the surrounding environment. While the design and management of tailings storage facilities have progressed significantly, it is recognized that responsible and effective management of tailings facilities throughout the mining life cycle is critical to avoid incidents of failure and the risks that they pose.

Teck is committed to improving the safety and transparency of tailings facilities through various actions, including the implementation of international standards, such as the Global Industry Standard on Tailings Management (GISTM) and the Mining Association of Canada (MAC) Towards Sustainable Mining (TSM) initiative, including the TSM Tailings Management Protocol. These standards are supported by best practice technical and tailings management guidance from organizations like the Canadian Dam Association (CDA) and the International Commission on Large Dams, which also inform Teck’s governance program.

Tailings Management

To support our commitments, our tailings facilities are subject to our tailings stewardship program, which includes a range of regular internal and external reviews that can create opportunities for continuous improvement. When appropriate, and aligned with best practices, we develop action plans based on the findings and regularly assess their implementation progress.

In 2023, Teck managed 14 active and 29 inactive or closed tailings facilities.¹⁶ Of these, we have one active upstream tailings facility and eight inactive or closed upstream facilities. In addition, Teck has five active and 32 inactive or closed coarse coal refuse (CCR) stacks, which are also managed under our tailings stewardship program. All of Teck’s operating and closed tailings facilities are designed to meet or exceed regulatory requirements, and we continually improve their management through the development and incorporation of best available techniques and practices.

Teck also has non-operated joint venture interests with an operating tailings facility at Antamina in Peru, and an inactive tailings facility at the legacy NorthMet mine in the U.S.

Teck additionally has a copper growth pipeline of five projects at varying stage of development, and each of these projects will have an associated tailings facility. These projects include:

- Galore Creek in Canada
- San Nicolás in Mexico
- NewRange in the U.S. (legacy NorthMet mine)
- NuevaUnión in Chile
- Zafranal in Peru

This year we also published our new Board-approved [Tailings Management Policy](#), which is aligned with the GISTM and provides the overarching commitment and direction for the management of our facilities.

Global Industry Standard on Tailings Management (GISTM)

Teck is committed to the implementation of the GISTM across our facilities in all jurisdictions. In August 2023, Teck publicly reported on conformance with the GISTM, which included facility summaries for active and inactive extreme and very high consequence tailings facilities. Across all these facilities, Teck is near-full conformance with the standard, and implementation of action plans to close minor gaps for its achievement is underway.

Facility summaries for operating tailings facilities with consequence classifications of low, significant and high were also published. Similarly, Teck is in near-full GISTM conformance at these facilities, and we plan to achieve full conformance by August 2025. More information on the GISTM and Teck’s participation and performance, including our GISTM-related disclosures, can be found in [Our Approach to Tailings Management](#) and on [our website](#).

Tailings Reviews

Internal and external reviews of our facilities and procedures are conducted to ensure we maintain the highest standard of safety and environmental protection, including following best practice guidance set by MAC and ICMM. Beyond the comprehensive internal and external reviews, an additional level of facility oversight is in place for our tailings facilities through our Tailings Working Group, which includes subject matter experts from across our

business units and sites. This working group also maintains Teck’s Tailings Policy, Standards, Procedures and Guidance. Accountable executives, who report to the President and CEO and the Board of Directors, are ultimately responsible for the governance of tailings at Teck sites. See [Our Approach to Tailings Management](#) for more details on accountability.

Internal Reviews

Staff Inspections

Tailings dams are inspected by trained operators and expert technical staff as frequently as several times daily, with formal staff inspections at least once per month.

Tailings Governance Reviews

Tailings Governance Reviews are carried out by internal subject matter experts every three years for our operating sites, legacy facilities and development projects. These reviews include confirmation that we have the personnel and procedures in place to meet our commitments, and that we are addressing recommendations for continual improvement from our external reviews in a meaningful and timely manner. In some cases, Tailings Governance Reviews may be integrated with similar reviews of water management governance.

Tailings Governance Reviews also evaluate the performance of our Engineers of Record and other external reviewers and look for signs of complacency or lack of succession planning by those outside of Teck who we rely upon as part of our overall management processes. At our Antamina joint venture, we have a similar process in place with the other shareholders of the mine that meets the requirements of our governance review process.

No significant findings related to dam safety were identified in the governance review process in 2023, although several opportunities to further develop existing systems were identified and are being actioned by the relevant sites. As an outcome from our ongoing Tailings Governance Review process and based on updates from MAC and ICMM guidelines, we have strengthened our guidance related to change management, roles and responsibilities, risk evaluation and identifying critical controls.

¹⁶On February 16, 2023, Teck closed the transaction to sell all the assets and liabilities of the Quintette steelmaking coal mine in northeastern British Columbia.

External Reviews

Annual Facility Performance Reports and Dam Safety Reviews

At all our active or inactive tailings facilities, an Annual Facility Performance Reports (AFPR) is conducted by an Engineer of Record, who is a fully licensed and qualified individual vetted by our Tailings Working Group.

Independent, qualified engineers also conduct periodic Dam Safety Reviews (DSRs), with timing dependent upon the nature of the facility. AFPRs and DSRs are conducted to evaluate the physical performance of the facility, as well as Teck's conformance to international best practices. AFPRs and other information about our tailings facilities, both operating and inactive, are available on our website at www.teck.com/tailings.

Independent Tailings Review Boards

In addition to the review work involved in the AFPRs and DSRs, another key element of Teck's review process is the use of Independent Tailings Review Boards. These boards typically consist of two to four senior individuals recognized within the industry as subject matter experts. The review board provides third-party review of design, operation, surveillance and maintenance of our storage facilities and will meet from at least once to multiple times per year, depending upon the nature of the facility and the issues being considered. The results from the Independent Tailings Review Board assessments are communicated directly to senior management.

Tailings Reviews Conducted in 2023

All of our tailings facilities are reviewed against our internal policy and guidance documentation on a regular schedule, as described in Table 11. In 2023, all tailings facilities at Teck had their AFPRs completed as planned. Independent Review Boards met at least once in 2023, with boards responsible for larger facilities meeting several times. Dam Safety Reviews and Teck's Tailings Governance Reviews were also completed as planned at all sites.

Table 11: Teck 2023 Tailings Review Status

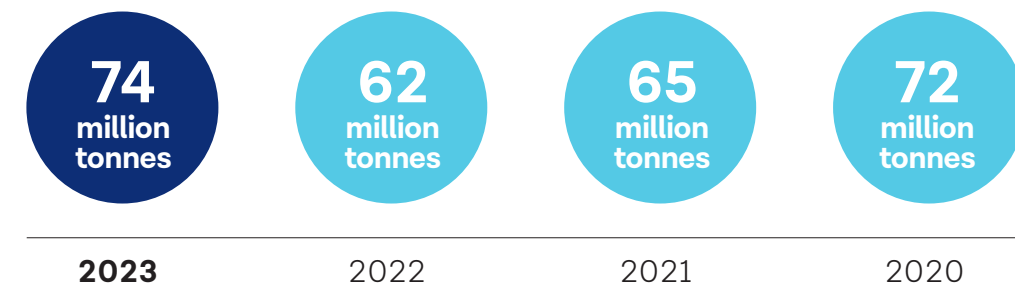
Business Unit	Site	Annual Facility Review	Dam Safety Review	Independent Review Board Activity	Tailings Governance Review	Comment
Base Metals	Antamina	●	■	●	2023	Joint venture (non-operator)
Base Metals	Carmen de Andacollo	●	■	●	2022	
Base Metals	Highland Valley Copper	●	■	●	2022	
Base Metals	Quebrada Blanca 2	●	■	●	2022	Operations commence in 2023
Base Metals	Red Dog	●	■	●	2023	
Copper Growth	NewRange	●	Planned for 2025	Established in 2023	Planned for 2024	Acquired joint venture interest in 2023
Steelmaking Coal	Elkview	●	■	●	2022	
Steelmaking Coal	Fording River	●	■	●	2021	
Steelmaking Coal	Greenhills	●	■	●	2022	
Steelmaking Coal	Line Creek	●	■	●	2023	
Legacy	Beaverdell	●	■	●	2021	
Legacy	Bullmoose	●	■	●	2021	
Legacy	Douglas	●	■	●	2023	Dry impoundment
Legacy	Duck Pond	●	■	●	2022	
Legacy	Fisherman Road	●	■	●	Planned for 2024	
Legacy	Lennard Shelf	●	■	Planned for 2024	2023	Dry stack
Legacy	Louvicourt	●	■	●	2023	
Legacy	Magmont	●	■	●	2022	
Legacy	Pend Oreille	●	■	●	2021	
Legacy	Pinchi	●	■	●	2021	
Legacy	Pine Point	●	■	●	2022	
Legacy	Sa Dena Hes	●	■	●	Planned for 2024	
Legacy	Sullivan	●	■	●	Planned for 2024	

● Completed as planned. ■ Dam Safety Reviews up to date per required frequency (between three and 10 years, dependent upon potential consequence).

Tailings Performance in 2023

Total tailings and fine coal refuse generated from processing ore and raw coal, stored in the 14 operating tailings facilities at our mining operations, are reported in Figure 17.

Figure 17: Tailings (including Fine Coal Refuse) Generated from Processing Ore and Raw Coal



Tailings Incidents

Building on our strong track record of tailings management, in 2023, we had zero significant incidents at our tailings storage facilities. All our facilities performed as intended, with their inspections and assorted internal and external reviews conducted as scheduled.

Technology and Innovation

After several years of development, Teck commissioned a Digital Tailings Management System (DTMS) at CdA and QB operations in 2023 to support the use of digitally connected surveillance technologies and to assist in monitoring our tailings storage facilities. This system centralizes and allows the use of data analytics for tailings facilities management aspects, including geotechnical monitoring, construction and operations. It allows Teck to monitor our tailings facilities in near-real time, quicken our response to events with Trigger Action Response Plans, and combine the best practices and technologies that we have available. This project directly supports our priority to manage tailings across their life cycle in a safe and environmentally responsible way.

Bathymetry surveys, or underwater surveys, provide information on water depth and the capacity of tailings facilities, allowing us to prepare safe and effective tailings deposition plans. At our Highland Valley Copper (HVC) Operations, autonomous bathymetry surveys use Copperstone Technologies’ autonomous vehicle, which uses the same tools as in the conventional survey method while following a predefined route guided by GPS. The autonomous bathymetry survey vehicle allows us to continue gathering accurate data to help responsibly manage our tailings facilities at HVC while improving efficiency and safety, and supporting our vision of safe and responsible management of tailings across their life cycle.

In 2023, Teck also partnered with the University of British Columbia to fund a professorship in Tailings Management and Innovation. The purpose of this role will be to advance research and implementation of new technologies and practices in tailings management; Teck will remain an active participant in that research and development.

Industry Association Activities

Teck was an active participant in the development of ICMM’s Tailings Position Statement and Governance Framework and is a participant in ICMM’s leadership work on a long-term goal of developing safe and sustainable alternatives to conventional wet tailings facilities. We actively supported the development of the ICMM Tailings Management Good Practice Guide and Conformance Protocols, which facilitate implementation of the GISTM.

Teck is also part of the MAC Tailings Working Group, which has been responsible for providing industry-leading best practice guidance, including key industry guidance documents. Teck continues to use the MAC Tailings Protocol’s Table of Conformance as one component of our Governance Review process at our sites.

Transparency and Disclosure

Teck remains committed to being open and transparent with communities of interest and other stakeholders regarding our tailings facilities, including community members, employees and contractors. We make information on our approach to tailings management, a detailed list of facilities and copies of recent AFPRs

available on [our website](#). We have also provided detailed information about our tailings facilities through responses to the Investor Mining and Tailings Safety Initiative chaired by the Church of England Pensions Board and the Council on Ethics of the Swedish AP Funds, in addition to our GISTM-related disclosures.