

Our Approach to Emergency Preparedness and Planning

Which Teck sites does this document apply to?

This document describes our approach to managing emergency preparedness and planning. This document applies to all Teck-controlled sites and projects, inclusive of contractor activities. This does not include operations in which Teck has/had an ownership interest but is not the principal operator.

Sustainability performance information: See our **Annual Sustainability Report**, available for download on our website.



Highland Valley Copper Operations, Canada. 2013.

Background

Mining can pose significant health, safety and environmental risks to employees and communities. Certain risks such as the health and safety of our workforce, and tailings management, have the potential to become emergencies if not managed properly.

We recognize that maintaining strong relationships with our communities of interest and ensuring business continuity depend on our ability to effectively manage risks and to be prepared to respond in a timely and appropriate manner, should an emergency occur. Tailings incidents at other companies in recent years have underscored for Teck the importance of continued focus on emergency response planning, preparedness and management systems.

The importance of emergency preparedness is reflected in the [International Council on Mining and Metals \(ICMM\) Mining Principles](#). ICMM Principle 4.4, which is to “implement effective risk-management strategies and systems based on sound science”, states that member companies must develop, maintain and test effective emergency response procedures in collaboration with potentially affected parties.

Governance and Accountability

Accountability and Resourcing

The Board of Directors, through its Safety and Sustainability Committee, broadly oversees health, safety, environment and community policies, systems, performance and auditing, including implementation of Teck’s sustainability-related standards (Sustainability

Standards). These standards include emergency preparedness and planning.

The following senior leaders at the corporate level are involved in implementing emergency preparedness and planning activities:

- Teck’s Director, Risk, Security & Loss Control reports to the Senior Vice President and General Counsel and is responsible for ensuring that Teck has complete and current emergency protocols and pre-plans in place. The Director is also responsible for ensuring that operations and joint ventures practise scenario training and crisis management exercises to ensure that local crisis management teams have the ability to manage crises associated with their respective operation. Additionally, the Director conducts crisis management planning, including the testing of communications systems and practices at Teck in the event of an emergency.

Memberships, Partnerships and External Commitments

Teck works with numerous local, national and international organizations and programs to support and improve our approach to emergency planning and preparedness:

- **International Council on Mining and Metals (ICMM):** A global industry association that represents leading international mining and metals companies who are required to implement the ICMM Principles, the Position Statements and the Performance Expectations, which include criteria for risk management.

- **Mining Association of Canada (MAC)—Towards Sustainable Mining (TSM):** A Canadian industry association that promotes the development of the country’s mining and mineral processing industry, works with governments on policies applicable to the sector, and promotes the value that mining brings to the economy and daily life of Canadians while operating responsibly using the Towards Sustainable Mining Protocols.
- **The Copper Mark:** A multi-metals assurance framework developed by the International Copper Association to promote responsible practices and to demonstrate the transition minerals industry’s contribution to the United Nations Sustainable Development Goals.

Emergency Preparedness, Planning and Management at Teck

We identify a comprehensive range of potential events and ensure we are prepared to respond to, and recover from, these situations as quickly and effectively as possible. Potential risks are mitigated through robust risk management measures. Various scenarios are tested each year via simulated drills to evaluate the adequacy and effectiveness of our emergency planning and preparedness—including human and physical resources. Emergency preparedness and planning exercises are conducted at a corporate and site level as well as within the communities near our operations, as outlined in the following table.

Emergency Response Planning at Individual Sites

Components	Example
Clearly defined roles/responsibilities	<ul style="list-style-type: none"> • Identifying, equipping and training first responders
Emergency response guidelines and procedures	<ul style="list-style-type: none"> • Security • Medical • Fire and explosion • Special considerations (earthquake, avalanche, tailings dam breach)
Communications systems and procedures	<ul style="list-style-type: none"> • Establishing internal and external communications mechanisms • Call-out procedures • Musters and/or evacuations • Media management (reporters, social, etc.)
Response and control	<ul style="list-style-type: none"> • Organizational structure and responsibilities • Reviews and inspections (internal/external) • Capital replacement plans • Continuous improvement
Internal emergency response	<ul style="list-style-type: none"> • Plans for addressing emergencies within Teck’s facilities, including scope, personnel involved, training, facilities, equipment and maintenance
External emergency response	<ul style="list-style-type: none"> • Plans for addressing emergencies outside of Teck’s facilities, including mutual aid agreements, joint responsibilities and other agreements • Contractor service agreements • Medical treatments, including availability, means of transport and transport time
Testing and training for emergency situations	<ul style="list-style-type: none"> • Scheduling and conducting exercises and simulations • Ongoing tabletop reviews • Collaborative effort by operations, the Corporate Risk & Security Group—Crisis Management Team, and occasionally with multi-jurisdictional participation
Incident investigation procedures	<ul style="list-style-type: none"> • Maintaining documentation • Incident Cause Analysis Method (ICAM) or other form of investigation • Sharing of lessons learned

Emergency Preparedness at Corporate Offices, Sites and Communities

Corporate Risk & Security Group—Crisis Management Team	<ul style="list-style-type: none"> • Develops, maintains and designs Teck’s overall approach to risk management, including the risk management practices related to the development and oversight of sites’ mining emergency response plans, which includes annual review, design and development of crisis simulations and training at sites • Provides risk identification and analysis support for individual sites • Coordinates additional training, capacity building and simulations as necessary
Individual Sites	<ul style="list-style-type: none"> • Develop mining emergency response plans tailored to site-specific risks • Work closely with the Corporate Risk & Security Group to ensure alignment with Teck’s overall risk management approach and the global crisis management program • Conduct site-level training and simulations to ensure readiness and capabilities of response teams and emergency management teams • Coordinate with local stakeholders, including Indigenous groups
Local Communities	<ul style="list-style-type: none"> • Develop their own emergency preparedness and response plans • May collaborate and conduct joint simulations with adjacent Teck sites • May exchange information and best practices with adjacent and non-adjacent Teck sites

Our framework within Teck’s Global Risk Management Program guides the process of:

- Identifying hazards
- Assessing the risks associated with those hazards
- Applying relevant controls to minimize the potential risks
- Regularly checking effectiveness of controls
- Ensuring appropriate plans and resources are put in place to respond to emergencies that may occur

Standards for emergency preparedness are updated on a regular basis as required. With the support and guidance of our Enterprise Risk Group, each operation develops site-specific Mining Emergency Response Plans (MERPs) based upon those requirements and in alignment with Teck’s Corporate Crisis Management Plan (CMP). Teck’s CMP includes pandemic-related crisis management protocols, enacted previously during the SARS and H1N1 epidemics. We use these protocols and maintain a state of readiness for pandemic management. Emergency response plans and preparations are appropriate for site-specific conditions and are based on a range of credible—although extremely unlikely—incident scenarios.

In addition, each tailings facility has a Mine Emergency Response Plan, which is regularly reviewed and updated. We also review emergency response plans with our local communities and stakeholders, and undertake community meetings and emergency drills to work through these plans and to discuss our approach to tailings management. See [Our Approach to Tailings Management](#) for further information.

Business Continuity Planning

Teck’s business continuity program affirms our commitment to achieving operational excellence and continuous improvement by responsibly managing our risks across our operations and value chain. The program includes Teck’s Sustainability Standards and Crisis Management Plan, which supports the ability of operations and corporate offices to avoid, resist and recover from disruptive events. Reasonably foreseeable disruptive events are identified in site risk registers, with mitigation and avoidance measures in place. Operations maintain processes to support business continuity, including ensuring availability of trained personnel, equipment and supplies, and emergency response plans.

Assurance Related to Emergency Preparedness and Planning

Teck takes an effective, efficient, risk-focused and integrated approach to assurance activities, which ensures internal controls are appropriately designed and operating effectively. These assurance activities include:

- Risk assessments and control verification at sites and in business units
- Sustainability internal audits and mid-term effectiveness reviews conducted at sites by Teck’s Sustainability Assurance team
- Corporate annual internal audits conducted by Teck’s Assurance and Advisory team
- External assurance by independent auditors for relevant regulatory and voluntary membership requirements

Following each of these processes, applicable management teams use the results to inform future actions and Teck’s five-year planning process.

Assurance Related to Emergency Preparedness and Planning

Type	Organization	Items Reviewed
Internal	Teck (risk-based sustainability audits)	<ul style="list-style-type: none"> • Adherence to regulatory and permit requirements • Effectiveness of controls based on risk profile • Sustainability Standards
External	International Council on Mining and Metals: Sustainability Report Assurance and Performance Expectations	<ul style="list-style-type: none"> • Principle 4: Risk Management Implement effective risk-management strategies and systems based on sound science and which account for stakeholder perceptions of risks (Performance Expectation 4.4)
External	Mining Association of Canada: Towards Sustainable Mining (MAC TSM)	<ul style="list-style-type: none"> • TSM Crisis Management and Communication Protocol
External	The Copper Mark	<ul style="list-style-type: none"> • Issue area 12: Occupational Health and Safety • Issue area 14: Environmental Risk Management