



GISTM Principle 15 – August 2023 Public Disclosure

Homestake Mine
Grizzly Gulch TSF

5 August 2023

PRINCIPLE 15

Publicly disclose and provide access to information about the tailings facility to support public accountability.

REQUIREMENT 15.1

- A. For new tailings facilities for which the regulatory authorisation process has commenced, or that are otherwise approved by the Operator, the Operator shall publish and update, in accordance with Principle 21 of the UNGP, the following information:**

Requirement 15.1 A is not applicable as this is an existing facility.

- B. For each existing tailings facility and in accordance with Principle 21 of the UNGP, the Operator shall publish and update at least on an annual basis, the following information:**

- 1. A description of the tailings facility (information may be obtained from the output of Requirements 5.5 and 6.4)**

The Grizzly Gulch Tailings Storage Facility (Facility) is a closed facility owned by Homestake Mining Company, a subsidiary of Barrick Gold Corporation. The Facility consists of a zoned earth-rockfill dam with a clay core and was constructed in 4 stages to a maximum dam height of 122 meters, with the first 3 stages being constructed with a downstream construction method and the last stage constructed using a centerline construction method. The Facility operated from 1977 until 2002, when the Homestake Mine was closed, and contains approximately 36.4 million m³ of tailings.

- 2. The Consequence Classification (Requirement 4.1)**

Facility Consequence Classification

Current Classification	Classification used for Design
Extreme (GISTM 2020)	Category 1 (South Dakota DANR)

- 3. A summary of risk assessment findings relevant to the tailings facility (Information may be obtained from the output of Requirement 10.1)**

The TSF Risk Assessment was updated in June 2023 and no risk drivers were identified. The assessment confirmed that the measures implemented for the facility ensure the risk level is as low as reasonably practicable (ALARP).

4. A summary of impact assessments and of human exposure and vulnerability to tailings facility credible flow failure scenarios (Information may be obtained from the output of Requirements 2.4 and 3.3)

The most recent TSF Risk Assessment determined that no risk drivers exist for the facility. The updated dam breach and inundation study for the credible scenarios are under evaluation. As such, the assessment of human exposure and vulnerability was completed utilizing information from previous dam breach and inundation studies (2019 AECOM) and Emergency Preparedness Plan (EPP). The table below provides a summary of potentially material impacts to human health as a result of a highly unlikely catastrophic breach of the Grizzly Gulch Tailings Storage Facility.

Summary of Potentially Material Impacts

Aspect	Impact Description	Mitigation Measure(s)
Community: Evacuation areas	Residences, businesses, and churches located between the dam and West Strawberry Creek, along West Strawberry Creek, along Whitewood Creek, along Belle Fourche River; and in low laying areas in Lead, Deadwood, and Whitewood	In the event of an emergency, an evacuation would be initiated consistent with Homestake's Emergency Preparedness Plan (EPP). Address immediate needs of dislocated residents and facilities. Develop and implement reconstruction, restoration, and recovery plan.
Socio-Economic: Intrastate and State Highways	State Highway 79 between mile marker 126 and 128, US Interstate 90 between mile markers 24 and 26, US Highway 14A between mile markers 40 and 43, US Highway 85 from mile marker 26 to mile marker 42 on US Highway 14A, US Highway 385 from mile marker 122 to mile marker 26 on US Highway 85	In the case of an emergency, road closures would be put in place by emergency services, as outlined in the EPP. Develop and implement reconstruction, restoration, and recovery plan

Aspect	Impact Description	Mitigation Measure(s)
Community: Critical Infrastructure	Deadwood Police Department, Lawrence County Sherriff's Office and Lawrence County Jail, South Dakota Commission on Gaming Law Enforcement, Monument Health Lead-Deadwood Hospital, Lead-Deadwood Sanitary District, Lead-Deadwood Elementary, Lawrence County Health Department, Wheeler Lumber, LLC Manufacturing Facility, Deadwood Volunteer Fire Department, Northern Hills Alliance for Children First Step Childcare Center.	In the event of an emergency, an evacuation would be initiated consistent with the EPP. Address immediate needs of dislocated residents and facilities. Develop and implement reconstruction, restoration and recovery plan

5. A description of the design for all phases of the tailings facility lifecycle including the current and final height (Information may be obtained from the output of Requirement 5.5)

The Grizzly Gulch Tailings Facility is a valley-fill constructed facility, consisting of a starter dam and three subsequent raises. The starter dam and first two raises were constructed by the downstream method while the third raise was constructed using a centreline method.

The embankment is a zoned, earth-rockfill dam with a clay core, constructed with locally sourced materials. Internal drainage for the dam is provided by a chimney drain, located downstream of the core, and an abutment drainage blanket extending part way up the valley walls, connected to a drainage blanket in the valley bottom.

The underlying geology of the facility consists of mostly Precambrian schists and phyllites, locally overlain by Cambrian age sediments and intruded by younger Tertiary age rhyolite. Precambrian schists and phyllite underly the foundation of the dam embankment.

Each stage of the tailing facility has been engineered and the design, construction and closure of the facility was overseen by a qualified engineer and the appointed Engineer of Record. The table below summarizes the stages of construction.

Stages of Grizzly Gulch Dam Construction

Stage	Date	Height (m)
Starter Dam	1976-1977	71.6
Raise 1	1982-1983	15.2
Raise 2	1988-1989	15.2
Raise 3A	1999	9.2

Grizzly Gulch is a zero-discharge facility with no constructed spillway. A diversion canal conveys stormwater around the facility, intercepting upstream drainage flows. Flood storage capacity of the probable maximum flood plus the 100-year storm event are maintained throughout post-closure of the facility. An agreement with the South Dakota Science and Technology Authority (SDSTA) lab maintains flood storage capacity by removing water from the impoundment for water treatment prior to discharge to the environment.

6. A summary of material¹ findings of annual performance reviews and dam safety review (DSR), including implementation of mitigation measures to reduce risk to ALARP (Information may be obtained from output of Requirements 10.4 and 10.5)

Reference	Material Findings Summary	Mitigation Measures to Meet ALARP
2022 DSI	No material findings	None
2023 DSR	No material findings	None

7. A summary of material² findings of the environmental and social monitoring programme including implementation of mitigation measures (Requirement 7.5)

There were no material incidents or findings from the environmental and social monitoring programme for the period 2022 to date of publication.

¹ Material findings are findings that have a high probability of becoming or actual dam safety issues that require immediate attention and are considered immediately dangerous to life, health or the environment, a significant regulatory enforcement.

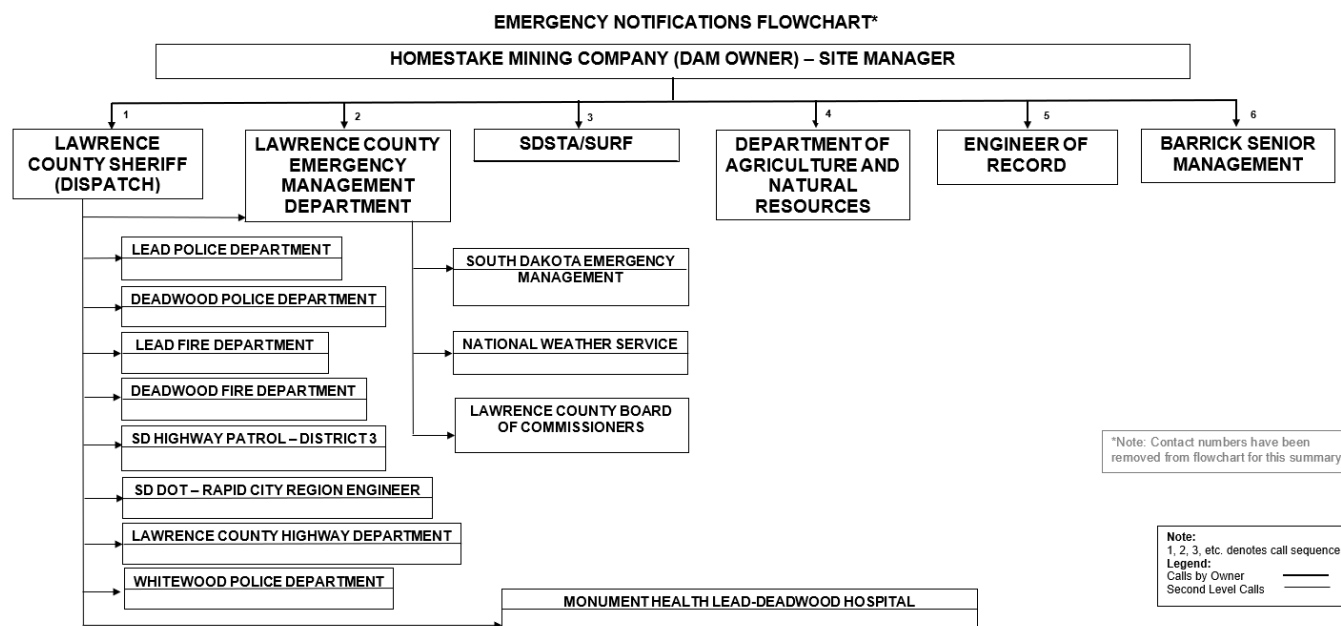
² An incident is considered material if it:

a) Causes significant negative impact on human health or the environment;
b) Extends onto publicly accessible land and has the potential to cause significant adverse impact to surrounding communities, livestock or wildlife;
c) Results in a breach of license conditions, the convention between the mine and government, or a violation of environmental regulations and standards or constitute releases above Reportable Quantities (RQs) any of which is immediately reportable to the government by law or other statute; or
d) Results in a release of cyanide (above 0.5 mg/l of WAD cyanide, confirmed by a certified third-party laboratory as above detection limit) to any surface water that leaves the site boundaries or any groundwater aquifer (whether on or off-site).

8. A summary version of the tailings facility EPRP for facilities that have a credible failure mode(s) that could lead to a flow failure event that:

- Informed by credible flow failure scenarios from the tailings facility breach analysis;
- Includes emergency response measures that apply to project affected people as Identified through the tailings facility breach analysis and involve cooperation with public sector agencies; and
- Excludes details of emergency preparedness measures that apply to the Operator's assets, or confidential information (Requirements 13.1 and 13.2).

The Emergency Preparedness and Response Plan (EPRP) provides a predetermined plan of action to be implemented in close coordination with emergency responders in the unlikely case of a dam safety emergency. It defines the roles and responsibilities of all entities involved, prioritizing the saving of lives, reducing damage to property, and minimizing impacts to the environment. The EPRP contains procedures and information to assist in assessing the situation, provide early warnings and identify maps of critical areas in the event of an emergency.



Roles and Responsibilities:

Homestake Mining Company:

- Review and update the EPRP annually, verifying emergency protocols and contact information.
- Coordinate exercises of EPRP and provide copies of updated EPRP to responding agencies.
- Monitor dam in accordance with Care and Maintenance Manual.

- In the case of an emergency: provide notifications, designate Incident Commander (transferred to designated Lawrence County Incident Commander if emergency potentially extends beyond the Homestake property), implement pre-established measures to prevent dam failure.

Incident Commander:

- Responsible for the coordination and overall management of the response.
- Initiate warnings and order evacuation of people at risk downstream of the dam.
- Notify local law enforcement to evacuate people and close roads.
- Decide when to terminate the emergency.

Local Emergency Official:

- Participate in exercises of EPRP.
- Maintain communication with media.
- In the case of an emergency: alert the public of the emergency, close roads and evacuate people located within the evacuation area.

9. Dates of most recent and next independent reviews (Requirement 10.5)**Dates of Independent Reviews**

	Latest Review	Previous Review
Independent Tailings Review Board (ITRB) Review #	May 2022	May 2012
Dam Safety Review (DSR)	July 2023	None

10. Annual confirmation that the Operator has adequate financial capacity (including insurance to the extent commercially reasonable) to cover estimated costs of planned closure, early closure, reclamation, and post-closure of the tailings facility and its appurtenant structures (Requirement 10.7)

Barrick has sufficient financial resources to meet its business requirements for the foreseeable future, including capital expenditures.

Please refer to Barrick Annual Report 'Financial Position and Liquidity' (page 111) and 'Contractual Obligations and Commitments' table (page 113).

[Barrick Annual Report 2022](#)

- C. Provide local authorities and emergency services with sufficient information derived from the breach analysis to enable effective disaster management planning (Information may be obtained from the output of Requirement 2.3).**

List of Documents Shared with Local Authorities and Emergency Services

Local Authorities or Emergency Services	Document
Lawrence County Sheriff (Dispatch)	Emergency Preparedness Plan – Grizzly Gulch Dam (Revised 2023)
Lawrence County Emergency Management Dept	Emergency Preparedness Plan – Grizzly Gulch Dam (Revised 2023)
Lawrence County Highway Department	Emergency Preparedness Plan – Grizzly Gulch Dam (Revised 2023)
Lawrence County Commission	Emergency Preparedness Plan – Grizzly Gulch Dam (Revised 2023)
South Dakota Emergency Management	Emergency Preparedness Plan – Grizzly Gulch Dam (Revised 2023)
SD Department of Agriculture & Natural Resources	Emergency Preparedness Plan – Grizzly Gulch Dam (Revised 2023)
South Dakota Highway Patrol	Emergency Preparedness Plan – Grizzly Gulch Dam (Revised 2023)
National Weather Service, Rapid City, SD	Emergency Preparedness Plan – Grizzly Gulch Dam (Revised 2023)

REQUIREMENT 15.2

- A. Respond in a systematic and timely manner to requests from interested and affected *stakeholders* for additional information *material* to the public safety and integrity of a *tailings facility*. When the request for information is denied, provide an explanation to the requesting *stakeholder*.**

Barrick is committed to the timely response to requests for additional information material to the public safety and integrity of their TSFs from interested and affected stakeholders. In the event that specific information cannot be shared with the requesting stakeholder, an explanation will be provided. Information on Barrick's Tailings Management policy and our Social Performance Policy can be found at the following links:

[Tailings Management Policy](#)

[Social Performance Policy](#)

REQUIREMENT 15.3

- A. Commit to cooperate in credible global transparency initiatives to create standardised, independent, industry-wide and publicly accessible databases, inventories or other information repositories about the safety and integrity of *tailings facilities*.**

Barrick is committed to global transparency around the public safety and integrity of our TSFs. A link to Barrick's Tailings Management Policy can be found here.

[Tailings Management Policy](#)

CAUTIONARY STATEMENT ON FORWARD-LOOKING INFORMATION [GRIZZLY GULCH TSF]

Certain information contained in Barrick's Global Industry Standard on Tailings Management ("GISTM") tailings disclosure ("GISTM Disclosure"), including any information as to the design and operation of Barrick's tailings facilities and Barrick's sustainability strategy and vision, projects, plans or future technical, or operating performance constitutes "forward-looking statements". All statements, other than statements of historical fact, are forward-looking statements. The words "target", "plan", "project", "develop", "estimate", "potential", "may", "will", "likely", "unlikely", "can", "could", "would" and similar expressions identify forward-looking statements. In particular, this GISTM Disclosure contains forward-looking statements including, without limitation, with respect to: the results of Barrick's annual performance and dam safety reviews and related mitigation measures for the Homestake Mine's Grizzly Gulch Tailings Storage Facility ("Grizzly Gulch TSF"), a closed facility owned by Homestake Mining Company, a subsidiary of Barrick; the design, storage capacity and lifecycle of Grizzly Gulch TSF; the potential environmental and social impacts of Grizzly Gulch TSF and related monitoring and risk assessments; the results of Barrick's tailings facility breach analysis and inundation studies including human exposure and vulnerability to flow failure scenarios, disaster management planning and emergency preparedness; and estimated costs associated with Grizzly Gulch TSF.

Forward-looking statements are necessarily based upon a number of estimates and assumptions that, while considered reasonable by the company as at the date of this Response in light of management's experience and perception of current conditions and expected developments, are inherently subject to significant business, economic and competitive uncertainties and contingencies. Known and unknown factors could cause actual results to differ materially from those projected in the forward-looking statements and undue reliance should not be placed on such statements and information. Such factors include, but are not limited to: operating or technical difficulties in connection with mining or development activities, including geotechnical challenges, tailings dam and storage facilities failures, including closed storage facility failures; physical and transition risks related to climate change, including extreme weather events and resource shortages; risk of loss due to acts of war, terrorism, sabotage and civil disturbances; changes in national and local government legislation, taxation, controls or regulations and/or changes in the administration of laws, policies and practice; political or economic development in South Dakota, the United States, or other states and countries in which Barrick does or may carry on business in the future; timing of receipt of, or failure to comply with, necessary permits and approvals; our ability to maintain relationships with public sector agencies and the communities surrounding the Grizzly Gulch TSF; contests over access to water, power and other required infrastructure; and disruptions in the maintenance or provision of required infrastructure and information technology systems. In addition, there are risks and hazards associated with the business of mineral exploration, development, and mining, including environmental hazards, industrial accidents, unusual or unexpected formations, pressures, cave-ins and flooding. Many of these uncertainties and contingencies can affect our actual results and could cause actual results to differ materially from those expressed or implied in any forward-looking statements

made by, or on behalf of, Barrick. Readers are cautioned that forward-looking statements are not guarantees of future performance.

All of the forward-looking statements made in this GISTM Disclosure are qualified by these cautionary statements. Specific reference is made to the most recent Form 40-F/Annual Information Form on file with the SEC and Canadian provincial securities regulatory authorities for a discussion of some of the factors underlying forward-looking statements and the risks that may affect Barrick's ability to achieve the expectations set forth in the forward-looking statements contained in this Response.

Barrick disclaims any intention or obligation to update or revise any forward-looking statements whether as a result of new information, future events or otherwise, except as required by applicable law.