



EAGLE GOLD MINE

HEAP LEACH FACILITY EMERGENCY RESPONSE PLAN

Version 2024-01

MARCH 2024

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DOCUMENT CONTROL

Submission History

| Version Number | Version Date | Document Description and Revisions Made |
|----------------|--------------|---|
| 2014-01 | June 2014 | Original submission drafted in June 2014 and submitted as an Appendix to the Heap Leach and Process Facilities Plan submitted August 2014 to the Department of Energy, Mines and Resources in support of an application for a Quartz Mining Licence and to the Yukon Water Board in support of an application for a Type A Water Use License for the full Construction, Operation and Closure of the Project. |
| 2017-01 | Nov 2017 | Revisions made to reflect the current site general arrangement and submitted to the Department of Energy, Mines and Resources and the Yukon Water Board in advance of Heap Leach Facility construction. |
| 2019-01 | May 2019 | Revisions made to reflect current personnel position titles, organizational chart and updated reference material and submitted to the Department of Energy, Mines and Resources 60 days prior to operations pursuant to QML-0011. |
| 2024-01 | March 2024 | Revisions made to reflect as-built Mine configuration and to address Yukon Government review comments dated January 30, 2023. |

Version 2024-01 of the Heap Leach Facility Emergency Response Plan (the Plan) for the Eagle Gold Mine has been revised in March 2024 to update Version 2019-01 submitted in May 2019. The table below is intended to identify modifications to the Plan and provide the rationale for such modifications.

Version 2024-01 Revisions

| Section | Revision/Rationale |
|--|---|
| General | <ul style="list-style-type: none"> ▪ Updated to Victoria Gold Corp. template |
| 2 Heap Leach Facility Emergency Response Plan Purpose | <ul style="list-style-type: none"> ▪ References to Mining Association of Canada guidance |
| 3 Heap Leach Facility Overview | <ul style="list-style-type: none"> ▪ Updated to reflect as-built configuration of the heap leach facility |
| Table 4.2-1 Emergency Response Designates | <ul style="list-style-type: none"> ▪ Deleted construction phase |
| 5.2 Emergency Classification | <ul style="list-style-type: none"> ▪ Update to Events Pond trigger to align with HLF OMS ▪ Included ADR Plant emergency classifications |
| 5.3 Communication with Stakeholders | <ul style="list-style-type: none"> ▪ Revised to include First Nation of Na-Cho Nyak Dun for Tier 2 and Tier 3 Communication Protocols |

Eagle Gold Mine

Heap Leach Facility Emergency Response Plan

Document Control

| Section | Revision/Rationale |
|--|---|
| 6 Emergency Scenario Causes, Preventative Measures and Response | <ul style="list-style-type: none">▪ Revised Section 6.0 to align preventative measures and detection methods with potential causes.▪ Deleted cyanide release during transport scenario as this is covered under Cyanide Management Plan. |
| 7 Hydrogen Cyanide Information | <ul style="list-style-type: none">▪ Deleted information that is duplicated from Cyanide Emergency Response Procedures (VGC-CMP-SOP-020) to avoid inconsistent information. |
| 8 Evacuation | <ul style="list-style-type: none">▪ Updated to clarify authority and trigger events to order evacuation.▪ Updated Figure 8-1 |

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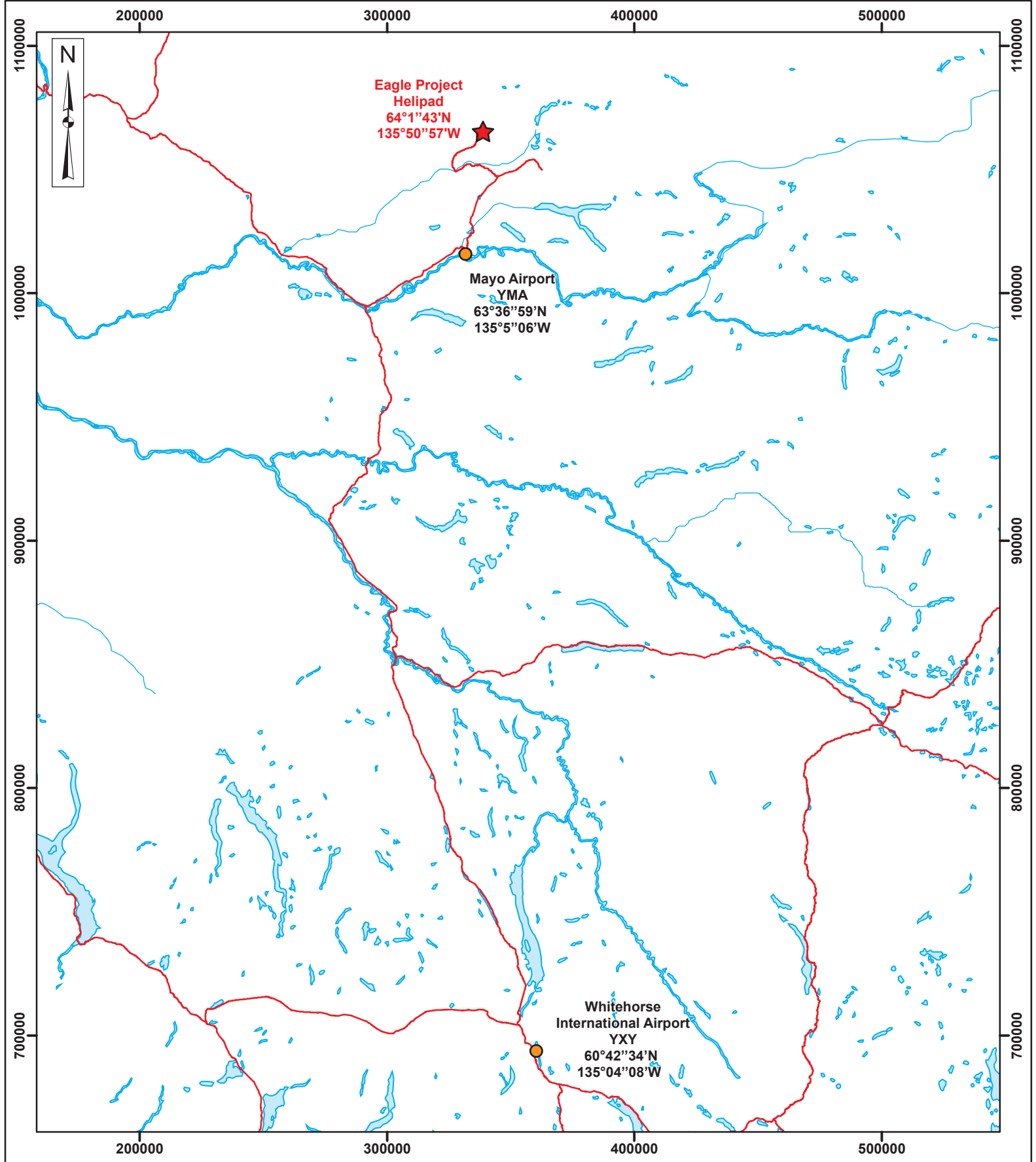
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1 INTRODUCTION

Victoria Gold Corp. (VGC) operates the Eagle Gold Mine in central Yukon. The Eagle Gold Mine ('the' Mine) is located 85 km from Mayo, Yukon and is accessed using highway and access roads as shown on Figure 1-1.

The Mine includes open pit mining and gold extraction using a three-stage crushing process, heap leaching, and a carbon adsorption, desorption, and recovery system over the mine life.



Legend:

| | |
|--|---|
|  Eagle Gold Project |  Watercourse |
|  Town / Village |  Waterbody |
|  Major Roadway | |

VICTORIA GOLD CORP

0 12.5 25 50
Kilometres
Scale = As Shown

| | |
|-----------------------------|-----------------|
| Projection: Yukon Albers | Drawn By: SS |
|-----------------------------|-----------------|

EAGLE GOLD PROJECT YUKON TERRITORY

Project Location

| | |
|---------------------|----------------|
| Date: 2014/05/23 | Figure: 1-1 |
|---------------------|----------------|

2 HEAP LEACH FACILITY EMERGENCY RESPONSE PLAN PURPOSE

The purpose of this Heap Leach Facility Emergency Response Plan (the Plan) is to ensure that an adequate level of emergency preparedness and response is available in the event of an emergency scenario involving the Heap Leach Facility (HLF) or associated structures. The Plan is supplemental to the Eagle Gold Mine Emergency Response Plan.

This plan was developed based on the following guidelines:

- Guidelines from the Canadian Dam Association (2013) including the Application of Dam Safety Guidelines to Mining Dams (CDA 2014);
- International Cyanide Management Code (2016);
- Developing an operation, maintenance and surveillance Manual for tailings and water management facilities (MAC 2021a);
- A Guide to the Management of Tailings Facilities (MAC 2021b)
- Type A and B Quartz Mining Undertakings - Information Package for Applicants (2012); and,
- Plan Requirement Guidance for Quartz Mining Projects (2013).

3 HEAP LEACH FACILITY OVERVIEW

The Heap Leach Facility (HLF) is a valley fill design which incorporates an earthfill/rockfill embankment that provides stability to the base of the heap and the stacked ore. The embankment also creates an In-Heap Pond leaching configuration that provides storage of pregnant solution within the pore spaces of the ore.

The major design components for the HLF include the following: the embankment and the In-Heap Pond; a composite liner system; solution recovery wells; associated piping network for solution collection and distribution; a leak detection and recovery system (LDRS); and a downstream Events Pond to contain excess solution that results from extreme precipitation or emergency events.

3.1 HEAP LEACH EMBANKMENT AND IN-HEAP SOLUTION POND

The embankment is an earthfill/rockfill structure with a geo-membrane lined upstream face to ensure containment integrity. The final embankment crest is at 939.5 masl and includes an 8 m crest width for road and pipeline access, and 2.5H:1V upstream and downstream slopes.

The In-Heap Pond stores process solution within the pore space of the ore, directly up gradient of the confining embankment. In the event the design capacity is exceeded, the spillway in the In-Heap Pond will enable a controlled discharge of water to the Events Pond.

3.2 EVENTS POND

The Events Pond is sized to provide storage for the Probable Maximum Flood (PMF) storm event from the ultimate HLF (all phases). The PMF event rainfall depth was estimated to be 256 mm which is assumed to contribute entirely over the ultimate HLF pad footprint.

3.3 LINER SYSTEM

The liner for the HLF in-heap pond and the Events Pond consists of a double composite geomembrane and underlying low-permeability bedding material (geosynthetic clay liner or GCL), with the rest of HLF liner consisting of single composite liner and a GCL. The primary purpose of the composite liner system is to prevent the loss of pregnant leach solution (PLS) for both environmental and economic reasons.

3.4 OVERLINER DRAIN FILL

The overliner drain fill (ODF) is a layer of crushed material placed over the entire In-Heap Pond and heap leach pad area including the upstream face of the confining embankment. The ODF minimizes the hydraulic head on the liner system to reduce the risk of PLS leakage and protects the liner system from damage during ore placement.

3.5 SOLUTION COLLECTION SYSTEM

Pregnant leach solution is collected in the high permeability ODF at the base of the heap leach pad, with perforated collection pipes placed within the ODF to increase solution removal rates. The collection pipe network directs the solution to the sump at the toe of the embankment for pumping through inclined riser pipes to the process plant.

The base of the sump is located below the elevation of the surrounding liner and the liner system and LDRS extends under the sump. Solution is pumped from the sump through inclined risers to the process plant. The inclined arrangement consists of thick-walled, steel pipes to allow for raising and lowering of a submersible pump. Pumps have the capacity to meet the solution application throughflow. A back-up riser pipe is installed to maintain access to the sump in the event that any of the riser pipes become blocked.

3.6 LEAK DETECTION AND RECOVERY SYSTEM

A LDRS within the In-Heap Pond and the Events Pond consists of a monitoring sump equipped with an automatic, fluid-level activated pump located between the top and bottom liners. The pump is sized to sufficiently remove fluids to minimize head on the bottom liner and also connected to a flow meter to provide the volumes recovered over specific time intervals.

3.7 UNDERDRAIN SYSTEM

The HLF underdrain system provides for the collection and drainage of subsurface water beneath the lined HLF to limit upward pressure on the facility liner. The underdrain consists of geofabric wrapped around granular drain rock backfill materials and 100 mm perforated pipes placed at regular intervals (approximately 75 m spacing). The drains convey unaffected subsurface water to collector pipes that discharge to an outlet monitoring vault. The vault is equipped with an outflow drain pipe that allows for the transfer of the captured water to the Events Pond.

3.8 SOLUTION CONVEYANCE AND PUMPING SYSTEMS

Barren solution containing cyanide is applied to the ore stacked on the HLF to extract the gold. After passing through the ore, this solution is collected by the solution collection system.

A series of barren solution pumps located at the Adsorption Desorption Recovery (ADR) Plant pump solution to the Heap Leach Pad. A series of pipe headers distribute the solution to secondary and tertiary headers, and ultimately drip emitters placed at the ore stack.

The process pumping system includes pumps, pipelines, valves, and associated controls to move solution between the ADR plant and the Heap Leach Pad.

3.9 ADSORPTION DESORPTION RECOVERY PLANT

Gold is recovered from the PLS by activated carbon adsorption and pressurized cyanide/caustic desorption, followed by electrowinning onto stainless steel cathodes, and then subsequent on-site smelting to gold doré. This process is referred to as the adsorption, desorption and recovery process. The gold-barren leach solution that remains after passing the PLS through the carbon columns is replenished with reagents for optimum cyanide concentration and pH control and re-circulated back to the Heap Leach Pad as barren solution.

Sodium cyanide briquettes are added to the system via 1 tonne super sacks. The sodium cyanide is mixed in the cyanide mix tank and then transferred to the cyanide storage tank. This concentrated cyanide solution is added into the barren solution tank or to the carbon columns, as required. Caustic solution is used in the system for acid neutralization and for preparing the fresh barren solution, as needed.

4 ORGANIZATION AND RESPONSIBILITY

4.1 EMERGENCY RESPONSE

Clearly defined roles and responsibilities are vital for effective and timely response to an emergency situation. The key roles for emergency response related to the Mine are described below and depicted in Figure 4-1.

Discoverer

The Discoverer is any individual witnessing an emergency on the Mine site and is responsible for initiating a Code 1 emergency response. The Discoverer will call out on radio channel 1 “Code 1, Code 1, Code 1” and clearly state their name, and the nature and location of the emergency. The Discoverer will then follow all instructions provided by the ERC.

Emergency Response Coordinator

The Emergency Responder Coordinator (ERC) will respond to the Discoverer on Channel 1 to request confirmation of the nature and location of the emergency. Once the emergency details have been confirmed, the Emergency Responder will provide instructions to the Discoverer on the appropriate immediate response the Discoverer should undertake.

The ERC will determine whether to investigate on scene prior to initiating the full “Code 1” protocol or having the Emergency Response Team (ERT) paged out. If investigating, the ERC will advise a delay in paging the ERT and advise medical staff to standby.

The ERC will initiate “Code 1” protocol as necessary.

If an investigation prior to initiating a full “Code 1” protocol has not occurred, the ERC will respond to the scene of the incident and conduct initial scene assessment. Based on initial scene assessment, the ERC will coordinate resources required with Mine Rescue Captain and advise the Incident Commander.

Emergency Response Team

The ERT will mobilize to the scene and the first, or most senior ERT member, will conduct an initial assessment and assume command of the scene. The ERT team member who assumes control of the scene will not relinquish control of the scene until the arrival of the Emergency Response Coordinator (ERC).

First Aid Attendants

Any First Aid Attendants on the Mine site that are not part of the ERT will immediately cease all activity upon hearing the Code 1 and ensure they are in a location where they can clearly hear any radio broadcasts for further assistance. If further assistance is required, they will mobilize to the scene or any other location as directed by the ERC.

If a First Aid Attendant is in the immediate area of the emergency, they are to report to the scene and assist with the efforts of the Discoverer or identify themselves to the ERT as a First Aid Attendant and await further instructions.

Incident Commander

The Incident Commander will immediately report to the ICC when a Code 1 response has been initiated. The IC will be responsible for communicating the nature and extent of any emergency to VGC senior management.

Prior to the arrival of related Governmental Agencies, only the IC has the authority to order the evacuation of personnel from the Mine site or the authority to give the “All Clear” order, indicating that it is safe to re-enter an area or building following an evacuation.

VGC Senior Management

VGC Senior Management will be responsible for communication with relevant Yukon Government agencies based on information provided by the IC.

All Other Site Personnel

All site personnel that are not directly involved in emergency response efforts will cease work upon hearing a “Code 1”, unless the cessation of their work could result in an emergency situation and will observe radio silence on Channel 1 until an “All Clear” has been given. Supervisors may use their working channel to muster personnel.

Workers that are outside and need to seek shelter due to weather conditions may do so carefully and their supervisor’s knowledge.

If an evacuation of an affected work area is necessary, the are Supervisor are responsible for accounting for personnel under their care at the muster station. Personnel are not to leave their muster station unless an “All Clear” order has been given or their location becomes unsafe.

Incident Command Center

Each incident in which a Code 1 response has been raised will require the activation of the Incident Command Center (ICC). The ICC will be able to receive and send critical communications (telephone, VHF radio and fax) and will be operated continuously throughout the incident. The ICC is located in the Administrative Office Boardroom on site and chaired by the Incident Commander. A secondary location will be established in the VGC Vancouver office as necessary.

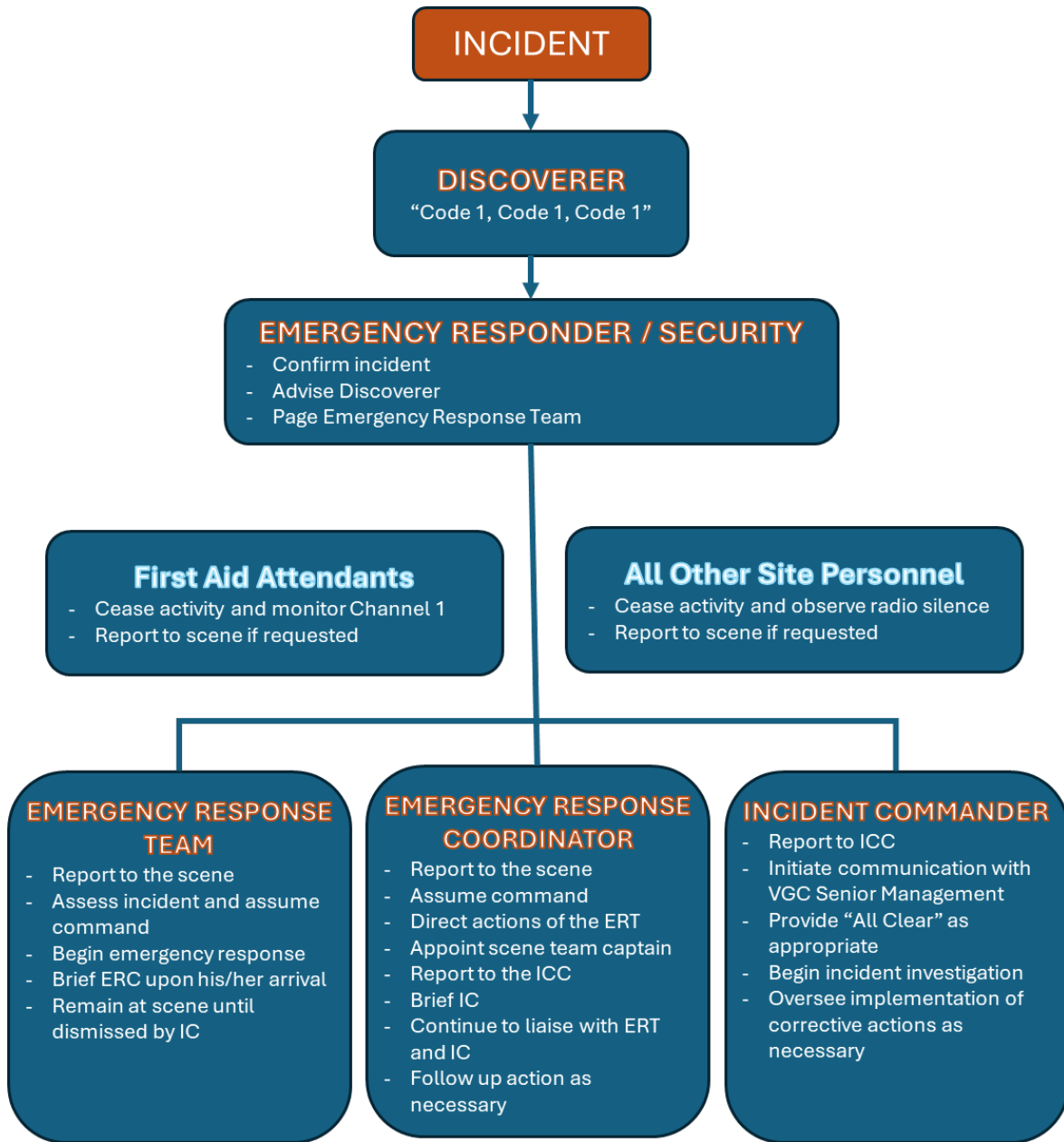


Figure 4-1: Emergency Response Organizational Chart

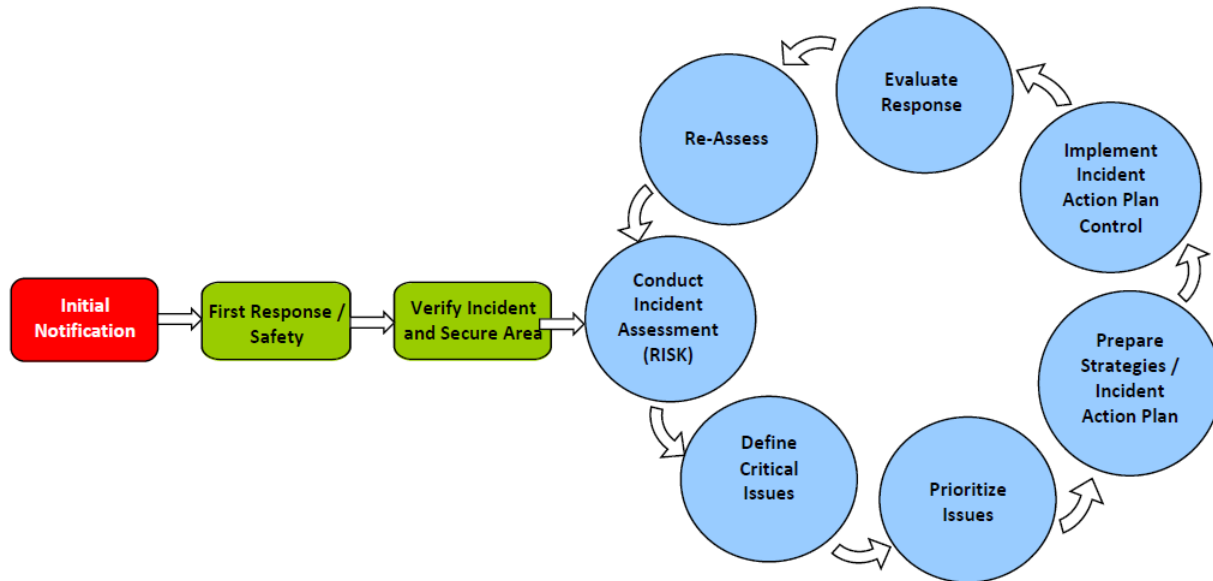


Figure 4-2: Emergency Response Process

4.2 DELEGATION OF RESPONSIBILITIES

The Mine is a continuous operation with work activities being undertaken 24 hours a day for 365 days a year. Continuous operations require a planned and documented delegation of responsibilities to ensure the integrity of emergency response. The Mine General Manager is ultimately responsible for ensuring that all key positions related to emergency response are staffed by competent personnel. The delegates for each of the emergency response positions will be posted in conspicuous locations around the Mine site including key planning and meeting areas.

The currently approved delegates for emergency response are provided in Table 4-1.

Table 4-1: Emergency Response Designates

| Emergency Response Position | Mine Phase | Primary Personnel | Designate | Minimum Skills/Qualifications |
|-----------------------------|-----------------------------|---|---|---|
| Emergency Responder | Construction and Operations | ICC & First Aid dedicated First Aid Attendant | ICC & First Aid dedicated First Aid Attendant cross shift | Occupational First Aid Level 3 WHMIS |
| | Closure | First Aid Attendant | First Aid Attendant | Occupational First Aid Level 3 WHMIS |
| Emergency Response Team | Construction and Operations | Various | Various | Occupational First Aid Level 1 Surface Mine Rescue WHMIS Industrial Fire Brigade Spill Response Hazardous Materials Handling |

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Section 4 Organization and Responsibility

| Emergency Response Position | Mine Phase | Primary Personnel | Designate | Minimum Skills/Qualifications |
|------------------------------------|-----------------------------|-------------------------------------|-------------------------------------|---|
| | Closure | Various | Various | Occupational First Aid Level 1 WHMIS Spill Response Hazardous Materials Handling |
| Emergency Response Coordinator | Construction and Operations | Health, Safety and Security Manager | Safety Coordinator | Occupational First Aid Level 3 Surface Mine Rescue WHMIS Industrial Fire Brigade Spill Response Hazardous Materials Handling |
| | Closure | Various | Various | Occupational First Aid Level 3 WHMIS Industrial Fire Brigade |
| Incident Commander | Construction and Operations | Mine General Manager | Health, Safety and Security Manager | Surface Mine Rescue WHMIS Industrial Fire Brigade Spill Response Hazardous Materials Handling |
| | Closure | Site Manager | Camp Coordinator | WHMIS Spill Response Hazardous Materials Handling |

5 EMERGENCY DETECTION AND CLASSIFICATION

5.1 EMERGENCY DETECTION

As described in operational and environmental management plans developed for the Mine, a range of monitoring and inspections are conducted to ensure that Mine features operate as intended. Unusual conditions or emergency events may be detected by the planned monitoring and inspection but may also be detected by:

- Observation by VGC personnel or contractors during the ordinary course of operations
- Observation by government personal (local, territorial, federal), visitors, or the public
- Evaluation of instrumentation data
- Earthquakes felt or reported in the vicinity of the Mine
- Advanced warning of conditions that may cause an unusual event or emergency (e.g. severe weather warnings, forest fires, etc.)

For the purposes of this plan, unusual conditions or emergency events are situations that are different from the normal or expected conditions of the heap leach facility. These unusual conditions may indicate problems needing further monitoring, inspection, or corrective measures or may indicate an emergency condition requiring emergency response. Table 5-1 provides a description of the emergency levels which may be detected on the Mine.

Table 5-1: Emergency Levels

| Emergency Level | Description |
|-----------------|------------------------------|
| 1 | Non-failure |
| 2 | Potential failure developing |
| 3 | Imminent or actual failure |

5.2 EMERGENCY CLASSIFICATION

The design, construction, and operation of the heap leach facility are all intended to mitigate the possibility of an emergency event developing; however, the potential for an emergency event does exist. Table 5-2 provides some of the unusual conditions and emergency events that have been planned for and also provides the anticipated emergency level. This information is provided as a general guide only and the professional opinion of qualified personnel should always be strongly considered.

Table 5-2: Emergency Level Determination

| Facility or Event | Unusual Condition | Emergency Level |
|-------------------|---|-----------------|
| HLF Spillway | Process solution is spilling to Events Pond | 1 |

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Heap Leach Facility Emergency Response Plan

Section 5 Emergency Detection and Classification

| Facility or Event | Unusual Condition | Emergency Level |
|-------------------|---|-----------------|
| | Process solution is spilling to Events Pond which is at red level condition (water level above 888 m asl) | 2 |
| | Process solution is spilling to Events Pond which is at full capacity | 3 |
| Embankment | New cracks in the embankment less than 0.5 cm wide without seepage | 1 |
| | New cracks in the embankment greater than 0.5 cm wide without seepage | 2 |
| | Cracks in the embankment with seepage | 3 |
| | Visual movement/slippage of the embankment slope | 2 |
| | Sudden or rapidly proceeding slides of the embankment slopes | 3 |
| | Process solution is overtopping embankment crest | 3 |
| Events Pond | Events Pond is at red level condition (water level above 888 m asl) | 2 |
| | Fluid level has encroached freeboard and rising flow over the Events Pond spillway is imminent or occurring | 3 |
| | New cracks in the pond slopes less than 0.5 cm wide without seepage | 1 |
| | New cracks in the pond slopes greater than 0.5 cm wide without seepage | 2 |
| | Cracks in the pond slopes with seepage | 3 |
| | Visual movement/slippage of the pond slopes | 2 |
| | Sudden or rapidly proceeding slides of the pond slopes | 3 |
| Ore heap | Visual movement/slippage of the ore heap (shallow slope failure) | 2 |
| | Sudden or rapidly proceeding slides of the ore heap (deep slope failure) | 3 |
| Liner and LDRS | In Heap Pond Alert Level 1 (refer to Table 6-1, below) | 1 |
| | In Heap Pond Alert Level 2 (refer to Table 6-1, below) | 2 |
| | Events Pond Alert Level 1 (refer to Table 6-2, below) | 1 |
| | Events Pond Alert Level 2 (refer to Table 6-2, below) | 2 |
| ADR Plant | HCN gas release in ADR above 10 ppm with no first aid required to any workers | 1 |
| | HCN gas release in ADR with first aid required on site | 2 |
| | HCN gas release in ADR with response requiring transport of affected individual(s) off site | 3 |
| | Sodium cyanide spill in unreactive location | 1 |
| | Spill containing WAD cyanide contained within ADR | 1 |
| | Spill containing WAD cyanide released outside of ADR presenting risk to watercourse or personnel | 3 |
| Earthquake | Measurable earthquake felt or reported on or within 100 km of the Mine | 1 |
| | Earthquake resulting in visible damage to the HLF or appurtenances | 2 |
| | Earthquake resulting in uncontrolled release of PLS from the HLF | 3 |
| Security Threat | Verified threat that, if carried out, could result in damage to the HLF or appurtenances | 2 |

| Facility or Event | Unusual Condition | Emergency Level |
|-------------------|---|-----------------|
| | Detonated bomb or act of sabotage/vandalism that has resulted in damage to the HLF or appurtenances | 3 |

5.3 COMMUNICATION WITH STAKEHOLDERS

VGC's response and communication procedures for heap leach facility scenarios are based on a three-tiered system linked to the emergency levels. Broadly, the three tiers for response and communication are shown in Table 5-1.

The tiered communication and emergency level system has been developed so that VGC Senior Management and site personnel are able to notify appropriate communities, government agencies, and other stakeholders of an emergency. Proper communication of an event involving heap leach facility is intended to reduce the likelihood of a panicked response which may exacerbate the emergency.

5.3.1 Tier 1 Communication Protocol

If a scenario is deemed to be a "Non-Failure" situation then the primary communication responsibility is to report the situation to an immediate supervisor and/or the Manager of Health, Safety and Security. The goal of the communication is to ensure that all relevant personnel are aware of the situation so corrective measures can be taken as necessary. Any site personnel made aware of a Tier 1 emergency level event are to limit communication to internal VGC personnel and any decision to communicate the situation to government agencies, the media, or local communities is at the discretion of VGC Senior Management.

5.3.2 Tier 2 Communication Protocol

If a scenario is deemed a "Potential failure developing" situation, the communication level is expanded outside of VGC. The responsibility for this communication is the Mine Manager and/or the Manager of Health, Safety and Security once they have been made aware of the situation. The goal of the communication is to ensure that the relevant government agencies are aware of the situation and are advised that VGC is taking appropriate action to correct the situation and assistance is likely not immediately required.

The organizations to be contacted will vary based on the type of emergency developing, however the Yukon Workers' Compensation Health and Safety Board should be notified (867-667-5450) and at the discretion of the Mine Manager and/or the Manager of Health, Safety and Security the following agencies may also be notified:

- Yukon Emergency Medical Service (EMS) 867-667-3333
- Mayo RCMP 867-996-5555
- Mayo Fire and Ambulance 867-996-2222
- Yukon Spill Report Centre 867-667-7244
- Yukon Water Board 867-456-3980
- Transport Canada CANUTEC 24-hour service 613-996-6666

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Section 5 Emergency Detection and Classification

- Yukon Government - Energy, Mines and Resources CS&I Mayo 867-996-2568
- Yukon Government - Energy, Mines and Resources CS&I Whitehorse 867-456-3882
- First Nation of Na-Cho Nyak Dun, Lands Manager, 867 996-2265 ext. 143
- Cyanco incident management and emergency response support, 1-800-424-9300

5.3.3 Tier 3 Communication Protocol

If an “Imminent or actual failure” situation is developing at the Mine site, the communication is expanded outside of VGC and includes local stakeholders. This situation may require assistance and has the potential to affect communities.

VGC Senior Management will have responsibility for communicating a Tier 3 emergency; however, if the Mine General Manager cannot immediately contact them, the Mine General Manager is to assume communication responsibility until VGC Senior Management can assume control.

The organizations to be contacted will vary based on the type of emergency developing, however the Yukon Workers’ Compensation Health and Safety Board must be notified (867-667-5450) and following agencies may also be notified so that they can provide assistance with the response or with the notification of affected communities:

- Yukon Emergency Medical Service (EMS) 867-667-3333
- Mayo RCMP 867-996-5555
- Mayo Fire and Ambulance 867-996-2222
- 24 HOURS Yukon Spill Report Centre 867-667-7244
- Yukon Water Board 867-456-3980
- Transport Canada CANUTEC 24-hour service 613-996-6666
- Yukon Government - Energy, Mines and Resources CS&I Mayo 867-996-2568
- Yukon Government - Energy, Mines and Resources CS&I Whitehorse 867-456-3882
- First Nation of Na-Cho Nyak Dun, Lands Manager, 867 996-2265 ext. 143
- Cyanco incident management and emergency response support, 1-800-424-9300

6 EMERGENCY SCENARIO CAUSES, PREVENTATIVE MEASURES AND RESPONSE

To effectively and proactively manage the HLF, there is a need to have a broad understanding of all of the associated uncertainties, risks and consequences. It is important that focusing on one risk component, such as a slope failure, doesn't lead to other components being overlooked. The Failure Modes and Effects Analysis (FMEA) methodology allows a balanced evaluation of the risks associated with various components of a system. A FMEA for the HLF was undertaken to support detailed design and to inform development and operational planning for the Mine.

The HLF FMEA identified a range of failure modes over the major HLF components which, during construction and operations, are mitigated by standard engineering and design practices. However, planning for emergency response in the unlikely event that these failure modes are experienced is a key proactive management tool.

In addition to the failure modes identified by the FMEA, consideration is also given to activities associated with the operation of the HLF which would not have implications for the structural and functional integrity of the HLF but could result in an emergency. Specifically, additional considerations to ensure the safe operation of the HLF primarily involve the safe handling and use of cyanide as described in the Cyanide Management Plan and Cyanide Emergency Response Procedures (VGC-CMP-SOP-020).

The following emergency scenarios have been considered for the heap leach facility:

1. HLF embankment failure (hydraulic, structural or seepage)
2. In-Heap Pond solution escape
3. Events Pond failure
4. Liner system failure
5. Solution collection system failure
6. Ore heap slope failure
7. Closure Drain System failure
8. Hydrogen cyanide gas release or liquid cyanide solution spill in the ADR plant
9. Hydrogen cyanide release during transportation (See Cyanide Management Plan)

6.1 HEAP LEACH FACILITY EMBANKMENT FAILURE

| Incident | HLF Embankment Failure | | |
|------------------------------|--|---|---|
| Potential Causes | Hydraulic (overtopping of dam crest or erosion of embankment toe): <ul style="list-style-type: none"> Overtopping of dam crest during runoff event due to spillway plugging Embankment toe erosion due to misdirected spillway outlet discharge | Structural (foundation or slope failure): <ul style="list-style-type: none"> Poor quality control during foundation preparation and embankment fill placement Extraordinary seismic event exceeding projected maximum event | Seepage <ul style="list-style-type: none"> Internal erosion / progressive piping of fines through embankment |
| Preventative Measures | <ul style="list-style-type: none"> Follow procedures identified in OMS Manual including regular site inspections by mine personnel and dam safety inspections and reviews by engineer Implement high level of construction quality control and assurance with regular inspections by the engineer Push snowpack into large piles to decrease rate of snowmelt Preventative maintenance Event driven maintenance | <ul style="list-style-type: none"> Follow procedures identified in OMS Manual including regular site inspections by mine personnel and dam safety inspections and reviews by engineer Implement high level of construction quality control and assurance with regular inspections by the engineer Preventative maintenance | <ul style="list-style-type: none"> Maintain heap water balance operational criteria and follow procedures identified in the HLF Contingency Water Management Plan for solution management Follow procedures identified in OMS Manual including regular site inspections by mine personnel and dam safety inspections and reviews by engineer Implement high level of construction quality control and assurance with regular inspections by the engineer Preventative maintenance |
| Detection Method | <ul style="list-style-type: none"> Regular inspection of spillway and outfall by site personnel and engineer Regular inspection of dam face and toe area by site personnel and engineer | <ul style="list-style-type: none"> Construction QA/QC program Regular inspection by engineer during construction Compliance with Canadian Dam Association Technical Bulletin for Seismic Hazard Considerations for Dam Safety Dam instrumentation | <ul style="list-style-type: none"> Seepage monitoring |
| Site Response | <ul style="list-style-type: none"> Initiate "Code 1" as per "Initial Response - Code 1 Procedure" Administer first aid as required Evacuate down gradient work areas | | |

Section 6 Emergency Scenario Causes, Preventative Measures and Response

| Incident | HLF Embankment Failure |
|-------------------|---|
| | <ul style="list-style-type: none"> • Immediate notification of VGC Senior Management so communication protocol can be enacted • Immediate lowering of PLS volumes to safe levels by any or all of the following methods: <ul style="list-style-type: none"> ○ Pumping to Events Pond ○ Increasing area under leach (i.e. returning PLS into circulation) ○ Excavation of additional down gradient emergency management pond ○ Pumping to MWTP for treatment and release ○ Pumping to water management ponds (e.g. Lower Dublin South Pond) if appropriate ○ Activating spare vertical turbine pump • Buttress embankment with structural fill such as waste rock • Inspect and clear the HLF spillway as necessary • Restore freeboard by placing sandbags if necessary • Contain any spill of PLS to the greatest extent possible |
| Emergency Level | Tier 3 |
| Potential Effects | <ul style="list-style-type: none"> • Major damage to multiple pad components • Damage to liner system and loss of product - solution leakage • Damage to collection piping system • Uncontrolled release of ore and solution |
| Follow Up | <ul style="list-style-type: none"> • Incident/accident investigation • Inspection by geotechnical engineer • Cease pad loading and new solution application until repair and geotechnical inspection complete • Environmental remediation if PLS is released |

6.2 IN HEAP POND SOLUTION ESCAPE

| Incident | In Heap Pond Solution Escape | | | |
|------------------------------|--|--|--|--|
| Potential Causes | Poor quality control during foundation preparation and embankment fill placement | Damage to liner system after construction during ore placement | Failure of electrical or pump system leading to solution buildup in excess of storage capacity | Extraordinary combination of upset events occurring simultaneously resulting in loss of storage in In-Heap Pond |
| Preventative Measures | <ul style="list-style-type: none"> • Implement high level of construction quality control and assurance with regular inspections by the engineer | <ul style="list-style-type: none"> • Follow procedures identified in OMS Manual including: <ul style="list-style-type: none"> ○ stacking plan and ore placement procedures ○ dam safety inspections and reviews by engineer ○ monitoring of solution levels | <ul style="list-style-type: none"> • Maintain heap water balance operational criteria and follow procedures identified in the HLF Contingency Water Management Plan for solution management • Site electrical system includes switch gear to allow power to be sourced from YEC grid or on site back up diesel generation • Regular inspection of back up electrical and pumping equipment to ensure operability in case of emergency • Ensure availability of backup PLS pump | <ul style="list-style-type: none"> • Implement high level of construction quality control and assurance with regular inspections by the engineer • Follow procedures identified in OMS Manual including: <ul style="list-style-type: none"> ○ stacking plan and ore placement procedures ○ dam safety inspections and reviews by engineer ○ monitoring of solution levels • Regular inspections |
| Detection Method | <ul style="list-style-type: none"> • Construction quality control and assurance program • Regular inspection by engineer during construction and operation | <ul style="list-style-type: none"> • Regular inspection by engineer during construction and operation • In-Heap Pond Leak Detection and Recovery System (LDRS) | <ul style="list-style-type: none"> • In-Heap Pond and flow instrumentation: <ul style="list-style-type: none"> ○ Level meter in pond ○ Flow meters within solution recovery system ○ Remote system performance monitoring software | <ul style="list-style-type: none"> • Construction QA/QC program • Regular inspection by engineer during construction and operation |
| Site Response | <ul style="list-style-type: none"> • Initiate “Code 1” as per “Initial Response - Code 1 Procedure” | | | |

Section 6 Emergency Scenario Causes, Preventative Measures and Response

| Incident | In Heap Pond Solution Escape |
|--------------------------|---|
| | <ul style="list-style-type: none"> • Administer first aid as required • Immediate notification of VGC Senior Management so communication protocol can be enacted • Immediate lowering of PLS volumes in Events Pond by pumping of PLS to MWTP for treatment and release • Excavation of additional down gradient emergency management pond • Restore freeboard by placing sandbags if necessary • Inspect and repair any damaged liner and solution collection components • Contain any spill of PLS to the greatest extent possible |
| Emergency Level | Tier 3 |
| Potential Effects | <ul style="list-style-type: none"> • Uncontrolled release of solution to environment |
| Follow Up | <ul style="list-style-type: none"> • Incident/accident investigation • Inspection by engineer of impacted components • Cease pad loading and new solution application until repair and inspection complete • Increased monitoring frequency until effectiveness of response assured • Environmental remediation if PLS is released |

6.3 EVENTS POND FAILURE

| Incident | Events Pond Failure | | | |
|------------------------------|---|---|--|--|
| Potential Causes | Poor quality control during foundation preparation and embankment fill placement | Damage to liner system after construction during operations (ice damage, wildlife damage, equipment damage, etc.) | Failure of electrical or pump system leading to solution buildup in excess of storage capacity | Extraordinary combination of upset events occurring simultaneously resulting in loss of storage capacity in Events Pond |
| Preventative Measures | <ul style="list-style-type: none"> • Implement high level of construction quality control and assurance with regular inspections by the engineer | <ul style="list-style-type: none"> • Follow procedures identified in OMS Manual including: <ul style="list-style-type: none"> ○ dam safety inspections and reviews by engineer ○ monitoring of water levels • Regular inspections • Wildlife deterrents | <ul style="list-style-type: none"> • Maintain heap water balance operational criteria and follow procedures identified in the HLF Contingency Water Management Plan for solution management • Regular inspection of back up electrical and pumping equipment to ensure operability in case of emergency • Site electrical system includes switch gear to allow power to be sourced from YEC grid or on site back up diesel generation • Ensure availability of other pumps that can be deployed to the Events Pond as necessary. | <ul style="list-style-type: none"> • Implement high level of QA/QC with regular inspections by the engineer • Follow procedures identified in OMS Manual including: <ul style="list-style-type: none"> ○ dam safety inspections and reviews by engineer ○ monitoring of water levels • Maintain heap water balance operational criteria and follow procedures identified in the HLF Contingency Water Management Plan for solution management • Regular inspections |
| Detection Method | <ul style="list-style-type: none"> • Construction QA/Qc program | <ul style="list-style-type: none"> • Regular inspection by engineer during construction and operation • Events Pond Leak Detection and Recovery System (LDRS) • Visual inspections | <ul style="list-style-type: none"> • Water levels in In-Heap Pond and Events Pond • Operational status of major pump systems • Remote system performance monitoring software | <ul style="list-style-type: none"> • Construction QA/QC program • Regular inspection by engineer during construction and operation • Events Pond Leak Detection and Recovery System (LDRS) |

Section 6 Emergency Scenario Causes, Preventative Measures and Response

| Incident | Events Pond Failure | | |
|-------------------|---|--|---|
| | | | <ul style="list-style-type: none"> • Visual inspections • Water levels in In-Heap Pond and Events Pond • Snowpack levels on heap |
| Site Response | <ul style="list-style-type: none"> • Initiate “Code 1” as per “Initial Response - Code 1 Procedure” • Administer first aid as required • Immediate notification of VGC Senior Management so communication protocol can be enacted • Immediate lowering of solution volumes in Events Pond by any or all of the following methods: <ul style="list-style-type: none"> • Increasing area under leach (i.e., returning PLS into circulation) • Pump fluid to MWTP for treatment and release • Excavation of additional down gradient emergency management pond • Restore freeboard by placing sandbags if necessary • Buttress embankment with structural fill such as waste rock • Inspect and repair any damaged liner and solution collection components • Remove or repair liner system in Events Pond • Contain any spill of PLS to the greatest extent possible | | |
| Emergency Level | Tier 3 | | |
| Potential Effects | <ul style="list-style-type: none"> • Damage to liner system and loss of product - solution leakage • Uncontrolled release of solution to environment | | |
| Follow Up | <ul style="list-style-type: none"> • Incident/accident investigation • Inspection by geotechnical engineer • Environmental remediation if PLS is released | | |

6.4 LINER SYSTEM FAILURE

| Incident | Liner System Failure | | | |
|------------------------------|---|---|--|--|
| Potential Causes | Poor fabrication quality | Damage to system components during construction | Damage to system components after construction during ore placement | Differential settlement caused by improper foundation preparation |
| Preventative Measures | <ul style="list-style-type: none"> Follow technical specifications including compliance testing of geosynthetics during procurement | <ul style="list-style-type: none"> Follow technical specifications including construction of a test fill program to establish proper construction procedures to limit damage Implement high level of QA/QC with regular inspections by the engineer | <ul style="list-style-type: none"> Follow procedures identified in OMS Manual including stacking plan and ore placement procedures | <ul style="list-style-type: none"> Implement high level of construction QA/QC with regular inspections by the engineer |
| Detection Method | <ul style="list-style-type: none"> Quality control during manufacturing Compliance testing during procurement | <ul style="list-style-type: none"> Construction QA/QC program Visual inspection In-Heap Pond LDRS system Monitoring vault flows (quantity and quality) Regular inspection by engineer during construction | <ul style="list-style-type: none"> In-Heap Pond LDRS system Monitoring vault flows (quantity and quality) Visual inspections of ore stack | <ul style="list-style-type: none"> Construction QA/QC program Visual inspection In-Heap Pond LDRS system Monitoring vault flows (quantity and quality) |
| Site Response | <p>Leakage rate at alert level 1 based on In-Heap Pond elevation</p> <ul style="list-style-type: none"> Isolate leak if possible Restrict leaching operations in affected area of liner failure in HLF Contain any spill of PLS to the greatest extent possible Increase monitoring frequency of underdrain vault for possible PLS solution leakage through secondary liner and GCL. If PLS solution identified, temporarily cease solution application in affected area, drill and case borehole and pump bentonite or similar material to affected area for failure in HLF <p>Leakage rate between alert level 1 and alert level 2 based on In-Heap Pond elevation</p> <ul style="list-style-type: none"> Isolate leak if possible | | | |

Section 6 Emergency Scenario Causes, Preventative Measures and Response

| Incident | Liner System Failure | | | |
|----------|--|--|--|--|
| | <ul style="list-style-type: none"> • Restrict leaching operations in affected area of liner failure in HLF • Increase monitoring frequency of underdrain vault for possible PLS solution leakage through secondary liner and GCL. If PLS solution identified, temporarily cease solution application in affected area, drill and case borehole and pump bentonite or similar material to affected area for failure in HLF • Install interlift liner where practical • Contain any spill of PLS to the greatest extent possible | | | |
| | <p>Leakage rate above alert level 2 based on In-Heap Pond elevation</p> <ul style="list-style-type: none"> • Isolate leak if possible • Restrict leaching operations in affected area of liner failure in HLF • Increase monitoring frequency of underdrain vault for possible PLS solution leakage through secondary liner and GCL. If PLS solution identified, temporarily cease solution application in affected area, drill and case borehole and pump bentonite or similar material to affected area for failure in HLF • Install interlift liner where practical • Unload ore and repair any damaged liner for failure in HLF • Contain any spill of PLS to the greatest extent possible | | | |
| | <p>Event Pond liner leakage <60,000L</p> <ul style="list-style-type: none"> • Isolate leak if possible • Electrical leak detection and repair of damaged location | | | |
| | <p>Event Pond liner leakage >60,000L</p> <ul style="list-style-type: none"> • Isolate leak if possible • Electrical leak detection and repair of damaged location • Remove and replace liner system in Events Pond | | | |
| | <p>Damage above IHP area</p> <ul style="list-style-type: none"> • Restrict leaching operations in affected area of liner failure in HLF • Increase monitoring frequency of underdrain vault for possible PLS solution leakage through primary liner and GCL. If PLS solution identified, temporarily cease solution application in affected area, drill and case borehole and pump bentonite or similar material to affected area. • Unload ore and repair any damaged liner for failure in HLF • Install interlift liner where practical • Contain any spill of PLS to the greatest extent possible | | | |

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Section 6 Emergency Scenario Causes, Preventative Measures and Response

| Incident | Liner System Failure | | | |
|--------------------------|--|--|--|--|
| Emergency Level | Pond alert levels are specific to the pond water elevation (see Tables 6-1 and 6-2): <ul style="list-style-type: none"> • In-Heap Pond alert level 1 - Tier 1 • In-Heap Pond alert level 2 - Tier 2 • Events Pond alert level 1 - Tier 1 Events Pond alert level 2 - Tier 2 Liner damage above IHP area <ul style="list-style-type: none"> • No detection of CN in underdrain system and area not leached - Tier 1 • Detection of CN in underdrain system - Tier 2 | | | |
| Potential Effects | <ul style="list-style-type: none"> • Loss of product - solution leakage • Uncontrolled release of solution to environment | | | |
| Follow Up | <ul style="list-style-type: none"> • Incident/accident investigation • Increased monitoring frequency until effectiveness of response assured • Environmental remediation if PLS is released | | | |

Table 6-1: In-Heap Pond Alert Levels

| In-Heap Pond Elevation (masl) | Alert Level 1 (L/day) | Alert Level 2 (L/day) |
|-------------------------------|-----------------------|-----------------------|
| 913 | 160 | 3,300 |
| 914 | 810 | 16,000 |
| 915 | 1,300 | 26,000 |
| 916 | 1,900 | 39,000 |
| 917 | 2,600 | 53,000 |
| 918 | 3,500 | 69,000 |
| 919 | 4,400 | 89,000 |
| 920 | 5,600 | 110,000 |
| 921 | 6,800 | 140,000 |
| 922 | 8,200 | 160,000 |

Section 6 Emergency Scenario Causes, Preventative Measures and Response

| In-Heap Pond Elevation (masl) | Alert Level 1 (L/day) | Alert Level 2 (L/day) |
|----------------------------------|--------------------------|--------------------------|
| 923 | 9,700 | 190,000 |
| 924 | 11,000 | 230,000 |
| 925 | 13,000 | 270,000 |
| 926 | 16,000 | 310,000 |
| 927 | 18,000 | 370,000 |
| 928 | 21,000 | 420,000 |
| 929 | 24,000 | 490,000 |
| 930 | 28,000 | 550,000 |
| 931 | 32,000 | 640,000 |
| 932 | 36,000 | 720,000 |
| 933 | 41,000 | 820,000 |
| 934 | 47,000 | 940,000 |
| 935 | 53,000 | 1,100,000 |
| 936 | 61,000 | 1,200,000 |
| 937 | 69,000 | 1,400,000 |
| 938 | 77,000 | 1,500,000 |
| 939 (embankment crest) | 83,000 | 1,700,000 |

Table 6-2: Events Pond Primary Liner Leakage Results and Alert Levels

| Event Elevation (masl) | Alert Level 1 (L/day) | Alert Level 2 (L/day) |
|---------------------------|--------------------------|--------------------------|
| 883 | 4,700 | 150,000 |
| 884 | 7,800 | 250,000 |
| 885 | 11,000 | 350,000 |

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| Event Elevation (masl) | Alert Level 1 (L/day) | Alert Level 2 (L/day) |
|-----------------------------------|----------------------------------|----------------------------------|
| 886 | 14,000 | 460,000 |
| 887 | 18,000 | 580,000 |
| 888 | 22,000 | 700,000 |
| 889 | 26,000 | 830,000 |
| 890 | 31,000 | 970,000 |
| 891 | 35,000 | 1,100,000 |
| 892 | 40,000 | 1,300,000 |
| 893 | 45,000 | 1,400,000 |
| 894 | 51,000 | 1,600,000 |
| 895 (spillway invert 894.5) | 57,000 | 1,800,000 |
| 895.5 (crest) | 60,000 | 1,900,000 |

6.5 SOLUTION COLLECTION SYSTEM FAILURE

| Incident | Solution Collection System Failure | | |
|------------------------------|---|--|---|
| Potential Causes | Poor quality control during installation | Damage to system during ODF placement | Damage to system during ore placement |
| Preventative Measures | <ul style="list-style-type: none"> Follow technical specifications including compliance testing of geosynthetics during procurement Follow technical specifications including construction of a test fill program to establish proper construction procedures to limit damage | <ul style="list-style-type: none"> Follow technical specifications including construction of a test fill program to establish proper construction procedures to limit damage Follow procedures identified in OMS Manual including stacking plan and ore placement procedures | <ul style="list-style-type: none"> Follow procedures identified in OMS Manual including stacking plan and ore placement procedures |
| Detection Methods | <ul style="list-style-type: none"> Construction QA/QC program | <ul style="list-style-type: none"> In-Heap Pond LDRS system Monitoring vault flows (quantity and quality) Visual inspection HLF pad piezometer installed in overliner | <ul style="list-style-type: none"> In-Heap Pond LDRS system Monitoring vault flows (quantity and quality) Visual inspection HLF pad piezometer installed in overliner |
| Site Response | <ul style="list-style-type: none"> Unload ore and repair or replace where practical Install interlift liner and collection piping system where practical | | |
| Emergency Level | Tier 2 | | |
| Potential Effects | <ul style="list-style-type: none"> Elevated hydraulic head in ore pile Loss of ability to control water balance | | |
| Follow Up | <ul style="list-style-type: none"> Incident/accident investigation Increased monitoring frequency until effectiveness of response assured | | |

6.6 ORE HEAP SLOPE FAILURE

| Incident | Ore Heap Slope Failure | |
|------------------------------|--|--|
| Potential Causes | Improper ore placement methods causing ore pile slope failure | Elevated phreatic level or erosion causing ore pile slope failure |
| Preventative Measures | <ul style="list-style-type: none"> Follow procedures identified in OMS Manual including stacking plan and ore placement procedures | <ul style="list-style-type: none"> Maintain operational controls for solution management Follow procedures identified in OMS Manual including: <ul style="list-style-type: none"> Visual inspections of ore pile for erosion Stacking plan and ore placement procedures Monitoring of ore pile phreatic levels |
| Detection Method | <ul style="list-style-type: none"> Visual inspection | <ul style="list-style-type: none"> In-Heap Pond LDRS Monitoring vault flows (quantity and quality) Visual inspection HLF pad piezometer installed in overliner |
| Site Response | <ul style="list-style-type: none"> Initiate “Code 1” as per “Initial Response - Code 1 Procedure” Administer first aid as required Immediate notification of VGC Senior Management so communication protocol can be enacted Immediate lowering of PLS volumes to HLF Operating Volume by any or all of the following methods: <ul style="list-style-type: none"> Pumping to Events Pond Increasing area under leach (i.e. returning PLS into circulation) Pumping to water management ponds (e.g. Lower Dublin South Pond) if appropriate Restrict PLS application in affected area Unload affected ore pile area and inspect and repair any damaged HLF liner and solution collection components Install interlift liner if unloading of ore pile impractical Buttress ore pile Contain any spill of PLS to the greatest extent possible | |
| Emergency Level | Deep Slope Failure - Tier 3 Shallow Slope Failure - Tier 2 | |
| Potential Effects | <ul style="list-style-type: none"> Major damage to multiple pad components Damage to liner system and loss of product - solution leakage | |

Section 6 Emergency Scenario Causes, Preventative Measures and Response

| Incident | Ore Heap Slope Failure | |
|-----------|--|--|
| | <ul style="list-style-type: none"> • Damage to collection piping system • Uncontrolled release of ore and solution | |
| Follow Up | <ul style="list-style-type: none"> • Incident/accident investigation • Inspection by geotechnical engineer • Environmental remediation if PLS is released • Cease pad loading in affected area until repair complete | |

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6.7 CLOSURE DRAIN SYSTEM FAILURE

| Incident | Closure Drain System Failure | |
|------------------------------|--|--|
| Potential Causes | Clogging of sump materials | Damage during or after construction |
| Preventative Measures | <ul style="list-style-type: none">Develop contingency plan for alternative method of draining heap, such as drilling through ore pile into underdrains | <ul style="list-style-type: none">Develop contingency plan for alternative method of draining heap, such as drilling through ore pile into underdrainsImplement high level of construction quality control and assurance with regular inspections by the engineer |
| Detection Method | <ul style="list-style-type: none">Flows at monitoring vaultVisual inspection | <ul style="list-style-type: none">Flows at monitoring vaultVisual inspection |
| Site Response | <ul style="list-style-type: none">Drill through ore pile into underdrainsPump PLS to MWTP for treatmentDrill and case horizontal wells at base of embankment for passive drainage at closure | |
| Emergency Level | Tier 2 | |
| Potential Effects | <ul style="list-style-type: none">Failure to drain heap | |
| Follow Up | <ul style="list-style-type: none">Incident/accident investigationIncreased monitoring frequency until effectiveness of response assured | |

6.8 RELEASE OF HCN GAS OR SOLUTION SPILL WITHIN THE ADR PLANT

| Incident | Release of HCN Gas or Solution Spill within the ADR Plant | | | |
|------------------------------|--|--|--|--|
| Potential Causes | Accidental release of dry sodium cyanide which is then exposed to acids, acid salts, water, moisture or carbon dioxide | Rupture or failure of tanks, pipelines, fittings or valves containing cyanide solution | Temporary loss of process pH control systems | Power outage or pump failure |
| Preventative Measures | <ul style="list-style-type: none"> Hazard identification and response training for relevant ADR Plant Personnel Installation and regular testing of fixed HCN detectors and portable HCN monitors | <ul style="list-style-type: none"> Preventative maintenance Event driven maintenance Hazard identification and response training for relevant ADR Plant Personnel High level of QA/QC Installation and regular testing of fixed HCN detectors and portable HCN monitors | <ul style="list-style-type: none"> Preventative maintenance Event driven maintenance Hazard identification and response training for relevant ADR Plant Personnel | <ul style="list-style-type: none"> Preventative maintenance Event driven maintenance Hazard identification and response training for relevant ADR Plant Personnel High level of QA/QC |
| Detection Method | <ul style="list-style-type: none"> Event driven inspection Activation of fixed HCN detectors or portable HCN monitors Notification of elevated HCN levels in remote system performance monitoring software | <ul style="list-style-type: none"> Routine facility inspection Event driven inspection Activation of fixed HCN detectors or portable HCN monitors Notification of elevated HCN levels in remote system performance monitoring software | <ul style="list-style-type: none"> Routine facility inspection Event driven inspection Activation of fixed HCN detectors or portable HCN monitors Notification of elevated HCN levels in remote system performance monitoring software | <ul style="list-style-type: none"> Routine facility inspection Event driven inspection Activation of fixed HCN detectors or portable HCN monitors Notification of elevated HCN levels in remote system performance monitoring software |
| Site Response | <ul style="list-style-type: none"> Initiate "Code 1" as per "Initial Response - Code 1 Procedure" Evacuate area <ul style="list-style-type: none"> Small spills in reactive conditions - 60 m in all directions, 200 m downwind Large spills in reactive conditions - 390 m in all directions, 1.3 km downwind Administer first aid as required ERT or other trained and equipped personnel stop release, contain spill, and neutralize if possible Immediate notification of VGC Senior Management so communication protocol can be enacted | | | |

Eagle Gold Mine

Heap Leach Facility Emergency Response Plan

Section 6 Emergency Scenario Causes, Preventative Measures and Response

| | |
|--------------------------|---|
| Incident | Release of HCN Gas or Solution Spill within the ADR Plant |
| | <ul style="list-style-type: none">• Construct emergency catchment areas if secondary containment breached |
| Emergency Level | Tier 1 - 3 |
| Potential Effects | <ul style="list-style-type: none">• Fatality |
| Follow Up | <ul style="list-style-type: none">• Incident/accident investigation• Pump spilled solutions back in the cyanidation process• Environmental remediation if PLS is released |

7 HYDROGEN CYANIDE INFORMATION

Hydrogen cyanide gas is an extremely toxic, flammable compound which can be produced by the decomposition of sodium cyanide when exposed to acids, acid salts, water, moisture and carbon dioxide. HCN gas is colorless with a faint odor of bitter almonds and can be smelled in the concentration range of 1 - 5 parts per million (ppm). Exposure to HCN gas concentrations greater than 50 ppm for 30 minutes can result in cyanide poisoning and any exposed individual must obtain immediate medical treatment.

In a release situation, the immediate release area and a downwind isolation zone must be established. Vapor generation will be very rapid and vapors can travel a considerable distance. All ignition sources must be removed as vapors are easily ignitable at ambient temperature conditions. For information on responding to an emergency involving hydrogen cyanide refer to the Cyanide Emergency Response Procedures (VGC-CMP-SOP-020).

8 EVACUATION

The emergency scenarios considered for the heap leach facility will under most circumstances require only temporary evacuation from an affected work area. Only in an extreme circumstance should a full site evacuation be undertaken. A full evacuation can only be authorized by the Mine General Manager or designated Incident Commander.

Based on the anticipated emergency scenarios for the heap leach facility only a major failure of the embankment due to an extraordinary seismic event during periods of extreme cold weather present a situation in which a full evacuation should be considered. Site evacuation may be authorized by the Mine General Manager or designated Incident Commander if catastrophic failure of the HLF embankment has occurred or is assessed to be imminent.

As part of the FMEA and design of the Mine an inundation map was developed which predicts the locations which would be flooded by PLS during a catastrophic failure of the embankment. Figure 8-1 illustrates the anticipated inundation areas for a catastrophic failure of the HLF embankment. It should be noted that camp area is outside of the inundation zone and will serve as muster location in case site evacuation is ordered.

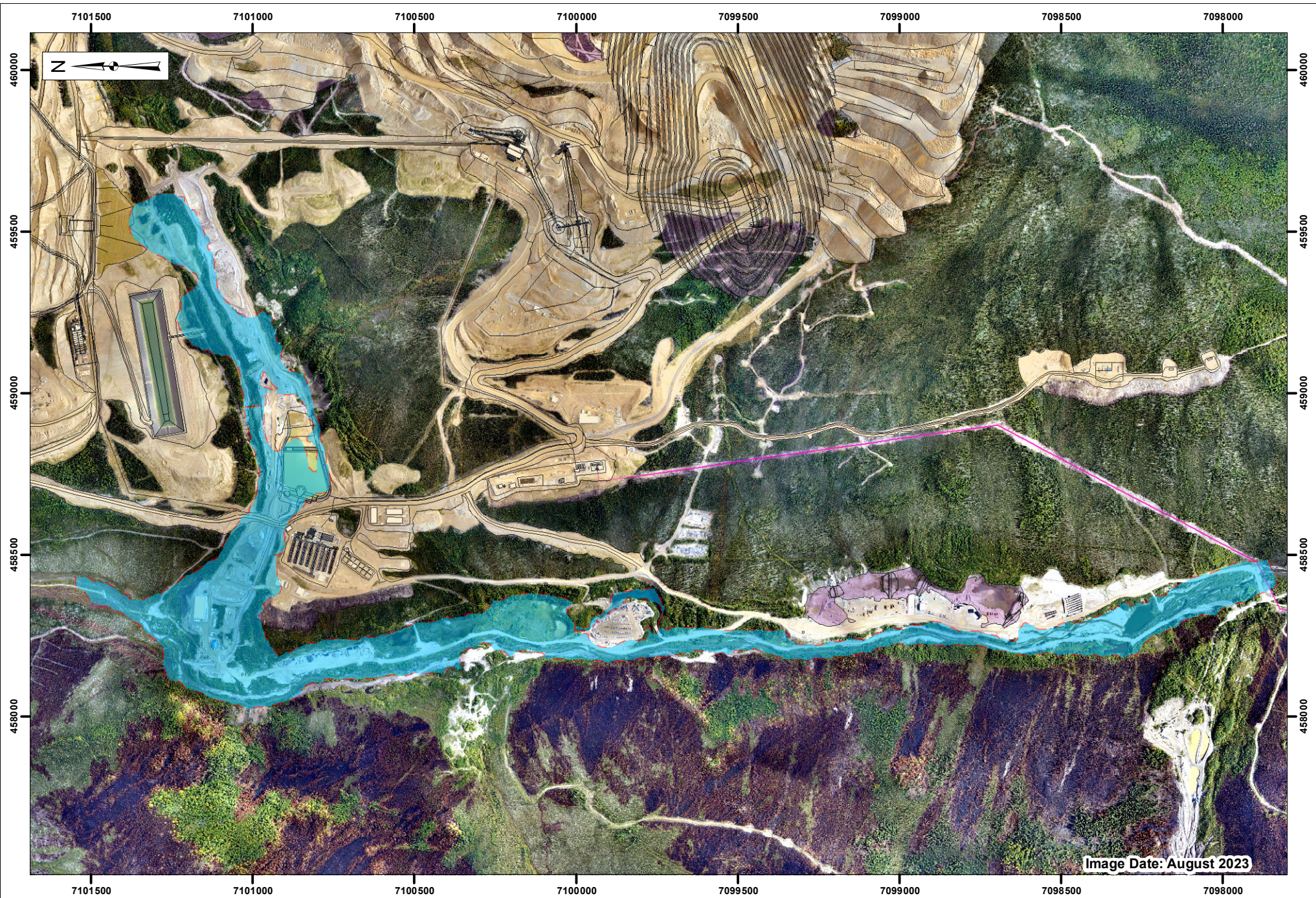


Image Date: August 2023

Legend:

- Inundation Area
- Built
- Not Built
- Facility
- Site Power

VICTORIA
GOLD CORP

Meters

Projection:
NAD 83
UTM Zone 8

Date:
2024/04/01

Drawn By:
HC

Figure:
8.1

**EAGLE GOLD MINE
YUKON TERRITORY**

**HLF Dam Breach
Inundation Mapping**

9 REFERENCES

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