



Canada

OVERVIEW ႁႃႈတၢ်ပူၼ်ႇ

- Mandate
- Relevant Acts and Regulations
- Status of Environment and Climate Change Canada's Concerns
- Technical Comments and Recommendations

ENVIRONMENT AND CLIMATE CHANGE CANADA'S MANDATE

- The preservation and enhancement of the quality of the natural environment, including water, air and soil quality, and the coordination of the relevant policies and programs of the Government of Canada
- Renewable resources, including migratory birds and other non-domestic flora and fauna
- Meteorology
- The enforcement of rules and regulations

RELEVANT ACTS AND REGULATIONS

CL'ᑭᑦᑭᑦᑭᑦ ᐱᑦᑭᑦᑭᑦ ᐱᑦᑭᑦᑭᑦ

- *Department of the Environment Act*
- *Canadian Environmental Protection Act*
- *Fisheries Act – Pollution Prevention Provisions*
- *Migratory Birds Convention Act*
- *Species at Risk Act*
- ᐱᑦᑭᑦᑭᑦᑭᑦ ᐱᑦᑭᑦᑭᑦ
- ᐱᑦᑭᑦᑭᑦᑭᑦ ᐱᑦᑭᑦᑭᑦᑭᑦ ᐱᑦᑭᑦᑭᑦᑭᑦ ᐱᑦᑭᑦᑭᑦᑭᑦ
- ᐱᑦᑭᑦᑭᑦᑭᑦ ᐱᑦᑭᑦᑭᑦᑭᑦ ᐱᑦᑭᑦᑭᑦᑭᑦ ᐱᑦᑭᑦᑭᑦᑭᑦ
- ᐱᑦᑭᑦᑭᑦᑭᑦ ᐱᑦᑭᑦᑭᑦᑭᑦ ᐱᑦᑭᑦᑭᑦᑭᑦ ᐱᑦᑭᑦᑭᑦᑭᑦ
- ᐱᑦᑭᑦᑭᑦᑭᑦ ᐱᑦᑭᑦᑭᑦᑭᑦ ᐱᑦᑭᑦᑭᑦᑭᑦ ᐱᑦᑭᑦᑭᑦᑭᑦ



Technical Comments

Current status of ECCC Technical Comments ሲፈጸሙ የኤፍ ድርጅቶች ንጽሕና ማስረጃዎችን በመለየት የተዘጋጀው የቴክኒካል አመለካከት (ECCC) ለጥበቃ ተቀባይነት (TC)

[illegible]

Technical Comments

Current status of ECCC Technical Comments ሲፈጸሙ የኤርትራ ንብረት አስተዳደር (ECCC) ለቴክኒካል ድንጋጌ (TC)

[illegible]

P^aJ^cC^b<^c▷^b▷^d▷^r>^c (FC)

- [illegible]

Final Comments (FC)

- FC-1 to FC-11 relate to the Interim Closure & Reclamation Plan;
 - FC-12 pertains to the Technical Memorandum Effects of Wet Year Scenarios on Water Management
 - FC-13 relates to the Technical Memorandum Mixing zone boundaries in Mammoth Lake and Whale Tail Lake (South Basin);
 - FC-14 & FC-15 refer to the Draft Water Licence

[illegible]

- include commitments made by the proponent
- specify closure water quality objectives representative of baseline conditions or national water quality objectives or site-specific water quality objectives
- include a map showing post-closure drainage conditions, with connectivity between surface waters and water management structures identified, including potential for fish passage

ከዚህ በፊት የተገኘው የፌዴራል የፍትሕ ሚኒስቴር
 የፌዴራል የፍትሕ ሚኒስቴር (ECCC) ለፌዴራል የፍትሕ
 ሚኒስቴር የፌዴራል የፍትሕ ሚኒስቴር ለፌዴራል የፍትሕ
 ሚኒስቴር፡

- [illegible]

ECCC FC2 – Flooded Pit Lake Closure Objective

ECCC recommends

- The proponent revise the second water closure objective in Table 5.2-2: Closure Objectives and Criteria as outlined in ECCCC's January 23, 2020 final written submission to the Nunavut Water Board

ከፈርንግ ልዩነት ለሚገኝ ለፈርንግ ስርዓት
ለሚገኝ ለፈርንግ ስርዓት (ECCC)
ለሚገኝ ለፈርንግ ስርዓት

- ለፍርድቤት ምርመራ ማድረግ
 ጋራ ፍርድ ለፍርድ ምርመራ ማድረግ
 ለክልሉ ምርመራ ማድረግ 5.2-2-ፍርድ:
 ምርመራ ማድረግ ለክልሉ ፍርድ
 ፍርድ ምርመራ ማድረግ
 ምርመራ ማድረግ ምርመራ ማድረግ
 ምርመራ ማድረግ ምርመራ ማድረግ
 ምርመራ ማድረግ ምርመራ ማድረግ
 ምርመራ ማድረግ ምርመራ ማድረግ

ECCE FC3 – Containment of Water in Closed Underground Mine

ECCC recommends

- The proponent confirm all underground workings and surface openings will be sealed off and minewater will not daylight and reach surface waters.
- The interim closure and reclamation plan should include a contingency plan and water quality monitoring if there could potentially be surface flows of groundwater.

ከፈርንግ ልዩባርኪፕታን ልጊ ሆሮፕሪ
ሰላምታን (ECCC) ልጊ ሆሮፕሪ

- [illegible]

[illegible]

- The proponent add the new water closure objective to Table 5.2-2: Closure Objectives and Criteria – Open Pits Workings as outlined in ECCC’s January 23, 2020 final written submission to the Nunavut Water Board.

[illegible]

[illegible]

- The proponent include revisions to Table 5.2-3 Closure Objectives and Criteria – Waste Rock Storage Facility as outlined in ECCCC’s January 23, 2020 final written submission to the Nunavut Water Board

[illegible]

ECCC FC6 – Waste Rock Storage Facilities – Contingencies

ECCC recommends that:

- the proponent identify contingencies to address the possibility that the waste rock storage facility cover(s) does not perform as expected.

ከፈርግር ልዩበርኪትዎ ልጊ ሆሮፍ
ሰላምታዊ (ECCC) ልሳኔ ጋለጥኦ:

- [illegible]

ECCC FC 7 – Transportation Routes – Closure Objectives and Criteria

ECCC recommends adding to Table 5.2-5

- Add a closure objective to prevent degradation of surface waters;
- Identify appropriate closure criteria and actions/measurements to support the above-recommended closure objective;
- Identify methods to prevent potentially acid generating bedrock from becoming exposed along the corridor of the Project haul road; and,
- Identify erosion prevention methods.

baccarat ልዩጋታዊ ልሳን የሚጠይቅ ልማት
(ECCC) ለኢትዮጵያ ልማት ባንክ በጥቅም 5.2-5-ጋ

- Δαῖτον βῆ δ' ἀνέλεειν αἶμα ἵππων
 ὀψέεσσι καὶ ἀνὰ σπῆντα βῆ δ' ἄλκιον
 ἥβησεν δὲ σὺν Διὶ σὺν;
- ἥβητον βῆ δ' ἀνέλεειν αἶμα ἵππων
 ἀνὰ σπῆντα βῆ δ' ἄλκιον
 ἥβησεν δὲ σὺν Διὶ σὺν Ἰφιδάμαντι
 ἀνὰ σπῆντα βῆ δ' ἀνέλεειν αἶμα ἵππων
 ἄλκιον ἥβησεν δὲ σὺν Διὶ σὺν Ἰφιδάμαντι;
- ἥβητον βῆ δ' ἀνέλεειν αἶμα ἵππων
 ὀψέεσσι καὶ ἀνὰ σπῆντα βῆ δ' ἄλκιον
 ἥβησεν δὲ σὺν Διὶ σὺν Ἰφιδάμαντι
 ἀνὰ σπῆντα βῆ δ' ἀνέλεειν αἶμα ἵππων
 ἄλκιον ἥβησεν δὲ σὺν Διὶ σὺν Ἰφιδάμαντι;
- ἥβητον βῆ δ' ἀνέλεειν αἶμα ἵππων
 ἀνὰ σπῆντα βῆ δ' ἄλκιον
 ἥβησεν δὲ σὺν Διὶ σὺν Ἰφιδάμαντι
 ἀνὰ σπῆντα βῆ δ' ἀνέλεειν αἶμα ἵππων
 ἄλκιον ἥβησεν δὲ σὺν Διὶ σὺν Ἰφιδάμαντι.

ECCC FC 7 – Transportation Routes – Closure Objectives and Criteria

ᑲᓇᑕᑦᑕ ᐃᑦᑕᑦᑕᑦᑕᑦᑕ ᐃᑦᑕᑦᑕ ᑦᑕᑦᑕ ᐃᑦᑕᑦᑕᑦᑕᑦᑕ ᐃᑦᑕᑦᑕᑦᑕᑦᑕ ᐃᑦᑕᑦᑕᑦᑕᑦᑕ ᐃᑦᑕᑦᑕᑦᑕᑦᑕ 7 (ECCC FC 7) – ᐃᑦᑕᑦᑕᑦᑕᑦᑕ ᐃᑦᑕᑦᑕᑦᑕᑦᑕ – ᐃᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕ ᐃᑦᑕᑦᑕᑦᑕᑦᑕ ᐃᑦᑕᑦᑕᑦᑕᑦᑕ

ECCC recommends adding to Section 5.2.7.5:

- Erosion prevention with respect to any in-stream work

ᑲᓇᑕᑦᑕ ᐃᑦᑕᑦᑕᑦᑕᑦᑕ ᐃᑦᑕᑦᑕ ᑦᑕᑦᑕᑦᑕ ᐃᑦᑕᑦᑕᑦᑕᑦᑕ (ECCC) ᐃᑦᑕᑦᑕᑦᑕᑦᑕ ᐃᑦᑕᑦᑕᑦᑕᑦᑕ ᐃᑦᑕᑦᑕᑦᑕᑦᑕ 5.2.7.5-ᑦᑕ:

- ᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕ ᐃᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕ ᐃᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕ ᐃᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕ



ECCC FC 8 – Transportation Routes – Acid Rock Drainage

Prevention

[illegible]

▶ ሥፍራ ልሳሥ ርዕሰ ሰራ

ECCC recommends that the Interim Closure and

Reclamation Plan provide the following additional information:

- identify how the haul road corridor and surface waters will be monitored;
- describe how impacts would be assessed; and
- identify mitigation and contingency options.

$$b_a C \Gamma^c \triangleleft \triangleleft \cap C n \Gamma^b d^c \triangleleft^L L \supset \Gamma^c \triangleright^c$$

$\Delta^{\mu}\Delta^{\nu}J^{\alpha\beta}<^c c \sigma^{\epsilon} J^c$ (ECCC) $\Delta L^{a,b,c} \supset \Delta r^c$

$$\triangleright^b \delta \triangleleft^{qb} <^c c \triangleleft \sigma^q \rfloor^c \triangleleft^L L \triangleright \triangleright \cap^{qb} \cap \cap \cap \sigma^q \rfloor^c$$
^cq▷nΓ^c Δc▷⌋n^b▷d◁[illegible]

- [illegible]

ECCC FC 9 – Water Management Facilities – Closure Objectives and Criteria

ECCC recommends:

- revision to Table 5.2-7 Closure Objectives and Criteria – Water Management Facilities as outlined in ECCC’s January 23, 2020 final written submission to the Nunavut Water Board

ከሚገኙት ልዩነቶች ምክንያት ሆኖ
 ለጥናቱ (ECCC)
 ልዩነቶች ምክንያት ሆኖ:

- [illegible]

ECCC FC 10 – Water Management Facilities – Contingencies

ECCC recommends that the interim closure and reclamation plan:

- include a discussion of whether and how in-situ treatment of the flooded pit lake would be feasible, and how long in-situ treatment could be provided.
- identify and describe alternative water management contingency options in the event monitoring indicates water in the flooded area is not suitable for direct discharge/reconnection to surface waters.

ከዚህ በፊት የተገኘው የፌዴራል የፍትሕ ሚኒስቴር
 የፌዴራል የፍትሕ ሚኒስቴር (ECCC) ለፌዴራል የፍትሕ ሚኒስቴር
 የፌዴራል የፍትሕ ሚኒስቴር የፌዴራል የፍትሕ ሚኒስቴር
 የፌዴራል የፍትሕ ሚኒስቴር:

- ልረጋገጥኩልኝ ምሳሌዎችን
ለረጋገጥኩልኝ ምሳሌዎች ልረጋገጥኩልኝ
ምሳሌዎች ልረጋገጥኩልኝ ምሳሌዎች
ለረጋገጥኩልኝ ምሳሌዎች ልረጋገጥኩልኝ
ለረጋገጥኩልኝ ምሳሌዎች ልረጋገጥኩልኝ
- ምሳሌዎችን ለምሳሌዎች ልረጋገጥኩልኝ
ለምሳሌዎች ልረጋገጥኩልኝ ምሳሌዎች
ለምሳሌዎች ልረጋገጥኩልኝ ምሳሌዎች
ለምሳሌዎች ልረጋገጥኩልኝ ምሳሌዎች
ለምሳሌዎች ልረጋገጥኩልኝ ምሳሌዎች

**ECCC FC 11 – Post-Closure Monitoring ኤርሮፍ ልዩ ስርዓት ልረጋገጥ
የረዕይ ልዩ ስርዓት ልረጋገጥ የሚገባው የፍቃድ 11 (ECCC FC 11) –
ፍቃድ ልረጋገጥ የሚገባው ስርዓት ልረጋገጥ**

ECCC recommends that:

- the post-closure monitoring period be open-ended, defined by conditions rather than a pre-set time period.

$b_{\alpha} C \Gamma^C \trianglelefteq \mathcal{N} C \alpha \beta^b \delta^C \trianglelefteq L \supset \rho C \triangleright^C$
 $\trianglelefteq \rho \trianglelefteq \alpha \beta^b \trianglelefteq C \sigma^C \sqcup^C$ (ECCC)
 $\Delta L^{\alpha} \dot{\alpha}^b \supset \Delta \rho^C$:

- ስለሚገኝ ስርዓተ ልማት ምርመራ ማድረግ
 ምርመራ ማድረግ ማድረግ ማድረግ ማድረግ
 ስለሚገኝ ስርዓተ ልማት ምርመራ ማድረግ
 ምርመራ ማድረግ ማድረግ ማድረግ ማድረግ
 ስለሚገኝ ስርዓተ ልማት ምርመራ ማድረግ
 ምርመራ ማድረግ ማድረግ ማድረግ ማድረግ
 ስለሚገኝ ስርዓተ ልማት ምርመራ ማድረግ
 ምርመራ ማድረግ ማድረግ ማድረግ ማድረግ

ልዩ ልማት ምክር ቤት ሥልጣን ለሰጠው የጋራ ምርጫ 12 (ECCC FC 12) – ልዩ ልማት
 ልዩ ልማት ምክር ቤት ሥልጣን ለሰጠው የጋራ ምርጫ (ልዩ ልማት ምክር ቤት ሥልጣን 2020)

- the proponent provide details on managing potential excess flows at Quarry 1 during June 2020, and
- discuss whether Quarry 1 would provide sufficient retention time to allow storage of potential excess flows, pending treatment at the Water Treatment Plant.

[illegible]

[illegible]

- opportunities to improve source control; and
- options to improve the Water Treatment Plant effluent quality, to minimize the risk of potentially exceeding Canadian water quality guidelines and/or site specific water quality objectives in June in Mammoth Lake and Whale Tail Lake.

[illegible]

[illegible]

- the proponent increases water quality monitoring in the receiver and downstream during months of high-flow discharge and in the month following the end of high-flow discharge (i.e., during June and July).

[illegible]

ECCC FC 14 – Licence Term ኤርሮፖል ልዩነት ስራ ለሚፈጸምበት ጊዜ ምን ያህል ሊቆይ ይችላል፡፡
ፈጣሪው ምን ያህል ጊዜ ይፈቀድበት ይችላል፡፡ ECCC FC 14) –
ፈጣሪው ምን ያህል ጊዜ ይፈቀድበት ይችላል፡፡

ECCC recommends that:

- the proponent provide a rationale for the requested licence time frame, and discuss other milestones in the life of project which may be more appropriate timing for the licence renewal.

ከሚገኙ ልዩነቶች ምሳሌ ለምሳሌ የሚታዩት
 ለምሳሌ የሚታዩት (ECCC)
 ለምሳሌ የሚታዩት:

- [illegible]

ECCC - FC 15 – Comments on the Draft Water Licence ᑭᐱᑦᑕᑕᑦ ᑭᐱᑦᑕᑦ 15 (ECCC FC 15) – ᑭᐱᑦᑕᑦᑕᑦᑕᑦ ᑭᐱᑦᑕᑦᑕᑦᑕᑦ ᑭᐱᑦᑕᑦᑕᑦᑕᑦ

ECCC has provided recommendations on the draft water licence in our January 23, 2020 final written submission submitted to the Nunavut Water Board.

ECCC-ᑭᐱᑦᑕᑦᑕᑦᑕᑦ ᑭᐱᑦᑕᑦᑕᑦᑕᑦ ᑭᐱᑦᑕᑦᑕᑦᑕᑦ ᑭᐱᑦᑕᑦᑕᑦᑕᑦ ᑭᐱᑦᑕᑦᑕᑦᑕᑦ ᑭᐱᑦᑕᑦᑕᑦᑕᑦ ᑭᐱᑦᑕᑦᑕᑦᑕᑦ ᑭᐱᑦᑕᑦᑕᑦᑕᑦ ᑭᐱᑦᑕᑦᑕᑦᑕᑦ.



Thank you ᐅᐅᐅᐅᐅᐅ



Environment and
Climate Change Canada

Environnement et
Changement climatique Canada

Canada