



Environment and
Climate Change Canada

Environnement et
Changement climatique Canada

Avatiliqiniq unalu Hilaup
Aallannguqpallianingit Kanata

Hope Bay Type A Water Licence Amendment Technical Session Presentation by Environment and Climate Change Canada

**Kapihiliktuk Qanurinninga A Imaq Laisikhaq
Ihuaqhiffaarmijuq Ajurnaqtumik Katimadjutigijaat
Tuhagakhautaujuq ukunanngat Avatiliqiniq unalu
Hilaup Aallannguqpallianingit Kanata**



Canada 

Overview Ilittuqhitiit

- Mandate
- Relevant acts and regulations
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- Havaaghait
- Ihuaqutauyut Maligaghat Maliktaghallu
- Ajurnaqtumik Kiuhimajangit unalu Angiqtaugialgit



Environment and Climate Change Canada's Mandate Avatiliqiniq unalu Hilaup Aallannguqpallianingit Kanatami Havaaghait

- Preservation and enhancement of the quality of the natural environment, including water, air and soil quality;
- 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; and
- Enforcement of regulations
- Hapummijakhaat unalu akhuuqhimajangit haffumani nakuudjutikhaat ilitquhingit avatingit, ilagijaat imaq, anuri unalu nuna nakuudjuhingit;
- Aulapkaqhimajuq haffumani nalaumajumik atuagait unalu pinahuarutikhangit haffumani Kanata Kavamarjuanga;
- Atuffaanginnarialgit maniliurahuarutit, ukuatlu ingilrayut tingmiat aadlallu nunaungittumi nauhimayut huradjallu;
- Hilaliqiniq; unalu
- Akhuuqpiaqtangit haffumani maliguarutit



Relevant acts and regulations Ihuaqutauyut Maligaghat Maliktaghallu

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

Havakviat Avatiliqiyit Maligait
Kaniitian Avatinik Munaqtit Maligait
Iqalliqiyit Maligait –
Halumaiqtailiniqmut Maliktaghat
Tikitaqtut Tingmitjat Katimayit
Maligait
Amiriyaghat Anngutighat Maligait



ECCC-TRC-01: Dust Related Impacts to Water Quality

ECCC-TRC-01: Ihiq Ilagijaat Hulaqutingit Imaq Nakuudjuhinga

- ECCC recommends the Proponent:
 - Discuss the direction dust from the dry stack would be expected to disperse, including predictions for dispersion distance from the facility;
 - Discuss planned measures to mitigate and monitor for dust and snowpack deposition related impacts on water bodies from the dry stack tailings. This should be outlined in an existing monitoring and management plan or a new plan prior to transition to dry stack; and
 - Discuss planned monitoring in advance of implementation of the dry stack configuration to characterize existing dust/snow conditions in the absence of the dry stack tailings facility.



ECCC-TRC-01: Dust Related Impacts to Water Quality

ECCC-TRC-01: Ihiq Ilagijaat Hulaqutingit Imaq Nakuudjuhinga

- ECCC maligialik una Havaakhaliurumajuq:
 - Niplautigilugut ihiq uvanngat paniqhimajuq katitiqhimajuq niriugijaujuq hiamilaaqtuq, kangiqhivluniuglu hiamilaaqhuni ungahiktumut havagviannit;
 - Niplautigilugut upalungaiqhimajuq uuktuutigijangit ingattaqtailinahuarlugit munarilugillu ihiq unalu aputit kititiqhimajut iqqaqhimajut ilagijaujut uvanngat hulaqutigijaat imait katitiqhimajut uvanngat paniqhimajuq katitirningit kuvviit. Una tukiliattiaqtaujukhaq atuqtaaahimajangit munarijaujuq unalu munarihimaningit upalungaijaut unaluuniit nutaamik upalungaijautikhangit turaaqtautinnani uvunga paniqhimajuq katitirningit; unalu
 - Niplautigilugut munarijaujukhaq pilmmakhaqtautinnani haffumani paniqhimajuq katitirningit kuvvirviit.



ECCC-TRC-02: Aquatic Effects Monitoring Program (AEMP) Monitoring Stations

ECCC-TRC-02: Imarmiuttat Iitquhiit Munaqhiijakhaq Havaarijakhaq (AEMP) Munaqhiiqarviit

- ECCC recommends the Proponent provide additional analysis and discussion on the following:
 - Whether the reasons for monitoring and monitoring triggers in Table 3.1-1 will change with the Operational Update and update the table accordingly;
 - Discuss whether expanded more comprehensive monitoring is required in Windy and Imniagut Lakes; and
 - Provide rationale for whether existing monitoring stations in Windy Lake and Patch Lake are in suitable locations to detect indirect changes due to proximity to mine infrastructure.



ECCC-TRC-02: Aquatic Effects Monitoring Program (AEMP) Monitoring Stations

ECCC-TRC-02: Imarmiuttat Iitquhiit Munaqhiijakhaq Havaarijakhaq (AEMP) Munaqhiiqarviit

- ECCC malikhimajakhaat una Havaakhaqhiuqtuq ilaliutilugu naujaittiarvikhangit unalu niplautigijaujut haffumani:
 - Humiliqaak hungmangaat munarijaujukhaq unalu munarijauniq tuluqtautiningit uvani Naunaitkut 3.1-1 aallannguqtilaaqqauk ukunanngat Aulattittinirnut Nutaannguqtiqtangit unalu nutaannguqhiilugit naunaitkut naammaktumik;
 - Niplautigilugut qanurlu angiglihimajuummilugu iniqpiaqhimajuq munaqhiijangit maliktaujukhaq uvani Windy unalu Imniagut Tahiit; unalu
 - Tunihilugu hivunigijaujuq haffumani atuqtaaahimajangit munaqhiiqarviit uvani Windy Tahiq unalu Patch Tahiq naammagijaujuk najugait nalunaiqhigiami takunnaittut aallannguqtiqtaqtut ungahingningat ujaraqtarviuhimajuq.



ECCC-TRC-03: Aquatic Effects Management Plan Benchmarks – Federal Environmental Quality Guidelines and Canadian Council of Ministers for the Environment Guidelines Update

- ECCC recommends that the Proponent provide a review of the updated and new guidelines (FEQG and CCME) for inclusion in the AEMP and confirm whether they will be adopted as new or updated water quality benchmarks. Where the updated guidelines are not adopted, technical supporting rationale should be provided.



ECCC-TRC-03: Imarmiuttat Ilitquhiit Munarijakhaaq Upalungaijaut Kigligutaat – Kavamarjuangit Avatiliqiniq Nakuudjuhinga Maliktakhangit unalu Kaniitian Katimajiita Ministait haffumani Avatiliqiniq Maliktakhangit Tuhaqtittijangit

- ECCC malitquijut hamna Havaakhaqhiuqtinut tunihilutik qimilruqtakhaat haffumani nutaanngiqtiqhimajut unalu nutaamik maliktakhangit (FEQG unalu CCME) ilagijaamingnit uvannat AEMP angiqhimalugulu qanuq tiguaqtaulaaqhutik nutaamik imaq nakuudjuhianit kigligutaat. Humiliqaak una nutaannguqhimajuq maliktakhangit tiguaqtaunngitpat, ajurnaqtumik ikajuutikhangit ilittuqpiaqtangit ilaliutijakhaat.



ECCC-TRC-04: Sewage Discharge – Tundra vs Tailings Impoundment Areas (TIA)

ECCC-TRC-04: Anarnikkut Kuvviq – maniqqami uvungaluuniit Kuvviit Tutquumavik Iniit (TIA)

- ECCC recommends the Proponent provide:
 - A discussion of the necessity to discharge sewage to the tundra or whether all sewage effluent could be combined with other wastewater streams and directed to the TIA;
 - Discuss whether other similar projects utilize sewage effluent discharge to the tundra;
 - Predicted volumes of sewage effluent discharged to the tundra under maximum camp capacity compared to recent discharge volumes and current maximum camp size volumes (400 people); and
 - An evaluation of whether existing monitoring in Doris Lake is appropriate to monitor for effects from the sewage effluent discharge, given the increased volumes of the sewage effluent.



ECCC-TRC-04: Sewage Discharge – Tundra vs Tailings

Impoundment Areas (TIA)

ECCC-TRC-04: Anarnikkut Kuvviq – maniqqami uvungaluuniit Kuvviit Tutquumavik Iniit (TIA)

- ECCC maliqtuijut una Havaakhaqhiuqtinut pijukhaq:
 - Katimadjutigijaujuq haffumani pijumajaujuq kuvihimalugit anarnikkut maniqqami uvaniluuniit tamaat anarniit qurluangit ilagijaulaaqtuq aallat imaq halumaittut qurluangit munarijaulaaqhuni uvanngat TIA;
 - Niplautigilugut qanuq aallat aadjigiiktut havaarijakhat atuqtaulaaqhutik anarnikkut kuvviit kuvilaaqtut maniqqamut;
 - Kangiqhihimainnaqtangit anginiqhat anarnikkut kuvviit kuvilaaqtut maniqqamut malikhimalugit angitqijaanit tangmaarvik inugiangningit tautukhimalugillu qanilruanit kuvviit aktilaangit unalu tadjanginiqhat tangmaarvik aktilaangit (400 inuit); unalu
 - Qimilruqhimalugit qanurli atuqhimajangit munaqhijut uvani Doris Tahiq nalaumavuuq munaqhigiami qanuriliuqtauningit uvanngat anarnikkut kuvviit kuvijaujuq, taimaa angivalliajuq aktilaangit haffumani anarniit kuvviingit.



ECCC-TRC-05: Updates to Water Licence and Water Management Locations and Monitoring

ECCC-TRC-05: Tuhaqtittivlutik uvunga Imaq Laisikhangit unalu Imaq Munarijaujut Najugait unalu Munaqhiijangit

- ECCC recommends that:
 - Changes in the marked-up update to the Licence (including but not limited to Tables 2 and 3) are accompanied by clear rationale describing the basis for the changes; and
 - The Proponent provide a figure that depicts any new proposed monitoring stations in relation to relevant infrastructure (e.g. waste rock piles, ore storage, etc.) to facilitate understanding of water management and monitoring.



ECCC-TRC-05: Updates to Water Licence and Water Management Locations and Monitoring

ECCC-TRC-05: Tuhaqtittivlutik uvunga Imaq Laisikhangit unalu Imaq Munarijaujut Najugait unalu Munaqhiijangit

- ECCC malitquijangit hamna:
 - Aallannguqtiqhimajut uvani qaliriiqhimajaujuq tuhaqtittijangit uvunga Laisikhaq (ilagivluniuk kihimi iniqhimanngittuq uvunga Naunaitkutit 2 unalu 3) qaliriiqhimavlutik tutqirnaqtumik kiglinga tukiliuqhimajut ajurnaittumik aallannguqtiqhimajut; unalu
 - Una Havaakhaqhiuqtuq tunihijukhaq qaffiujukhaq kangiqhihimajaat nutaamik tukhiutigijaujuq munaqhiijakhaqarviit ilagivluniuk aturnaqtumik havaangit (haffuminngatut, aturuiqhimajut ujaqqat kititiqhimajut, havigajait tutquumajut, taimaittumik) ikajuutauvikhangit kangiqhinnaqtumik imaq munarijaujunut unalu munaqhiijangit.



ECCC-TRC-06: Clarity for burning at the Boston site

ECCC-TRC-06: Tutqirutaat ikulahimajuq uvani Boston najugaani

ECCC recommends that the Proponent delete the sentence “Instead, there is a burn pan for combustible materials.” from Section D1.2

Incinerator Management at Boston of the document Hope Bay Operational Update Appendix 6-H: Incinerator and Composter Waste Management Plan to be consistent with Agnico Eagle’s response to ECCC-IR-03.



ECCC-TRC-06: Clarity for burning at the Boston site

ECCC-TRC-06: Tutqirutaat ikulahimajuq uvani Boston najugaani

ECCC malitquijangit taamna Havaakhaqhiuqtinut unguvarlugu taihiniq “kihiani, ikulavik qaanganiqaqhuni hapkuat ikulalaaqtut hunavaluit.” Uvanngat Ilangani D1.2 Ingnirvingat Munaqhiivikhangut uvani Bostonmi haffumani titiqqat Kapihiliktuk Auladjutigijangit Tuhaqtittijut Naunairvik 6-H: Ingnirvingat unalu Ikulaqarvik Iqqakuut Munaqhaijangit Upalungaijautit malikhimainarlugit ukunanilu Eagle’ip maliktakhangit ECCC-IR-03.



ECCC-TRC-07: Emergency Response and Crisis Management Plan

ECCC-TRC-07: Qilanaakkuqtut Maliktakhangit unalu Irinahungniatigut Ajuqhautitigut Munaqhaijangit Upalungaijaut

ECCC recommends that the Proponent verify that the text describing a level two incident is accurate and update if necessary.

ECCC malitquijut taamna Havaakhaqhiuqti ilittuqhiilugit taamna titiraqhimajuq tukiliuqhimajuq uuktuut malruk qanuriliuqtauhimajuq nalaumattiaqhimajuq tuhaqtittijukhallu pijumagaikpat.



ECCC-TRC-08: Spill contingency plan **ECCC-TRC-08: Kuvihimahuq qilanaakkuurvingit upalungaijaut**

ECCC recommends that the Proponent update the citation for the Emergency Response Guidebook to the 2024 version in the next version of the Spill Contingency Plan.

ECCC malitquijut hamna Havaakhaqhiuqti tuhaqtittijukhaq hamna kiuhimajaat haffumani Qilamiurnaqtumik Maligialik Maliktakhaujuq makpiraaq uvunga 2024 titiqqangit tugliangani titiqqangit haffumani Kuvihimahuq Qilanaakkuurvingit Upalungaijaut.



ECCC-TRC-09: Hazardous Waste Management Plan

ECCC-TRC-09: Hivuuranaqtut Iqqakuut Munaqhaijangit Upalungaijaut

- ECCC recommends that:
 - Waste substances with a higher risk of leaks or spills be stored with secondary containment
 - For waste streams that encompass both higher risk (e.g., liquids) and lower risk (e.g., solids or substances with residual contamination) wastes, specify which storage method would be used for which type of waste.
 - Where landfarming is not effective to achieve discharge criteria, ECCC recommends exploring alternative methods of remediation for contaminated soil, gravel, and rock, before backfilling these materials underground.



ECCC-TRC-09: Hazardous Waste Management Plan

ECCC-TRC-09: Hivuuranaqtut Iqqakuut Munaqhaijangit Upalungaijaut

- ECCC malitquijangit hamna:
 - Iqqakuut hunavaluit puqtuhijumik qajangnaqtumik qurlualaaqtut uuminngaluuniit kuvihimajut tutquqtauniaqtut tugilirijaanit puukhangit;
 - Haffumani iqqakuut qurluaqhimajut ilagijaujuq tamarmik qajangnaqtumik qurluarningit (haffuminngatut, kuvilaaqtut) unalu qajagijaunngittut qurluarningit (haffuminngatut, naptujuraliit uuminngaluuniit hunavaluit amiakkungit hururnaqtut) iqqakuut, humiliqaak tutquumaviqarlutik aturlugit qanurittuuvluni iqqakuungujut;
 - Humiliqaak nunamiittut havaangit auladjutigihimaittut tikinnahuariangani kuvihimangingit uuktuutingit, ECCC malitquijut qaujihailugit ihuaqutikhangit uuktuutigiluniuk haffumani ihuaqutikhangit halumaittumik marluit, tuapalgit, unalu ujaqqat, illiritaaqtinnatik hunavaluit nunaup iluani.



ECCC-TRC-10: Hydrocarbon Contaminated Materials Plan

ECCC-TRC-10: Ilaurutit Halumaittut Hunavaluit Munaqhaijangit Upalungaijaut

ECCC recommends that the Contaminated Material Management Plan include, as appropriate, alternative methods of remediating contaminated materials.

ECCC malitquijut hamna Halumaittut Hunavaluit Munaqhaijangit Upalungaijaut ilagijaujukhaq, nalaumattiaqtumik, aallanigluuniit uuktuutikhangit haffumani ingattailinahuarlugit halumaittumik hunavaluit.



Thank You Quanaqquitit



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Annex I: Current Status of Environment and Climate Change Canada's Technical Review Comments

Ilahimajuq I: Tadjia Iilitquhia haffumani Avatiliqiniq unalu Hilaup Aallannguqpallianingit Kanata'p Ajurnaqtukkut Qimilruqtangit Kiuhimajangit

ECCC-TRC-01	Dust-Related Impacts to Water Quality	Unresolved
ECCC-TRC-01	Ihiq-Ilagijaujuq Ihuiluutaujut uvunga Imaq Nakuudjutinga	Ihuaqhijaunngittuq
ECCC-TRC-02	Aquatic Effects Monitoring Program (AEMP) Monitoring Stations	Unresolved
ECCC-TRC-02	Imarmiuttat Ilitquhiit Munaqhiijakhaq Havaarijakhaq (AEMP) Munaqhiiqarviit	Ihuaqhijaunngittuq
ECCC-TRC-03	AEMP Benchmarks – Federal Environmental Quality Guidelines and Canadian Council of Ministers for the Environment Guidelines Updates	Unresolved
ECCC-TRC-03	AEMP Kigligutait – Kavamarjuangit Avatiliqinirnut Nakuudjuhia Maliktakhaujut unalu Kaniitian Katimajiit Minisaujut haffumani Avatiliqinirnut Maliktakhaujut Tuhaqtittijut	Ihuaqhijaunngittuq
ECCC-TRC-04	Sewage Discharge – Tundra vs. Tailings Impoundment Area (TIA)	Unresolved
ECCC-TRC-04	Anarnikkut Kuvviq – maniqqami uvungaluuniit Kuvviit Tutquumavik Iniit (TIA)	Ihuaqhijaunngittuq
ECCC-TRC-05	Updates to Water Licence and Water Management Locations and Monitoring	Unresolved
ECCC-TRC-05	Tuhaqtittivlutik uvunga Imaq Laisikhangit unalu Imaq Munarijaujut Najugait unalu Munaqhiijangit	Ihuaqhijaunngittuq



Annex I: Current Status of Environment and Climate Change Canada's Technical Review Comments

Ilahimajuq I: Tadjia Iilitquhia haffumani Avatiliqiniq unalu Hilaup Aallannguqpallianingit Kanata'p Ajurnaqtukkut Qimilruqtangit Kiuhimajangit

ECCC-TRC-06	Clarity for burning at the Boston site	Unresolved
ECCC-TRC-06	Tutqirutaat ikulahimajuq uvani Boston najugaani	Ihuaqhijaunngittuq
ECCC-TRC-07	Emergency Response and Crisis Management Plan	Unresolved
ECCC-TRC-07	Qilanaakkuuqtut Maliktakhangit unalu Irinahungniatigut Ajuqhautitigut Munaqhaijangit Upalungaijaut	Ihuaqhijaunngittuq
ECCC-TRC-08	Spill contingency plan	Unresolved
ECCC-TRC-08	Kuvihimahuq qilanaakkuurvingit upalungaijaut	Ihuaqhijaunngittuq
ECCC-TRC-09	Hazardous Waste Management Plan	Unresolved
ECCC-TRC-09	Hivuuranaqtut Iqqakuut Munaqhaijangit Upalungaijaut	Ihuaqhijaunngittuq
ECCC-TRC-10	Hydrocarbon Contaminated Material Management Plan	Unresolved
ECCC-TRC-10	Ilaurutit Halumaittut Hunavaluit Munaqhaijangit Upalungaijaut	Ihuaqhijaunngittuq

