



June 27, 2025

NWB File No. 2AM-MEL1631

Karen Kharatyan
Nunavut Water Board
PO Box 119
Gjoa Haven, NU X0B 1J0

Re: Water Licence 2AM-MEL1631 Modification – Shallow Pump Underground Development within Permafrost and Water Storage in Pits

Dear Mr. Kharatyan,

Agnico Eagle Mines Limited (Agnico Eagle) is writing to the Nunavut Water Board (NWB) to provide sixty (60) days' notice of a proposed Modification to the Meliadine Mine under Part G, Item 1a, of Water Licence (2AM-MEL1631).

1. Background

Agnico Eagle has provided an overview of the 2025 Modification to the Kivalliq Inuit Association (KivIA) to ensure there is alignment and agreement with the landowners with respect to the activities proposed for the Meliadine Mine. They confirmed alignment and agreement, and on June 6, 2025 Agnico Eagle submitted an application to the Nunavut Planning Commission (NPC) to complete a screening of the modification to the Water Licence 2AM-MEL1631 including:

- Development of a portal in Pump Open Pit 2 (PUMP02) to extend access to deposits within permafrost;
- Associated temporary storage of Pump Underground Waste Rock; and
- Use of mined-out pits to store saline or contact water.

The above activities are collectively referred to as the “2025 Modification”. The NPC concluded on June 20, 2025 (NPC File No. 150864) that the proposed changes were exempt from screening by the Nunavut Impact Review Board as the Modification does not change the general scope of the original or previously amended activities (Attachment A). Our interpretation of the Water Licence is that Agnico Eagle is following the process as set out under Part G, Item 3a-g of the Water Licence for the NWB review and approval. In addition, the proposed 2025 Modification is in compliance with the conditions for the Licence.

Accordingly, we are submitting this 2025 Modification; the activities are explained (along with the supporting evidence) in greater detail in the sections below.

2. Conditions Applying to Modifications

Part G, Item 3a: Description of Facilities and/or Works to be Constructed

As set out in the enclosed materials, Agnico Eagle is proposing Modification activities under the Licence approval, including:

- Development of a portal in Pump Open Pit 2 (PUMP02) to extend access to deposits within permafrost;
- Associated temporary storage of Pump Underground Waste Rock; and
- Use of mined-out pits to store saline or contact water.

All activities of the 2025 Modification will occur in the existing permitted mine footprint but does trigger the need to make changes to existing management plans regulated under Water Licence 2AM-MEL1631: Mine Waste Management Plan, Ore Storage Management Plan, Groundwater Management Plan, and Water Management Plan.

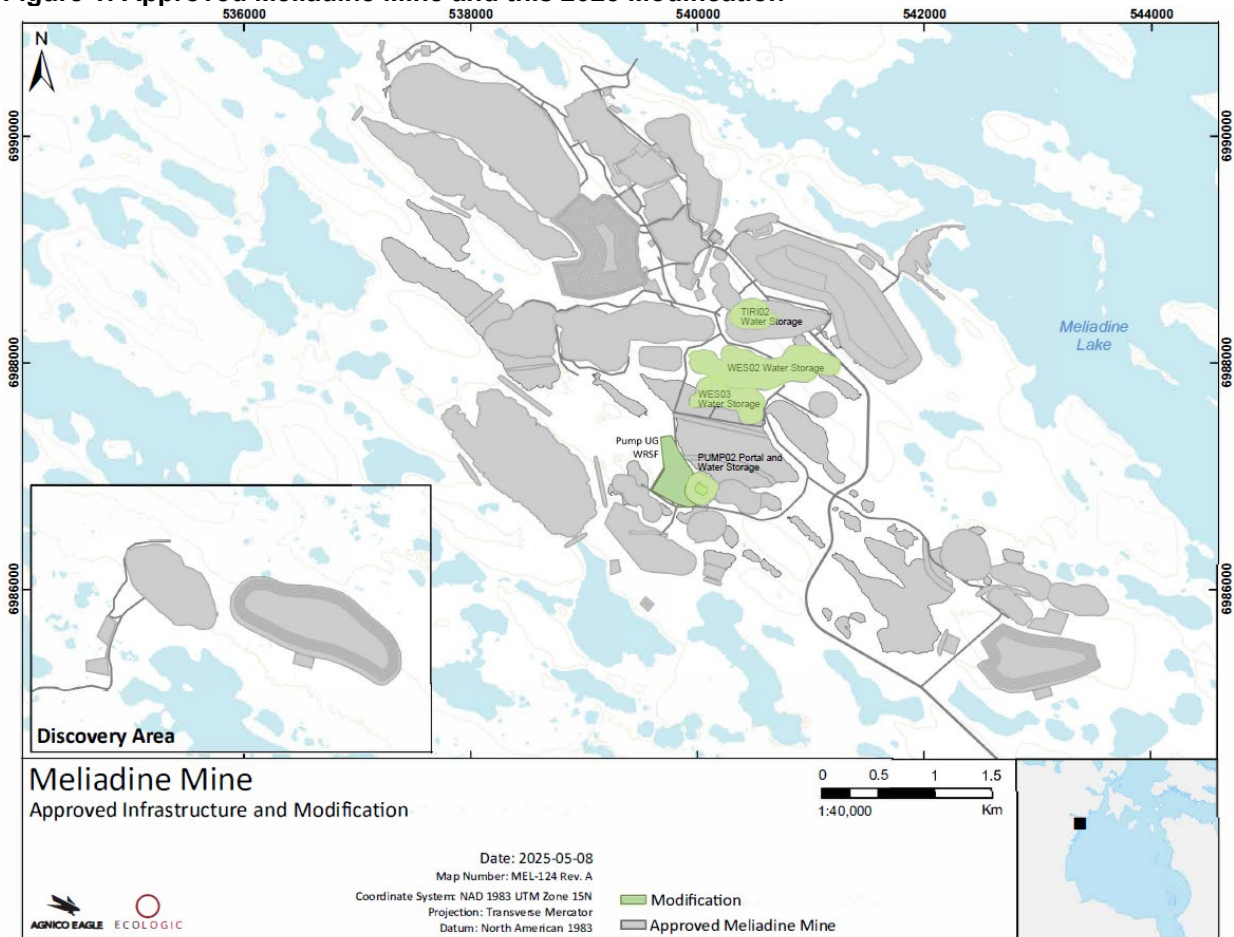
Mine waste rock from the Pump Underground will be temporary stored at the laydown pad, adjacent to Pump Open Pit 2 (PUMP02). Runoff from the Pump Underground mine waste rock will be conservatively assumed to be high in salinity and redirected to a saline sump within PUMP02, where it will be managed in accordance to the approved and existing water management infrastructures. This is consistent with management of underground waste rock from the Tiriganiaq Underground mine; saline runoff was collected in a temporary saline pond (SP4) which eventually was incorporated into Tiriganiaq Pit 1.

In addition, contact water or saline water will be stored in mined-out pits (WES02, WES03, TIRI02, and PUMP02). This approach remains within the scope of current water management practices as saline water is stored in TIRI02 and saline ponds; contact water is stored in contact water ponds and would be used to flood mined-out pits at Closure.

Part G, Item 3b: Proposed Location of Structure(s)

Activities for the 2025 Modification are located within the approved Meliadine Mine footprint (Water Licence 2AM-MEL1631), as presented in Figure 1.

Figure 1: Approved Meliadine Mine and this 2025 Modification



Part G, Item 3c: Potential Impacts to the Receiving Environment

Meliadine Mine is located within a zone of continuous permafrost and thermal modelling confirms that permafrost depth is 320 to 490 m (WSP 2024). The development of the Pump Underground will remain within the permafrost (maximum depth of 300 m). An updated Water Balance Water Quality Model has been completed, confirming that the environmental effects associated with the proposed activities remain consistent with those previously assessed under Project Certificate No. 006. No additional or unforeseen impacts are anticipated as a result of the proposed activities (Appendix A of Attachment B).

Part G, Item 3d: Monitoring Required

Agnico Eagle does not anticipate any additional monitoring from that already included under Water Licence 2AM-MEL1631 for the proposed activities. Agnico Eagle will adhere to the sampling locations, parameters measured, and frequencies of sampling as outlined in *Schedule I: Conditions Applying to General and Aquatic Effects Monitoring* of the Water Licence. The table below summarizes the existing regulated monitoring stations that will continue to support compliance with discharge criteria for the receiving environment (Itivia Harbour and Meliadine Lake). As mined-out pits are progressively used for the storage of saline or contact water, Agnico Eagle will review the verification monitoring stations and assess if additional stations, or adjustments, are warranted.

Station	Description	Phase	Monitoring Parameters	Frequency
MEL-14	Contact Water Treatment Plant from CP1 (post-treatment): end of pipe in the plant before offsite release	Construction, Operations and Closure	Full Suite, Group 3 (as per Table 1 in Water Licence 2AM-MEL1631)	Prior to discharge and Weekly during discharge
			Volume (m ³)	Daily during periods of discharge
			Acute Lethality	Once prior to discharge and Monthly thereafter
MEL-26	Itivia Harbour end of pipe (before offsite release) for treated saline effluent	Operation, Closure	Group 3 (as per Table 1 in Water Licence 2AM-MEL1631)	As per MDMER requirements

Part G, Item 3e: Schedule for Construction

Modification activities are anticipated to commence upon receipt of NWB's authorization. The current schedule is as follows:

- **2026:** Commencement of portal development within the PUMP02 area, including the temporary surface storage of waste rock generated from underground development activities.
- **Mid-2026:** Upon completion of mining operations, the PUMP02 pit will be transitioned into a saline water sump to support site water management objectives.
- **2026:** Following cessation of mining in the WES02 pit, the area will be repurposed as a saline water reservoir.
- **2027:** Following cessation of mining in the WES03 pit, the area will serve as an intermediate surface contact water reservoir to manage runoff and site water balance.

A mine plan for this modification is included in the Ore Management Plan (Attachment D; Section 3.2).

Part G, Item 3f: Drawings of Engineering Structures

Per the description of Modification in Item 3a, the temporary storage of the Pump Underground Waste Rock is the only new engineered structure in the Modification requiring drawings stamped by an Engineer.

Consistent with the approach taken for all other engineered structures at Meliadine Mine, a detailed design package will be submitted to the NWB no less than 60 days (per Part D, Item 1 in 2AM-MEL1631) prior to the planned commencement of construction.

Part G, Item 3g: Sediment and Erosion Control Measures

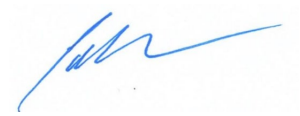
No additional sediment or erosion control measures are required at this time. The existing measures, as detailed in the approved Sediment and Erosion Management Plan (Agnico Eagle, 2025), will effectively manage potential sedimentation and erosion risks associated with the proposed Modification activities.

3. Closure

Agnico Eagle thanks the NWB for their timely review and consideration of the proposed 2025 Modification under Water Licence 2AM-MEL1631. Agnico Eagle is committed to responsibly manage waste and water resources to minimize or eliminate potential effects to the environment in accordance with the Water Licence, Project Certificate No. 006, and objectives as outlined in Management Plans for the Meliadine Mine.

Should you have any questions, please do not hesitate to contact the undersigned.

Sincerely,



Colleen Prather
Permitting and Regulatory Affairs Superintendent
Agnico Eagle Mines Limited

Attachments:

- Attachment A NPC Letter - Exempt from Screening
- Attachment B Water Management Plan
- Attachment C Mine Waste Management Plan
- Attachment D Ore Storage Management Plan
- Attachment E Groundwater Management Plan

References:

Agnico Eagle. 2025. Meliadine Gold Mine Sediment and Erosion Management Plan Version 5. March 2025.

WSP. 2024. Updated Hydrogeology Modelling. WSP Doc. CA0020476.6818-MWL2024_004-R-Rev0. January 2024.

Attachment A NPC Letter - Exempt from Screening



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Nunavunmi Parnaiyit
Nunavut Planning Commission
Commission d'Aménagement du Nunavut

June 20, 2025
NPC File No: 150864

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Dear Richard Dwyer, Tracey McCaie, DFO, Caroline Whittle, Luis Manzo, Cassel Kapolak, Jennifer Range:

RE: NPC File No: 150864 [Meliadine Mine Water Licence Amendment]

The following works and activities have been proposed in the above-noted project proposal:

1. Agnico Eagle proposes to proceed with a modification for shallow Pump Underground within Permafrost and Water Storage in Pits, operating from 2025 to 2031 under the Water Licence approval. Key activities include:
 - Development of a portal in Pump Open Pit 2 (PUMP02) to extend access to deposits within permafrost;
 - Associated temporary storage of Pump Underground Waste Rock; and
 - Use of mined-out pits to store saline or contact water.
 - Activities for the 2025 modification are located within the approved Meliadine Mine footprint
 - Anticipated changes in the required licenses or permits which will require Modification of the approved Type A WL but no other licenses/permits are required
2. Associated NPC File No: 148382, 148672, 149337, 149399; 149443, 149743, 150202; 150252 Associated NIRB File No: 11MN034, and 21WA007 (Project Certificate No. 006); Associated NWB water license: 2AM-MEA1631.
3. Location: Kivalliq Region; [near Rankin Inlet]

A complete description of the project proposal reviewed by the NPC can be accessed online using the link below.

The Nunavut Planning Commission (NPC) has completed its review of the above-noted project proposal. The NPC previously reviewed works and activities associated with the current proposal and conformity determinations were issued (e.g., June 2011, December 22, 2016, January 5, 2018, March 25, 2020, April 1, 2022, January 22, 2024, and January 25, 2024). These conformity determinations still apply. In addition, associated activities were previously reviewed by the Nunavut Impact Review Board, including construction, operation, reclamation, and closure of both underground and open-pit gold mines (NIRB File No.: 11MN034). It conforms to the Keewatin Regional Land Use Plan (KRLUP). The proponent has undertaken to comply with the applicable conformity requirements of Appendix C, G, and H of the KRLUP.

The above-noted project proposal is exempt from screening by the NIRB because the NPC is of the understanding that the proposed modification activities within the approved Meliadine Mine footprint under NIRB Project Certificate No. 006, does not change the general scope of the original or previously amended project activities, and the exceptions noted in Section 12.4.3 (a) and (b) of the Nunavut Agreement do not apply.

By way of this letter, the NPC is forwarding the project proposal to the regulatory authorities identified by the proponent. Project materials, including the applicable conformity requirements, are available at the following address: <https://lupit.nunavut.ca/portal/registry/registry.aspx?appid=150864>

The regulatory authorities to which this letter is addressed are responsible under the Nunavut Planning and Project Assessment Act (NUPPAA) to implement any of the applicable requirements by incorporating the requirements directly, or otherwise ensuring that they must be met, in the terms and conditions of any authorizations issued.

This conformity determination applies only to the above-noted project proposal as submitted. Proponents may not carry out projects and regulatory authorities may not issue licenses, permits and other authorizations in respect of projects if a review by the NPC is required. Regulatory authorities may consult with the NPC to obtain recommendations on their duties to implement the existing land use plans prior to issuing licenses, permits and other authorizations under subsection 69(6) of the NUPPAA.

My office would be pleased to discuss how best to implement the applicable requirements and to review any draft authorizations that regulatory authorities wish to provide for that purpose. If you have any questions, please do not hesitate to contact me at (867) 447-4563.

Sincerely,



Solomon Amuno, PhD
Senior Planner
Nunavut Planning Commission

Attachment B Water Management Plan

(due to file size, document is provided in standalone pdf file)

Attachment C Mine Waste Management Plan

(due to file size, document is provided in standalone pdf file)

Attachment D Ore Storage Management Plan

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Attachment E Groundwater Management Plan

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