



Nunavut Impact Review Board

2024 Site Visit Report

**Meliadine Gold Mine Project**

Agnico Eagle Mines Limited

NIRB File No. 11MN034



March 2025

**Report Title:** The Nunavut Impact Review Board's 2024 Site Visit Report for Agnico Eagle Mines Limited's *Meliadine Gold Mine Project* (NIRB File No. 11MN034)

**Project:** Meliadine Gold Mine Project  
**Project Location:** Kivalliq Region, Nunavut  
**Land Tenure:** Inuit Owned Land

**Project Owner:** Agnico Eagle Mines Limited  
Meliadine Mine Site  
Rankin Inlet, NU  
X0C 0G0

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**Site Visit:** July 28-29, 2024  
**Last Site Visit:** July 26-27, 2023  
**Community Update Session:** July 29, 2024

**Report prepared by:** Kelli Gillard PAg, CTAJ, Senior Impact Assessment Officer

**Photos by:** NIRB Staff

**Cover Photograph:** top left: overview of Mine site looking south from fuel tank by CP1  
bottom left: waterlines crossing CP1 berm  
right: waterlines brackets on south side of a bridge

## TABLE OF CONTENTS

1	Introduction.....	1
2	Meliadine Gold Mine Project Overview.....	1
3	Public Information Meeting.....	3
4	Objectives and Purpose of Site Visit .....	4
5	Meliadine Gold Mine Site Visit.....	5
5.1	OVERVIEW OF SITE VISIT .....	5
5.2	OBSERVATIONS LINKED TO THE PROJECT CERTIFICATE .....	6
5.3	SITE OBSERVATION PHOTOS .....	9
5.3.1	<i>Itivia Harbour</i> .....	9
5.3.2	<i>All-Weather Access Road</i> .....	12
5.3.3	<i>Meliadine Mine Site</i> .....	23
5.3.4	<i>New Vent Raise</i> .....	33
5.3.5	<i>New Pump Road</i> .....	34
5.3.6	<i>Camp facilities</i> .....	35
6	Conclusion .....	37

## List of Figures

Figure 1: Meliadine Mine Site (from Agnico Eagle's 2018 Annual Report; Figure 1).....	2
Figure 2: Overview of the Itivia site, Bypass Road, and community snowmobile trail. Source: Agnico Eagle's Roads Management Plan for Meliadine (March 2017). .....	2

## List of Tables

Table 1: Meliadine Modifications.....	1
Table 2: Community Information Session Meeting Materials .....	3
Table 3: Community Comments.....	3
Table 4: Summary of Observations Related to Terms and Conditions of Project Certificate No. 006, Amendment 2.....	6

## List of Photos

Photo 1: Signage at Laydown Area at Itivia Harbour.....	9
Photo 2: Sediment management at Laydown Area to Itivia Harbour.....	9
Photo 3: Fuel tanks at Itivia Harbour within secondary containment.....	10
Photo 4: Construction of new fuel tank at Itivia Harbour.....	10
Photo 5: Saline effluent pumphouse for trucked saline effluent not used in 2024. ....	11
Photo 6: Culvert #11 along Bypass Road. ....	11
Photo 7: AWAR marked by reflector poles and waterline looking east.....	12
Photo 8: AWAR and waterline looking west to Mine site.....	12
Photo 9: Looking south at uncovered waterline from tundra. ....	13
Photo 10: Looking west at uncovered waterline same location as previous photo. ....	13
Photo 11: Looking west at raised waterline and the crossing under the AWAR same location as Photo 9.....	14

Photo 12: Waterline crossing under the AWAR from north to south side looking west.....	14
Photo 13: Uncovered waterline crossing on the south side of AWAR same location as previous photo and waterline crosses under AWAR several times.....	15
Photo 14: Uncovered waterline closer view from previous photo.....	15
Photo 15: Section of AWAR awaiting construction on north side, waterline installation pending. ....	16
Photo 16: Suspended waterline to maintain waterflow in the area north side of road, view looking west. ....	16
Photo 17: Suspended waterline to maintain waterflow in the area on south side of AWAR, same location as previous photo. ....	17
Photo 18: One of several lift stations along AWAR to help send saline effluent to Itivia Harbour. ....	17
Photo 19: Caribou track crossing the waterlines by the lift station. ....	18
Photo 20: Caribou tracks between the waterlines by the lift station.....	18
Photo 21: Raised waterline profile, waterline on south side of AWAR looking east.....	19
Photo 22: Raised waterline profile, waterline on south side of AWAR with rills/natural settling looking east. ....	19
Photo 23: Installation of bedding for the waterlines, north side AWAR looking west. ....	20
Photo 24: Erosion mitigation during waterline installation, north side AWAR looking west. ....	20
Photo 25: Erosion Mitigation during waterline installation, north side AWAR looking west. Pam demonstrated how to collect Arctic cotton for Qillaq use. ....	21
Photo 26: Erosion mitigation north side of AWAR Culvert 14 looking west. ....	21
Photo 27: Example of bridge preparation for waterlines installation, south side looking west....	22
Photo 28: One of the Spill Response seacans located at each water crossing location. ....	22
Photo 29: Overview of Mine Site top photo looking west and bottom looking east. ....	23
Photo 30: Portal 1 for Tiriganiaq Underground.....	23
Photo 31: Tiriganiaq pit 1 – 2022 .....	24
Photo 32: Tiriganiaq pit 1 – 2023 .....	24
Photo 33: Tiriganiaq pit 1 – 2024 .....	24
Photo 34: Tiriganiaq Pit 2 - used for saline effluent storage 2023 .....	25
Photo 35: Tiriganiaq Pit 2 - used for saline effluent storage 2024 .....	25
Photo 36: Saline Pond 3 – not used for saline effluent discharge in 2024; however, it is used for site contact water transferred to CP1 for treatment before release. ....	25
Photo 37: Containment Pond 3 – one of six (6) containment ponds to collect site contact water.	26
Photo 38: Water Treatment Complex - contact water is treated to ensure licence parameters are met before discharge into Meliadine Lake. ....	26
Photo 39: Waste Rock Storage Facility 1 – one of two (2) waste rock storage facilities on site.	27
Photo 40: Landfill - checked to ensure no disposal of food waste. ....	27
Photo 41: Hazardous Material Storage Area. ....	28
Photo 42: New Incinerator. ....	28
Photo 43: Landfarm A. ....	29
Photo 44: Landfarm B.....	29
Photo 45: On-site fuel storage in secondary containment. ....	30
Photo 46: Waterline crossing over the Containment Pond 1 Berm. ....	30
Photo 47: Exploration Camp. The exploration camp is not in use and has been cleaned up (2023 photos). ....	31



Photo 48: Bird house for a barn swallow moved from Paste Plant to Exploration Camp. ....	32
Photo 49: Treated water discharge into Meliadine Lake by former Exploration Camp. ....	32
Photo 50: New Vent Raise south of Tiriganiaq 1, looking southeast. ....	33
Photo 51: New Vent Raise south of Tiriganiaq 1, fuel area west of Vent Raise. ....	33
Photo 52: Looking east to Pump Road from east side of Tiriganiaq 1. ....	34
Photo 53: Equipment on Pump Road moving material, looking east from Tiriganiaq 1. ....	34
Photo 54: Games Room in Meliadine Camp. ....	35
Photo 55: Music Room in Meliadine Camp. ....	35
Photo 56: Newly Painted Country Food Kitchen, photo 1. ....	36
Photo 57: Newly Painted Country Food Kitchen, photo 2. ....	36

1 INTRODUCTION

The Nunavut Impact Review Board (NIRB or Board) was established through Articles 10 and 12 of the *Agreement between the Inuit of the Nunavut Settlement Area and Her Majesty the Queen in right of Canada (Nunavut Agreement)* and is responsible for post environmental assessment monitoring of a Project in accordance with Part 7 of Article 12 of the *Nunavut Agreement* and s. 135(4) of the *Nunavut Planning and Project Assessment Act*, S.C. 2013, c. 14 (*NuPPAA*). The NIRB also provides periodic updates regarding its monitoring program to the most impacted community(ies) regarding the monitored project. The NIRB’s 2024 Site Visit of the Meliadine Gold Mine Project took place July 24 through July 29, 2024, and held a Community Information Meeting in Rankin Inlet held on July 29, 2024.

2 MELIADINE GOLD MINE PROJECT OVERVIEW

The Meliadine Gold Mine Project (the Project) operated by Agnico Eagle Mines Limited (Agnico Eagle) and comprises the construction and operation of a gold mine, approximately 25 kilometres (km) north of Rankin Inlet on Inuit-owned lands, in the Kivalliq Region. There are five (5) separate deposits that the Proponent will develop in a phased approach, including a camp and all associated mining infrastructure including facilities for waste, water, and fuel management. A 25 km all-weather access road (AWAR) and Bypass Road connects the mine to Itivia Harbour in Rankin Inlet where a barge unloading area, laydown storage, and a fuel tank farm.

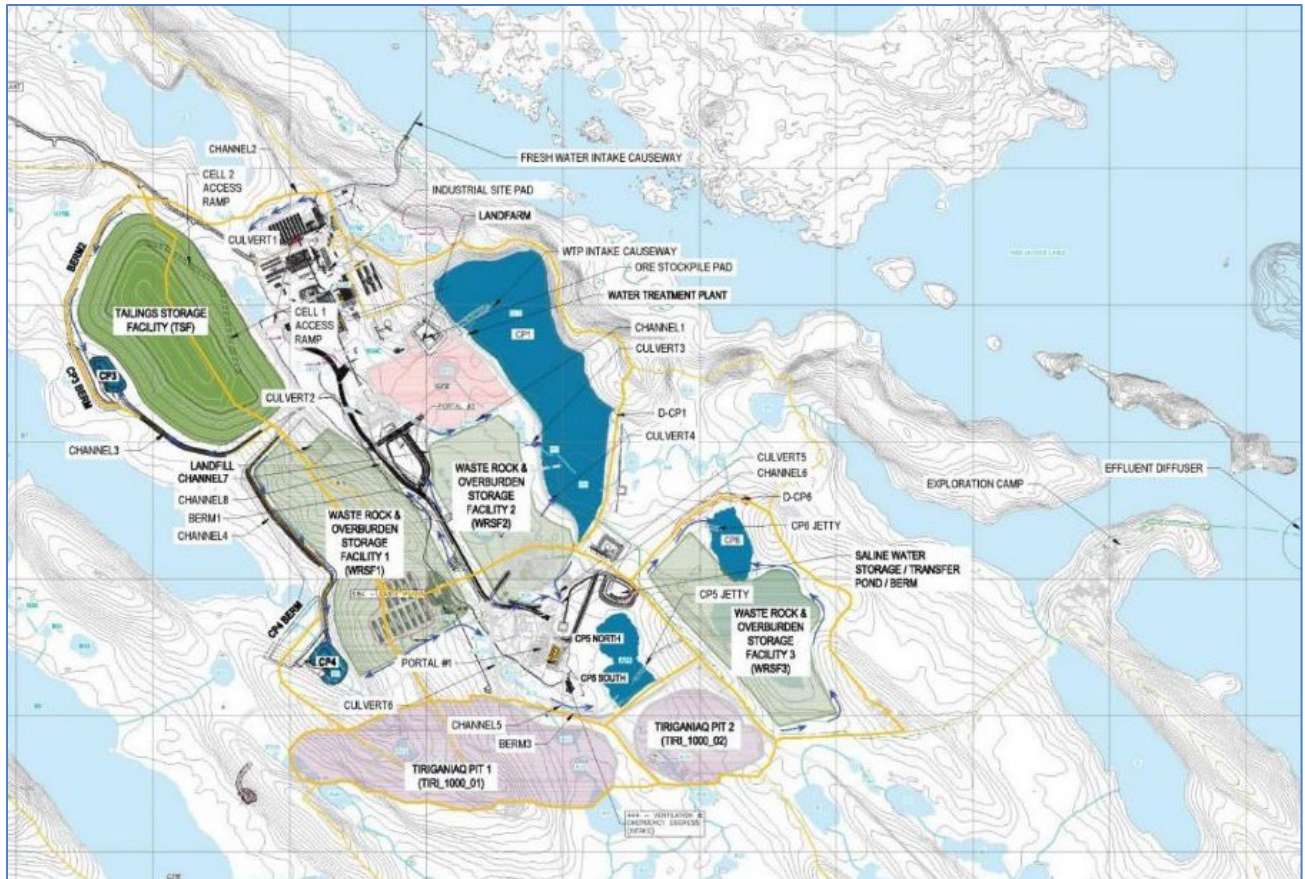
The Meliadine Gold Mine Project Certificate No. 006 has undergone two (2) amendments to manage saline effluent (salty groundwater) from the Tiriganiaq Underground deposit. The first amendment was to include trucking of saline effluent on the AWAR to Itivia Harbour and discharge into Melvin Bay at a rate of 800 m³/day. Agnico Eagle is storing its saline effluent at site in Tiriganiaq pit 2 since 2022. The second amendment (Waterlines Amendment) was to construct and operate two (2) waterlines along the AWAR to transport and discharge Saline Effluent at a rate of up to 20,000 m³/day for discharge in Itivia Harbour.

Meliadine is currently in the operations, the trucking of saline effluent to Itivia Harbour for discharge was not done in 2024, and the waterlines were under construction.

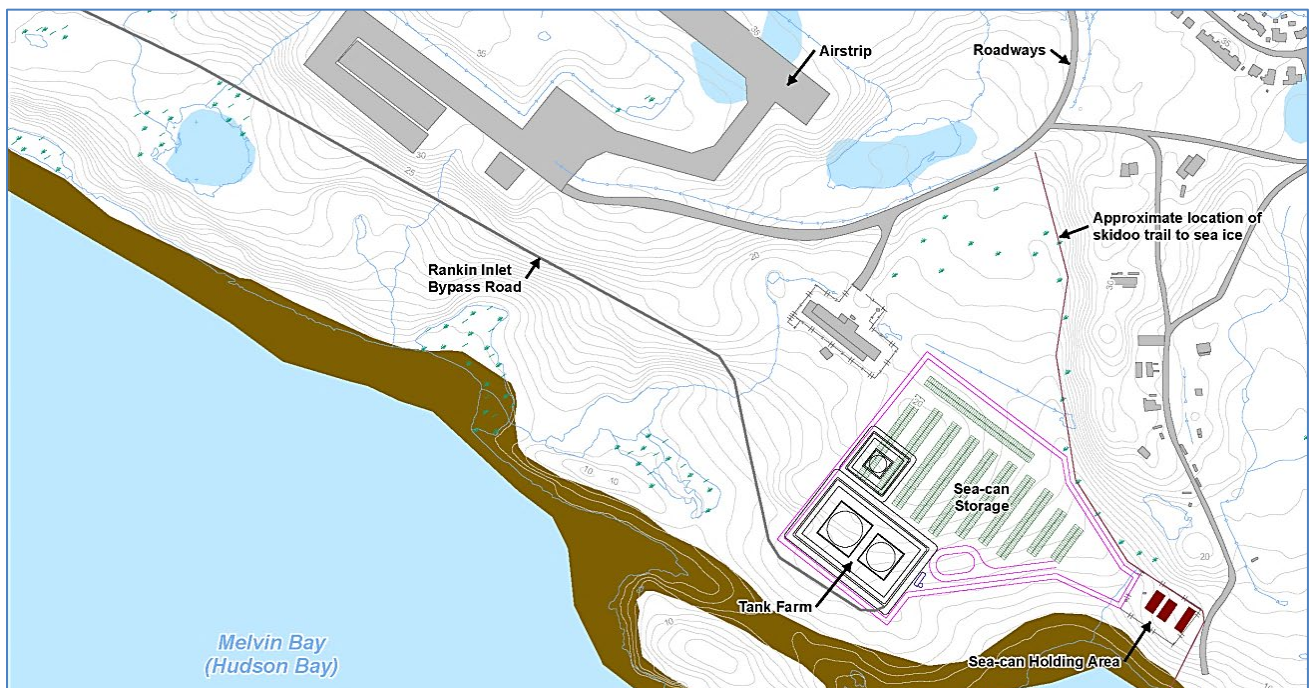
Table 1: Meliadine Modifications

Title (Years Active)	Project Dashboard	Modification
Meliadine Gold Mine (2015-2022)	<a href="http://www.nirb.ca/project/124106">www.nirb.ca/project/124106</a>	The original Meliadine Assessment and all information regarding the trucking of saline effluent from the mine site to Itivia Harbour.
Waterlines Amendment (2022-present)	<a href="http://www.nirb.ca/project/125515">www.nirb.ca/project/125515</a>	Transport the saline effluent via waterlines.

Figure 1 and Figure 2 provide a layout of the Meliadine Mine Site, and the marshalling facility at Rankin Inlet.



**Figure 1: Meliadine Mine Site (from Agnico Eagle's 2018 Annual Report; Figure 1)**



**Figure 2: Overview of the Itivia site, Bypass Road, and community snowmobile trail. Source: Agnico Eagle's Roads Management Plan for Meliadine (March 2017).**

### 3 PUBLIC INFORMATION MEETING

Leading up to the Rankin Inlet Community Information Session, the NIRB advertised the meeting through radio, poster, and online through Facebook in English and Inuktitut. NIRB staff started Community Information Session at 7:00 p.m. in the Katimavik Suites Conference Centre, with simultaneous interpretation into Inuktitut with refreshments and snacks provided. The total attendance for the sessions was: 10 including Agnico Eagle staff.

The PowerPoint presentation included information regarding:

- the NIRB's Monitoring Program;
- an update on the Meliadine Project, including an overview of the Project activities and key components; and
- events and/or issues identified through Project specific monitoring programs.

Copies of the information provided at the meeting can be obtained by using the Document ID numbers provided in Table 2 by searching the NIRB's Public Registry or by clicking on the following link and reviewing the dashboard at [www.nirb.ca/project/125515](http://www.nirb.ca/project/125515).

Both written and verbal comments were accepted at the meeting were recorded as these comments (Table 3) will be incorporated into the NIRB's 2024 Monitoring Report.

**Table 2: Community Information Session Meeting Materials**

Document	Document ID No
Letter to Hamlet Rankin Inlet Re: Community Update Session (English and Inuktitut)	350558 350557
Community Information Poster (English and Inuktitut)	350559 350559
The NIRB's PowerPoint presentation (English and Inuktitut)	351218
Comment Forms (English and Inuktitut)	N/A

**Table 3: Community Comments**

Comments
Meliadine Monitoring
<ul style="list-style-type: none"><li>• Worried about marine mammals at Itivia with the discharge of the saline water. When the saline water is discharged it changes the area.</li><li>• Want to know if it is still changed? The last discharge in the [Itivia] area was yellow and want to know if things went back to normal.</li><li>• Is there anyone else sampling in Itivia other than Agnico Eagle?</li><li>• There were dustfall jars where my cabin is.</li><li>• How far down does the open pit go?</li><li>• Agnico Eagle has helped the hamlet and taken out tires, house oil tanks and gives seacans to fill</li><li>• Where does arsenic come from, we don't want to have happen here what happened in Yellowknife</li><li>• Kivalliq Inuit Association doesn't care about Inuit, the Kangiqliniq Hunters and Trappers Organization does something</li></ul>



Comments
<ul style="list-style-type: none"> <li>Where does the sewage go? What happens to it?</li> <li>Would be good to put arrows for North in the pictures/maps that NIRB uses in its presentation and that is a suggestion to Agnico Eagle as well.</li> <li>Elder noted that never any ice at the Bay as a child, this year ice was early and lots of it, old ice gone now and new ice around and that different.</li> </ul>
Caribou
<ul style="list-style-type: none"> <li>Do you know that during caribou migrations we see helicopters chasing caribou, everyone should know the numbers to contact when this is seen [Kivalliq Inuit Association, Kangiqliniq Hunters and Trappers Organization, Government of Nunavut]</li> <li>For many years the caribou migration went through the mine and to east shore; this year they didn't go past the mine, mothers and calves passing and very few went past the mine this year.</li> <li>Mosquitos moving caribou and herding them</li> <li>On Facebook about 3 years ago near the AWAR bear bangers were being used to deter caribou</li> </ul>
Waterlines
<ul style="list-style-type: none"> <li>The waterline proposal presented imagery that the waterline would be about the height of the AWAR. But constructed line in many areas between km 19 and 26 is actually higher than the AWAR.</li> <li>Was the profile of the waterline represented correctly in the figures it presented in the NIRB's assessment process for that amendment?</li> <li>Will there be any water coming from the dump discharged through waterlines to Itivia?</li> </ul>
Socio-Economic Environment
<ul style="list-style-type: none"> <li>Heard that the Meliadine mine life was going to be shorter because the Meliadine extension was not approved.</li> <li>Meadowbank, how come employment is down? Can Agnico Eagle talk to Inuit to see what is working and what's not?</li> </ul>
Freshwater Environment
<ul style="list-style-type: none"> <li>Really yellow cloud from Meliadine in the spring. Is this what is causing the changes to the chemistry of the lakes and streams because it makes black tea now.</li> </ul>
Meliadine Extension
<ul style="list-style-type: none"> <li>Was the Meliadine Extension approved?</li> <li>Young people are still talking about the mills [wind turbines]</li> </ul>

#### 4 OBJECTIVES AND PURPOSE OF SITE VISIT

The NIRB's Site Visit was to make visual observations on the project activities being carried out in compliance with the Terms and Conditions of the Meliadine Gold Mine Project (Meliadine) Project Certificate No. 006, Amendment 2 as required by Section 12.7.2(b) of the *Nunavut Agreement* and s. 135(3)(b) of the *NuPPAA*. Management Plans (latest versions) and Project operations as described in the 2023 Annual Report submitted to the NIRB in March 2024. These observations will be incorporated into the NIRB's 2024 Monitoring Report.

## 5 MELIADINE GOLD MINE SITE VISIT

### 5.1 Overview of Site Visit

In preparation for the site visit, NIRB staff reviewed the following items: the Meliadine Project Certificate No. 006, Amendment 002; previous Site Visit Reports (where relevant); Agnico Eagle's 2023 Meliadine Gold Mine Annual Report and associated appendices, comments submitted by parties, and 2023/2024 correspondence relevant to the monitoring of the approved Meliadine Gold Mine Project.

The 2024 Site Visit was focused on overall updates to the site and items related to Project Certificate No. 006. During the tour, NIRB and Agnico Eagle Staff also discussed the Meliadine Project Certificate as they viewed the site. NIRB staff were also provided an opportunity to view the underground mining operation via Portal 1 and a tour of the Mill; however, these were for information only and were not included as part of the NIRB's site visit report.

Areas observed by the NIRB staff are listed below:

#### ***Itivia Harbour:***

- Laydown area and marshalling facility
- Fuel farm
- Saline discharge area
- Bypass Road
- Snowmobile crossings

#### ***All-Weather Access Road:***

- Gatehouse
- Snowmobile crossings
- Bridges
- Emergency spill response seacans
- Road signage
- Waterline construction
- Dust monitoring stations
- Wildlife cameras

#### ***Meliadine Mine Site:***

- Camp infrastructure
- Fuel tank storage areas
- Landfill and waste management areas
- Waste rock storage facilities
- Landfarm
- Tailings storage facility
- Incinerator
- Tiriganiaq 1 Pit
- Tiriganiaq 2 Pit
- Underground portal entrance
- Processing facility
- Exploration site
- Water intake area
- Water discharge Area
- Water treatment facilities
- Saline water ponds
- Contact water ponds
- Laydown areas
- Explosives storage
- Revegetation trial plots
- Air quality monitoring equipment
- Dust monitoring stations
- Blast monitoring equipment

## 5.2 Observations Linked to the Project Certificate

The following table summarizes observations made during the Site Visit that pertain specifically to observable Terms and Conditions of Project Certificate No. 006, Amendment 2.

**Table 4: Summary of Observations Related to Terms and Conditions of Project Certificate No. 006, Amendment 2**

T&C No.*	Topic	Site Observations
<b>Air Quality</b>		
1	Updated Air Quality Monitoring Plan	a) Air and partisol monitoring stations were functioning during the time of the site visit.  b) NIRB staff observed the dust sampling transects along the AWAR and at site.  c) Speed limits were observed to be followed by Agnico Eagle employees.
2	Emissions Monitoring	
3	Dust Management and Monitoring Plan	
4	Air Quality – Incinerator Management Plan	NIRB saw the new incinerator and the sorting of waste around the incinerator. The area was well organized, and no materials were piled at the facility. ( <a href="#">Photo 42</a> )
<b>Terrestrial Environment</b>		
16	Erosion Management Plan	NIRB observed erosion management infrastructure still in place from spring freshet and appeared to all be functional. ( <a href="#">Photo 2</a> )
17	Permafrost Integrity	Agnico Eagle and NIRB staff discussed how monitoring of permafrost is done on site.
19	Tailings and Waste Rock Monitoring Program	NIRB viewed the facilities and discussed with Agnico Eagle the current program for tailings and waste rock storage and monitoring of these facilities. ( <a href="#">Photo 39</a> )
<b>Hydrogeology and Groundwater</b>		
25	Groundwater Management Plan/Adaptive Management Plan	Agnico Eagle confirmed that saline effluent continues to be pumped to Tiriganiaq 2 for storage and no discharge into Melvin Bay occurred again in 2024. ( <a href="#">photo 35</a> )
<b>Hydrology and Sediment Quality</b>		
28	Sediment and Erosion Management	NIRB observed erosion fences at site and along AWAR. ( <a href="#">Photo 24</a> )
29	Water Infrastructure Monitoring	NIRB observed culverts around site and along the AWAR. ( <a href="#">Photo 6</a> , <a href="#">Photo 16</a> , and <a href="#">Photo 17</a> )

T&C No.*	Topic	Site Observations
Freshwater Aquatic Environment		
31	Setbacks	As in previous years, during the 2024 Site Visit the NIRB did not observe any areas where quarries were too close to fish-bearing or permanent water bodies.
32	Site Drainage and Silt Control Plan	NIRB observed erosion management infrastructure.
Vegetation		
36	Invasive Species	Current protocol to ensure that vehicles are not bringing in any invasive species to site is to inspect all vehicles prior to receiving at the barge in Quebec.
37	Monitoring for Invasive Species	Agnico Eagle confirmed the current protocol for invasive species monitoring.
Terrestrial Wildlife and Wildlife Habitat		
48	Management of road access during caribou migration.	As in previous years, Agnico Eagle discussed at site that it worked closely with the Kivalliq Inuit Association and the Kangiqliniq Hunters and Trappers Organization to ensure mine traffic did not impact large aggregations of caribou.  Agnico Eagle is using reflector poles without flagging along the AWAR during the summer to limit disturbance to caribou (Photo 7).
54	Movement of Wildlife	The AWAR is constructed to allow safe passage of caribou.  The NIRB observed a wildlife crossing over a pipeline on site.  Waterlines were being installed along the AWAR. (Photo 9, Photo 10, Photo 18, Photo 19, and Photo 20) Waterlines installation is not yet complete.
Birds and Bird Habitat		
58	Awareness	As a barn swallow had nested in the Paste Plant, Agnico Eagle in 2023 constructed a bird house on site as recommended by Environment and Climate Change Canada. The bird house was moved to the Expo Camp in 2024. (Photo 48)
59	Species at Risk	
62	Protection of nests found with a buffer zone	
Marine Environment		
77	Spill Prevention	As in previous years, spill kits were observed at various locations across the Project, including at road-side quarries, emergency sea cans on the side of the



T&C No.*	Topic	Site Observations
		AWAR, and adjacent to fuel storage areas. ( <a href="#">Photo 28</a> )
<b>Accidents and Malfunctions</b>		
125	Measures to protect public and mine traffic on all Project roads including the AWAR.	<ul style="list-style-type: none"> <li>a) The manned gate on the AWAR was operational and recording traffic, including all-terrain vehicles (ATVs). All public traffic is required to check-in with the employee at the gatehouse prior to proceeding on the AWAR.</li> <li>b) The NIRB observed Agnico Eagle calling public ATVs on the radio so other vehicles would know of their presence and location.</li> <li>c) Road signs were posted in English and Inuktitut indicating access and safety requirements of AWAR.</li> <li>d) The NIRB observed speed limit signs along the AWAR.</li> </ul>

## 5.3 Site Observation Photos

### 5.3.1 Itivia Harbour



Photo 1: Signage at Laydown Area at Itivia Harbour.



Photo 2: Sediment management at Laydown Area to Itivia Harbour.





**Photo 3: Fuel tanks at Itivia Harbour within secondary containment.**



**Photo 4: Construction of new fuel tank at Itivia Harbour.**



**Photo 5: Saline effluent pumphouse for trucked saline effluent not used in 2024.**



**Photo 6: Culvert #11 along Bypass Road.**



### 5.3.2 All-Weather Access Road



**Photo 7: AWAR marked by reflector poles and waterline looking east.**



**Photo 8: AWAR and waterline looking west to Mine site.**





**Photo 9: Looking south at uncovered waterline from tundra.**



**Photo 10: Looking west at uncovered waterline same location as previous photo.**





**Photo 11: Looking west at raised waterline and the crossing under the AWAR same location as Photo 9.**



**Photo 12: Waterline crossing under the AWAR from north to south side looking west.**





**Photo 13: Uncovered waterline crossing on the south side of AWAR same location as previous photo and waterline crosses under AWAR several times.**



**Photo 14: Uncovered waterline closer view from previous photo.**





**Photo 15: Section of AWAR awaiting construction on north side, waterline installation pending.**



**Photo 16: Suspended waterline to maintain waterflow in the area north side of road, view looking west.**



**Photo 17: Suspended waterline to maintain waterflow in the area on south side of AWAR, same location as previous photo.**



**Photo 18: One of several lift stations along AWAR to help send saline effluent to Itivia Harbour.**





**Photo 19: Caribou track crossing the waterlines by the lift station.**



**Photo 20: Caribou tracks between the waterlines by the lift station.**





**Photo 21: Raised waterline profile, waterline on south side of AWAR looking east.**

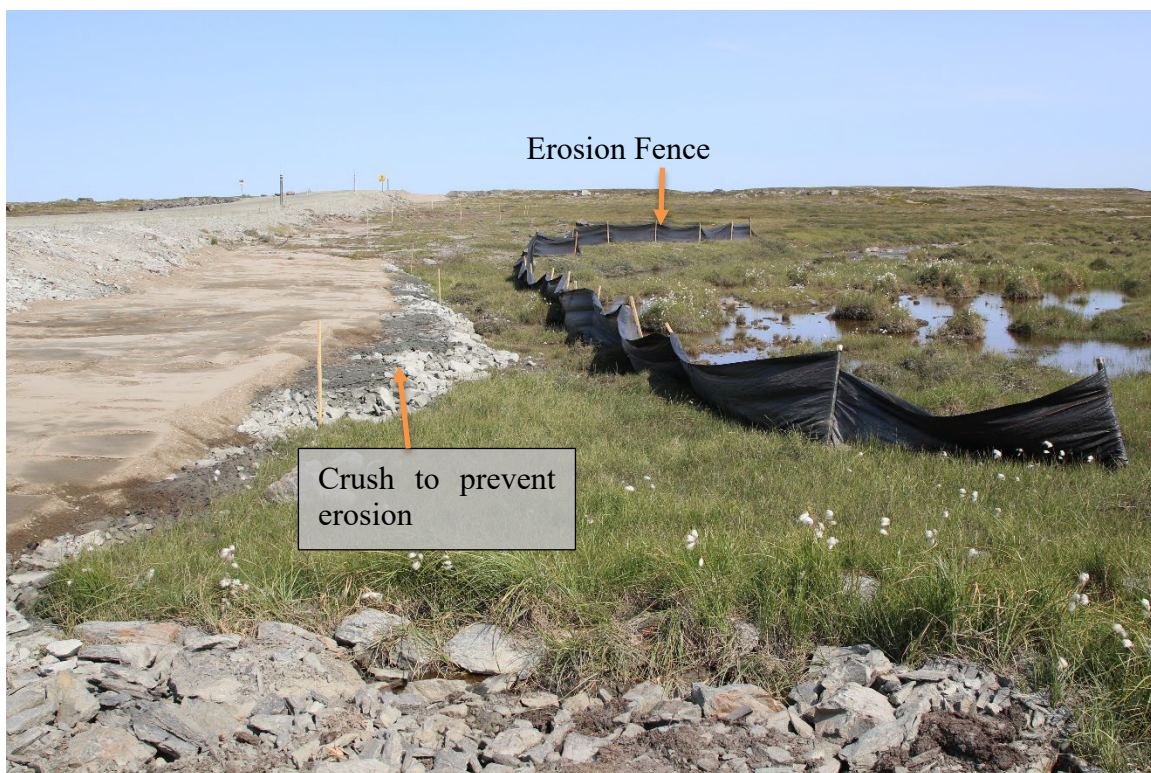


**Photo 22: Raised waterline profile, waterline on south side of AWAR with rills/natural settling looking east.**





**Photo 23: Installation of bedding for the waterlines, north side AWAR looking west.**



**Photo 24: Erosion mitigation during waterline installation, north side AWAR looking west.**





**Photo 25: Erosion Mitigation during waterline installation, north side AWAR looking west. Pam demonstrated how to collect Arctic cotton for Qillaq use.**



**Photo 26: Erosion mitigation north side of AWAR Culvert 14 looking west.**





**Photo 27: Example of bridge preparation for waterlines installation, south side looking west.**



**Photo 28: One of the Spill Response seacans located at each water crossing location.**



### 5.3.3 Meliadine Mine Site



**Photo 29: Overview of Mine Site top photo looking west and bottom looking east.**



**Photo 30: Portal 1 for Tiriganiaq Underground.**





**Photo 31: Tiriganiaq pit 1 – 2022**



**Photo 32: Tiriganiaq pit 1 – 2023**



**Photo 33: Tiriganiaq pit 1 – 2024**





**Photo 34: Tiriganiaq Pit 2 - used for saline effluent storage 2023**



**Photo 35: Tiriganiaq Pit 2 - used for saline effluent storage 2024**

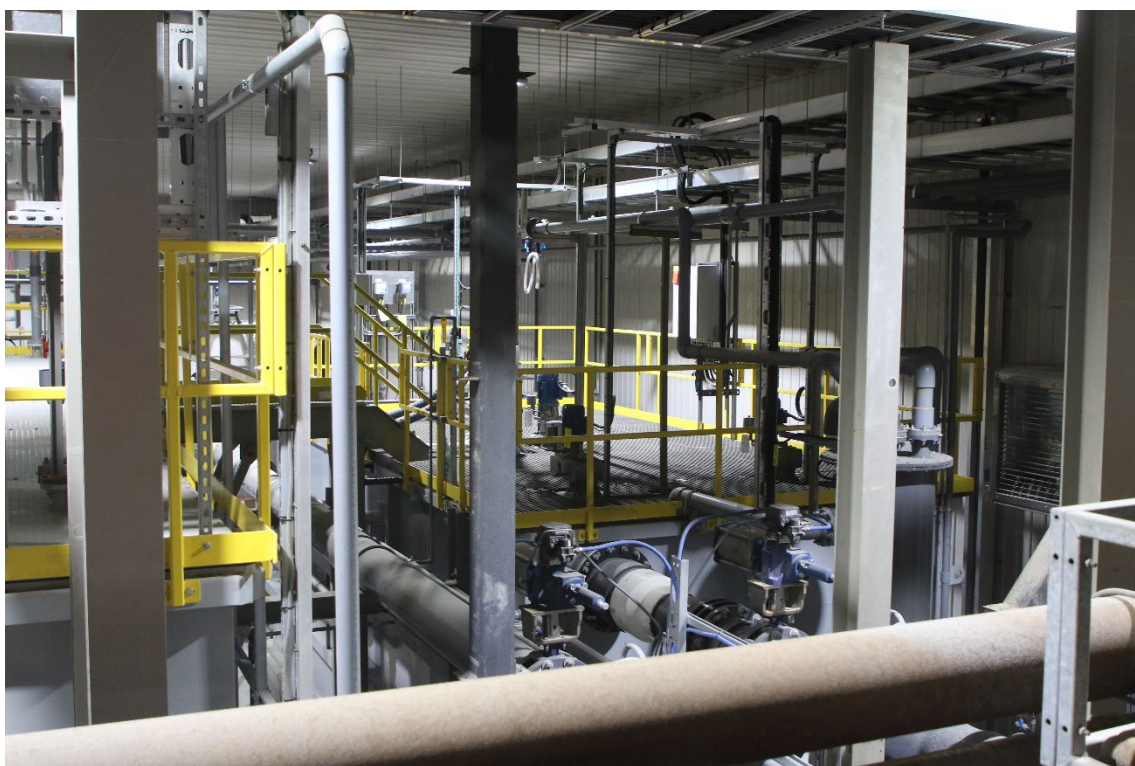


**Photo 36: Saline Pond 3 – not used for saline effluent discharge in 2024; however, it is used for site contact water transferred to CP1 for treatment before release.**





**Photo 37: Containment Pond 3 – one of six (6) containment ponds to collect site contact water.**



**Photo 38: Water Treatment Complex - contact water is treated to ensure licence parameters are met before discharge into Meliadine Lake.**





**Photo 39: Waste Rock Storage Facility 1 – one of two (2) waste rock storage facilities on site.**



**Photo 40: Landfill - checked to ensure no disposal of food waste.**





**Photo 41: Hazardous Material Storage Area.**



**Photo 42: New Incinerator.**



**Photo 43: Landfarm A.**

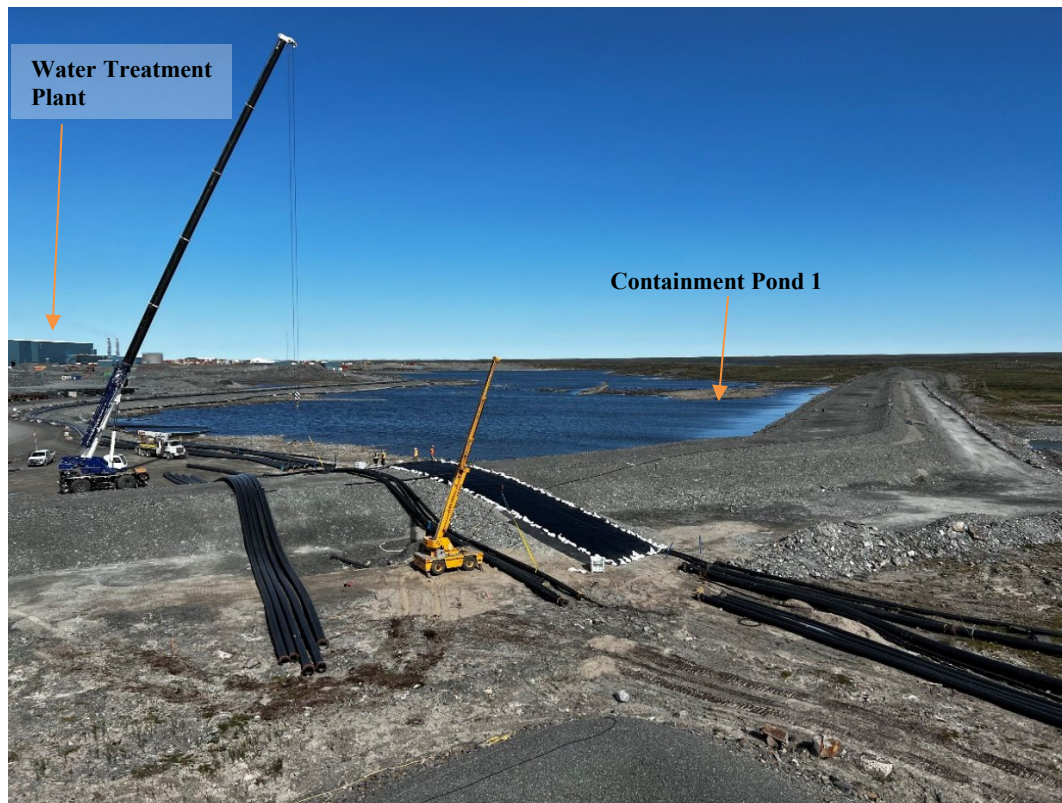


**Photo 44: Landfarm B.**





**Photo 45: On-site fuel storage in secondary containment.**



**Photo 46: Waterline crossing over the Containment Pond 1 Berm.**





**Photo 47: Exploration Camp. The exploration camp is not in use and has been cleaned up (2023 photos).**





**Photo 48: Bird house for a barn swallow moved from Paste Plant to Exploration Camp.**



**Photo 49: Treated water discharge into Meliadine Lake by former Exploration Camp.**



### 5.3.4 New Vent Raise



**Photo 50: New Vent Raise south of Tiriganiaq 1, looking southeast.**



**Photo 51: New Vent Raise south of Tiriganiaq 1, fuel area west of Vent Raise.**



### 5.3.5 New Pump Road



**Photo 52: Looking east to Pump Road from east side of Tiriganiaq 1.**



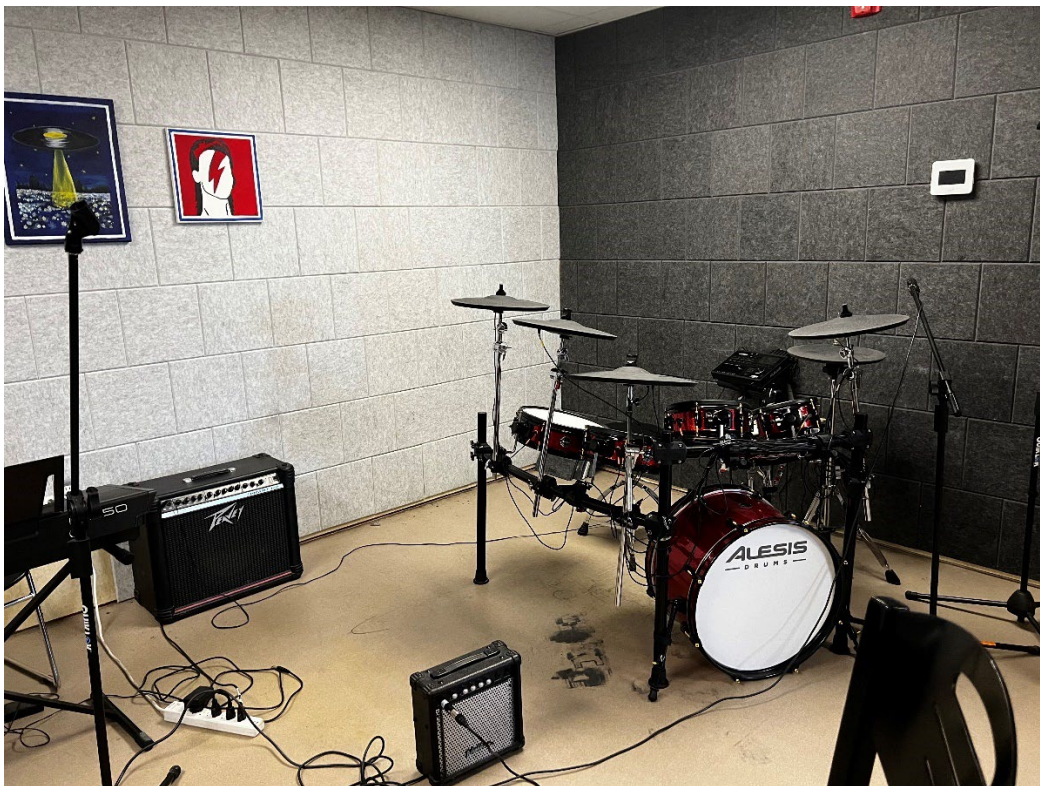
**Photo 53: Equipment on Pump Road moving material, looking east from Tiriganiaq 1.**



### 5.3.6 Camp facilities



**Photo 54: Games Room in Meliadine Camp.**



**Photo 55: Music Room in Meliadine Camp.**





**Photo 56: Newly Painted Country Food Kitchen, photo 1.**



**Photo 57: Newly Painted Country Food Kitchen, photo 2.**

## 6 CONCLUSION

Based on the observations made during this site visit, all Meliadine facilities continue to appear to be managed in accordance to the Terms and Conditions of the Project Certificate.

NIRB staff identified the following specific areas for improvement:

- As the waterline installation has progressed there were several locations and/or lengths along the AWAR where the waterlines are higher than the road. This was not identified as something that may occur during the assessment of the waterlines, and this may cause a hazard to equipment and wildlife that cross during the winter and spring months when the road and waterline infrastructure may become snow covered; and
- Sections of uncovered waterline have cement structures to assist with retaining the waterlines in place were not marked/identified on the tundra. This may be a hazard to anyone who is accessing the land for traditional activities during the winter and spring months. The AWAR was constructed with slopes to allow both humans and wildlife to cross the road with limited difficulty which is now changed with the steeper and higher slopes.

The observations made at the Site Visit and the comments heard in the Community Information Session will inform the overall compliance of Meliadine Gold Mine Project Certificate No. 006 and Board recommendations provided within the NIRB's *Meliadine Gold Mine 2023-2024 Monitoring Report*.

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