

***AANDC Inspection Report – March 20, 2015 and Follow-up***

WATER LICENCE INSPECTION FORM

☒ Original

☐ Follow-Up Report

Licensee	Licensee Representative
2BB-MEL1424	Alexandre Gauthier
Licence No. / Expiry	Representative's Title
July 21st, 2024	Environmental Technician
Land / Other Authorizations	Land / Other Authorizations
IOL	\
Date of Inspection	Inspector
March 20 <sup>th</sup> , 2015	WRO C. Wilson
Activities Inspected	
<input checked="" type="checkbox"/> Camp	<input type="checkbox"/> Drilling
<input checked="" type="checkbox"/> Roads/Hauling	<input type="checkbox"/> Mining
	<input type="checkbox"/> Construction
	<input type="checkbox"/> Reclamation
	<input type="checkbox"/> Fuel Storage
	<input type="checkbox"/> Other: Water Discharge
	<input type="checkbox"/> Other:

Conditions:	A - Acceptable		C - Concern		U - Unacceptable		NA – Not Applicable		NI – Not Inspected		
Water Use		Condi tion	Comment	Site Conditions		Condition	Comment	Haz/Mat Management		Condition	Comment
Intake/Screen		A	1	Water Management Structures		NI		Storage		--	
Flow Measure. Device		A	2	Culverts / Bridges		NI		Spills		NI	
Source: Meliadine Lake		NI	1	Drainage		NI		Spill Plan		NI	
Water Use: --		A	3	Erosion / Sediment		C	6				
Recirculation ( y /n)		Y	--	Mitigation Measures		NI		Administrative			
				Reclamation Activities		--		Records		A	3
				Materials Storage		C	6	Reports		--	
Waste Disposal				Signage		NI		Plans		--	
Waste Water		A	4,5					Notifications		--	
Solid Waste		--		Monitoring				Other			
Hazardous Waste		--		Sample Collection / Analysis		NI					
*The number in the comments field will correspond with specific comments provided below.											
Samples taken by Inspector:				Location(s): No samples collect due to freezing conditions							
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No											

SECTION 1	<input checked="" type="checkbox"/> Comments (s.__)	<input type="checkbox"/> Non-Compliance with Act or Licence (s.__)	<input type="checkbox"/> Action Required (s.__)
<p>Agnico Eagle Mines Limited (AEML)’s Meliadine Gold Project was issued a renewed water licence on July 22<sup>nd</sup>, 2014 by the Nunavut Water Board for the term of ten (10) years. The Project was supervised by AEML’s Exploration Division and is now under the care of AEML’s Operations Division.</p> <p>On March 20<sup>th</sup>, 2015 a regularly scheduled compliance inspection was completed by Aboriginal Affairs and Northern Development Canada’s Water Resource Officer (WRO), Christine Wilson, and Resource Management Officer (RMO), Atuat Shouldice. AEML’s Environmental Technician, Alexandre Gauthier accompanied WRO Wilson and RMO Shouldice during the inspection. The following was noted;</p> <p>Water Use</p> <ol style="list-style-type: none"><li>One water intake from Meliadine Lake is utilized for both domestic and industrial purposes located at 63° 01’ 46.8’’N, 92° 10’ 15.6’’W.</li><li>Three flow meters are maintained within the Meliadine camp’s fresh water treatment area; one meter measuring indirect water use (see photo 1), one measuring domestic water use (see photo 2) and one non-operating meter which measures the core shack water use (see photo 3).</li><li>Water is currently delivered to the mine site (portal and ramp support area) via a water truck—this water is used for domestic purposes in the offices and also industrial uses like mixing brine for the underground operation. All water is accounted for under the specified uses and recorded daily. A copy of the records for March 20<sup>th</sup>, 2015 was requested by the Inspector.</li></ol> <p>Waste Water</p> <ol style="list-style-type: none"><li>Waste water - black and grey water - is directed to the Waste Water Treatment Plant (WTP). The treated effluent is discharged via conveyance lines to 63° 01’ 43.0’’ N, 92° 10’ 09.9’’W into a dissipation canal and eventually Meliadine Lake.</li><li>The following are upgrades to the WTP for 2013/2014; water retention basin, 2<sup>nd</sup> UV disinfection lamp, 1:25 and 2:3 micron filter bags and an effluent dissipation canal. Planned upgrades include Ozomax (an ozone disinfection system) and sludge dehydration press. Proposed construction completion dates are not yet confirmed.</li><li>During the winter, waste rock is stockpiled at the top of the portal ramp from the underground operation. The Inspector discussed the importance of proper surface drainage and sediment and erosion control measure during freshet specifically around material storage and new construction.</li></ol>			
SECTION 2	<input type="checkbox"/> Comments (s.__)	<input checked="" type="checkbox"/> Non-Compliance with Act or Licence (s.2)	<input type="checkbox"/> Action Required (s.__)
No non-compliance with the Act or Licence was noted at the time of the inspection.			



SECTION 3

☐ Comments (s. 3)

☐ Non-Compliance with Act or Licence, (s. 3)

☒ Action Required (s.3)

- The Licensee will provide the Inspector with notice of the annual freshet. This notice will be provided upon observation of freshet to allow for a inspection of the road and Meliadine camp.
- The Inspector requests the Licensee to submit the March 19<sup>th</sup>, 2015 sample results for MEL-7 (Waste Water Treatment Plant effluent) upon receipt of the results.
- The Inspector requests the Licensee to submit the daily water (direct/indirect) use totals for domestic and industrial for March 20<sup>th</sup>, 2015.
- The Inspector requests a current map of the Meliadine Gold Project. This map should include the monitoring program stations and reflect the changes found under PART J item 1 of the 2BB-MEL1424 Licence.

Licensee or Representative	Inspector's Name
	WRO C Wilson
Signature	Signature
	Original signed on file
Date	Date
	March 20 <sup>th</sup> , 2015

Office Use Only:

Follow-up report to be issued by Inspector

☐ Yes ☒ No

Attached: 2BB-MEL1425 Photo Log, March 20<sup>th</sup>, 2015

cc.

Erik Allain, Manager Field Operations, AANDC  
David Frenette, Environmental Coordinator, AEML



PHOTO LOG

Date:	Authorization Number:	Camera/Model:	Inspector
March 20 <sup>th</sup> , 2015	2BB-MEL1424	Sony DSC-HX50V Cyber shot	WRO Wilson
Locations name:		Lat/Long (DD.MM.SS.SS, NAD83)	
Photo 1		Freshwater Treatment Area, Meliadine Camp	



**Description:**  
Top picture # 1565: Indirect water use meter, location in the fresh water treatment room.  
Bottom picture # 1566: Flow meter reading.





Locations name:

Photo 2

Lat/Long (DD.MM.SS.SS, NAD83)

Freshwater Treatment Area, Meliadine Camp



Descirption:

Top picture #1567: Direct water use flow meter location  
Bottom picture #1570: Flow meter reading



Locations name:	Lat/Long (DD.MM.SS.SS, NAD83)
Photo 3	Fresh Water Treatment Area, Meliadine Camp



Description:
Top Picture #1568: Core shack water usage flow meter location
Bottom Picture#1569: (not operating) meter reading