



WATER LICENCE INSPECTION FORM

☒ Original  
☐ Follow-Up Report

Licensee	Licensee Representative
2AM-MEL1631	Alexandre Gauthier, Justin MacMillan
Licence No. / Expiry	Representative's Title
July 21st, 2024	AEM Environment
Land / Other Authorizations	Land / Other Authorizations
IOL	2BW-MEL1524, 2BB-MEL1424
Date of Inspection	Inspector
May 25 <sup>th</sup> , 2016	WRO C. Wilson
Activities Inspected	
<input type="checkbox"/> Camp	<input type="checkbox"/> Drilling
<input checked="" type="checkbox"/> Roads/Hauling	<input type="checkbox"/> Mining
	<input checked="" type="checkbox"/> Construction
	<input checked="" type="checkbox"/> Other: Water Discharge
	<input checked="" type="checkbox"/> Other: Culverts
	<input type="checkbox"/> Reclamation
	<input type="checkbox"/> Fuel Storage

SECTION 1	<input checked="" type="checkbox"/> Comments (s. 1)	<input type="checkbox"/> Non-Compliance with Act or Licence (s. 2)	<input type="checkbox"/> Action Required (s. 3)
<p>On May 25<sup>th</sup>, 2016 Indigenous and Northern Affairs' Water Resource Officer, Christine WILSON completed an inspection of Agnico Eagle Gold Mines Ltd.'s Meliadine Gold Project water licence no. 2AM-MEL1631. The inspection was completed with the assistance of Alexandre GAUTHIER and Justin MACMILLIAN with the environmental department.</p> <p><u>Observations</u></p> <ol style="list-style-type: none"><li>Lake J1 has some sediment built up on the surface of the ice and along the edge of the lake (photo 1). AEM has developed a snow management procedure for 2017 to better manage the movement of snow/sediment. AEM plans to deploy silt curtains on the outlet of J1 to Meliadine Lake in accordance with part E item 9.</li><li>Daily inspections of all water management structures during freshet are recorded and available upon request, pursuant to part E item 15.</li><li>DP3-A, the dyke closest to A54 Lake (figure 1) is complete (photo 2), including the installation of three thermistors. To date, AEM has collected three separate readings from the units establishing that the core is frozen.</li><li>AEM is in the process of recovering material that was left over during the construction of DP3-A (photo 3); the material is being moved to a location with no risk of entering water (photo 4).</li><li>The surface sump will no longer be used. As of May 1<sup>st</sup>, the water collected at Sump LV50 (bottom of the portal ramp) will be pumped directly to P2 (photo 5 and figure 1).</li><li>AEM is in the process of installing a permanent pumping system between P1, P2 and P3 (photo 6).</li></ol> <p><b>8BC-MEL1516</b></p> <ol style="list-style-type: none"><li>Culvert 2 -located at N63° 2' 1.82", W92° 13' 19.75"- was installed in fall 2015.</li><li>A conduit for electrical wire was dug in late fall 2015 from the portal area to the mine site, the trench has not been back filled due to an accumulation of snow and ice. During the inspection concern was noted where the trench follows along the east side of H13 Lake and the mine site access road (photo 7). The trench and the materials removed from it were diverting surface water, directing it towards H13 Lake. H13 Lake drains through culvert no. 2 into H12 Lake. AEM had installed silt fences on either sides of the culvert no. 2 and used gravel to mount the fence securely as there is a large volume of water in the area between the trench and the road (photo 8). The water is turbid and light brown in colour. The inspector was not able to confirm the high water mark of H13 Lake but was concerned that the snow/materials and gravel may be placed in or on the surface of the Lake (photo 9). AEM committed to taking immediate actions; removing and securing the materials in an appropriate location, confirming the location of H13 Lake high water mark, and pumping the water from the trench to P2.</li><li>A silt fence is installed at the outlet of culvert no. 2 (photo 10).</li><li>The construction summary for culvert no. 2 was not available for review on the Nunavut Water Boards' FTP site pursuant to part E item 4 of the 8BC-MEL1516 Licence.</li></ol>			
SECTION 2	<input type="checkbox"/> Comments (s. 1)	<input checked="" type="checkbox"/> Non-Compliance with Act or Licence (s. 2)	<input type="checkbox"/> Action Required (s. 3)
<p>— The Licensee is reminded that pursuant to part E item 6, deposit of sediment into <u>any water body</u> is prohibited. Materials are to be located at a minimum of thirty one (31) meters from the ordinary high water mark. <b>"High water mark"</b> as defined by the licence, means the usual or average level to which a body of water rises at its highest point and remains for sufficient time so as to change the characteristics of the land (ref. Department of Fisheries and Ocean, Operational Statement: Mineral Exploration Activities);</p> <p>— The Licensee is reminded, pursuant to part E item 12, activities shall be conducted in such a way to minimize impacts on surface drainage and the licensee shall immediately undertake any corrective measures in the event that surface drainage is impacted.</p>			
SECTION 3	<input type="checkbox"/> Comments (s. 1)	<input type="checkbox"/> Non-Compliance with Act or Licence, (s. 2)	<input checked="" type="checkbox"/> Action Required (s. 3)
<ul style="list-style-type: none"><li>AEM will provide the data and analysis of the DP3-A thermistors to the inspector before June 15<sup>th</sup>, 2016.</li><li>AEM shall sample Culvert no. 2 outlet to H12 in accordance with PART E item 9 of Water Licence no. 8BC-MEL1516. The data and analysis will be provided to the inspector in the monthly monitoring report for the Meliadine Project starting in May 2016.</li><li>AEM will remove snow/material from the shore and surface of H13, A54 and J1. Upon completion, AEM environmental department will prepare a report with pictures to be submitted to the inspector before June 6<sup>th</sup>. 2016.</li></ul>			



Licensee or Representative	Inspector's Name
	WRO C Wilson
Signature	Signature
	Original signed on file
Date	Date
	May 30 <sup>th</sup> , 2016

Office Use Only:	Follow-up report to be issued by Inspector	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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cc.

Erik Allain, Manager Field Operations, AANDC  
Jeff Pratt, Environmental Coordinator, AEML  
Jamie Quesnel, Environmental Superintendent. AEML

Attached:

Photo Log, May 25th, 2016  
Figure 1- P1 Containment Are Survey 20160329 Frozen Core Option Model- For Annual Report-1.pdf



PHOTO LOG

Date:	Authorization Number:	Camera/Model:	Inspector
May 27th, 2016	2AM-MEL1631	Sony DSC-HX50V Cyber shot	WRO Wilson
Photo No.	Lat/Long (DD.MM.SS.SS, NAD83)		
Photo 1	N 63° 01' 34.6", W 92° 10' 27.3"		



Description:  
Looking south: Lake J1

Locations name:	Lat/Long (DD.MM.SS.SS, NAD83)
Photo 2	N63° 1' 40.29", W 92° 12' 27.73"



Description  
Facing South West: P3 containment area





Locations name:  
Photo 3

Lat/Long (DD.MM.SS.SS, NAD83)  
N63° 1' 40.31", W 92° 12' 27.8"



Description

Looking South: Waste material/snow removal from the construction of DP3-A

Locations name:  
Photo 4

Lat/Long (DD.MM.SS.SS, NAD83)  
N63° 1' 42.47", W 92° 12' 26.56"



Description

Facing East: Waste material/snow recovered from the construction of DP3-A awaiting removal.





Locations name:		Lat/Long (DD.MM.SS.SS, NAD83)
Photo 5		N63° 1' 38.96", W 92° 12' 40.15"
		
<b>Description</b> Facing West: DP2-A dyke and P2 containment Area		

Locations name:		Lat/Long (DD.MM.SS.SS, NAD83)
Photo 6		N63° 1' 39.91", W 92° 12' 54.40"
		
<b>Description</b> Facing North East: DP1-A which separates P1 and P2; permanent pumping system		





<b>Locations name:</b>		<b>Lat/Long (DD.MM.SS.SS, NAD83)</b>
Photo 7		N63° 2' 1.85", W 92° 13' 19.78"

**Description**  
Facing South West: Water accumulation from trench at culvert no. 2

<b>Locations name:</b>		<b>Lat/Long (DD.MM.SS.SS, NAD83)</b>
Photo 8		N63° 2' 1.82", W 92° 13' 19.75"

**Description**  
Facing North North West: Materials piled near H13; gravel at culvert no. 2 (H13 outlet)





Locations name:  
Photo 9

Lat/Long (DD.MM.SS.SS, NAD83)  
N63° 2' 1.95", W 92° 13' 19.39"



Description  
Facing West: Gravel at culvert no. 2 ( culvert no.2 is slightly out of frame located at the bottom left corner of picture)

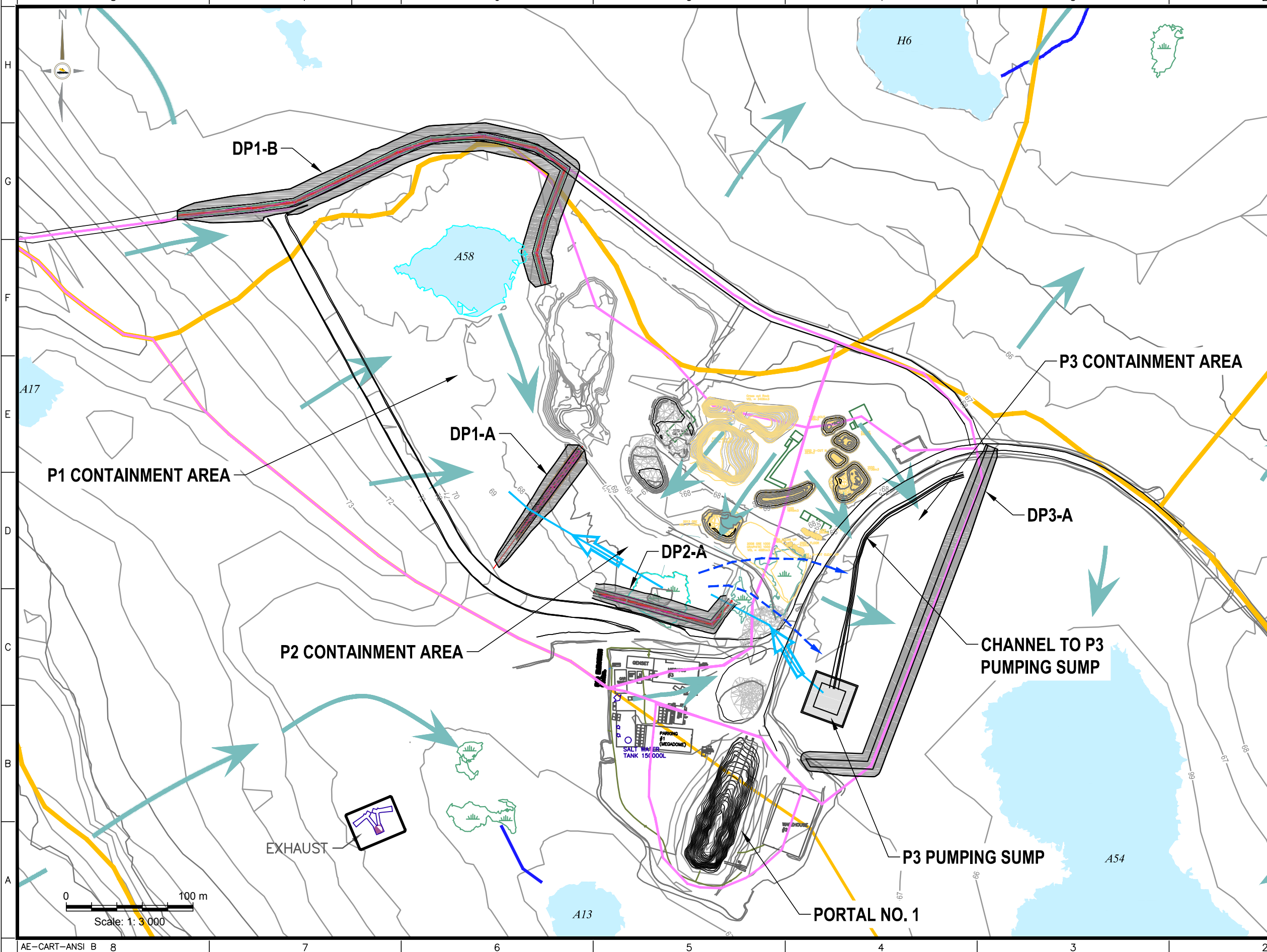
Locations name:  
Photo 10

Lat/Long (DD.MM.SS.SS, NAD83)  
N63° 2' 1.12", W 92° 13' 18.41"










Description  
Facing North East: Culvert no. 2 outlet to H12 Lake; silt fence at H12 Lake





## LEGEND

- LEGEND**
-  CATCHMENT BOUNDARY (ORIGINAL GROUND)
  -  CATCHMENT BOUNDARY (EXISTING GROUND)
  -  WATERBODY
  -  SURFACE WATER FLOW DIRECTION
  -  STREAM
  -  PUMP AND PIPELINE FOR WATER MANAGEMENT
  -  POTENTIAL SEEPAGE ROUTES THAT MAY REQUIRE DOWNSTREAM WATER MANAGEMENT

NOTE: ADDITIONAL SEEPAGE COLLECTION SUMPS, PUMPS AND PIPELINES WILL BE INSTALLED AS NECESSARY TO COLLECT AND MANAGE SEEPAGE CIRCUMVENTING THE TEMPORARY FROZEN CORE DIKE STRUCTURES DURING FRESHET 2016.



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TITRE / TITLE		# DWG

DESSINS EN RÉFÉRENCE/REFERENCE DRAWINGS

	FOR DISCUSSION ONLY	2016-03-28	
REV	DESCRIPTION	DATE	PAR RY

## REVISIONS

DESSINÉ PAR DRAWN BY	EP	DATE	2016-03-21
VÉRIFIÉ PAR CHECKED BY	NG		2016-03-21
APPROUVÉ PAR APPROVED BY			

No. PROJET  
PROJECT NO

PROJECT NO.	
DATE	

DATE
TITRE / TITL

AGNICO EAGLE MELIADINE GOLD PROJECT

CONCEPTUAL LAYOUT PLAN OF P1 WATER MANAGEMENT  
INFRASTRUCTURE FOR FRESHET 2016

ÉCHELLE/ SCALE		FICHIER FILE	
No. DESSIN/ DRAWING NO.		REVISION  00	FEUILLE/SHT  1 / 2