

## WATER LICENCE INSPECTION FORM

$\boxtimes$	Original	
	Follow-Up	Report

	Licensee Licensee Representative							
Agncio Eagle Mir	ies Lim	ited	Kevin			RATT		
Licence No. / Expiry			Representa			tal Division.		
2AM-MEA0815						tal Division;	.	
Land / Other Antherinsting			A/SUP Land / Oth			Environmenta	ai Co-ordir	iator
Land / Other Authorizations 66A/8-71-2			66A/8		zations			
Date of Inspection			Inspector	-/2-2				
22/03/15-24/03/	<b>′</b> 15		WRO V	Wilson	1			
Activities Inspected								
☐ Camp ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	Drilling	/ater Discha		nstruction her:		Reclamation	☐ Fuel Stora	ge
Z Rodus/Hadiling L	_ Other. W	ater Dische	argeOu	ici.				
	cceptable	•	C - Concern U - Unaccep	table	NA –	Not Applicable	NI – Not In	spected
Water Use	Condition	Comment	Site Conditions	Condition	Comment	Haz/Mat Manage	ement Condition	n Comment
Intake/Screen	NI		Water Management Structures	Α		Storage	NI	
Flow Measure. Device	Α	1	Culverts / Bridges	NI		Spills	NI	4
Source: Third Portage	Α		Drainage	NI		Spill Plan	Α	
Water Use:	Α	1	Erosion / Sediment	NI				
3599m3/march 22								
Recirculation ( y /n)	NI		Mitigation Measures	Α		Administrative		_
			Reclamation Activities	A	2	Records	A	5
Wasta Bismassi			Materials Storage	Α		Reports	A	6
Waste Disposal			Signage	Α	3	Plans	C	7
Waste Water	A		Monitoring			Notifications	A	
Solid Waste Hazardous Waste	NI		Monitoring Sample Collection / Analysis	Α	8	Other		
Hazardous waste	INI		Sample Collection / Alialysis	A	0			
*7	he numbe	r in the a	comments field will correspond v	 with snec	ific comr	 nents nrovided helo	014/	
Samples taken by Inspe		zi ili tire t	Location(s): No samples were					
	Ctor.		Location(s). No samples were	takenu	ue to free	ezing site conditions	5	
Yes No								
SECTION 1	Comme	nts/s 1	) Non-Compliance w	ith Act o	r Licence	\((s \) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	tion Required	(c )
	7 comme	::: <b>::</b> (31	_) Non-compnance w	itii Act o	i Licerice	(S)	tion Required	(3)
<u>Background</u>								
The Meadowbank Gold Project's water licence, 2AM-MEA0815 expires on May 31 <sup>st</sup> , 2015. On July 23rd 2014, the Proponent submitted a renewal application for the type 'A' licence. To minimize the risk of operating without a valid Licence, Agnico Eagle Gold								
			ors of the Meadowbank Gold Pr					
-		-	9(1)(b) for the maximum term	-	-			
_	changes v	vill be ma	ade to the existing licence. At th	e time of	f the insp	ection this STR had	not yet been a	approved
by the Minister.								
SECTION 2 Comments (s2_) Non-Compliance with Act or Licence (s) Action Required (s)								
1. The Proponent	provided	d the curi	rent daily water use totals to the	e inspect	or for Ma	arch 22, 2015. That	document has	been
attached to this report (appendix 1). The inspector was advised that fresh water was being trucked to the emulsion plant								
and those amounts are considered in the overall table provided.								
2. As identified in the Interim Closure and Reclamation Plan (January 7 <sup>th</sup> , 2014), the proponent continues to progressively								
reclaim the Waste Rock Storage Facility with the 4 m of non potential acid generating materials (N-PAG) as well as								
stockpiling the N-PAG materials near pits Bay Goose and Portage for future closure activities. At the time of the inspection,								
the Portage Central Dump had been brought up to an elevation approximately 7m below East Dyke elevation.								
3. All monitoring stations inspected were found to be fitted with signage.  4. Due to freezing conditions, the spill titled "Assay Road spill # 13-379" was not inspected. The inspector was provided								
4. Due to freezing conditions, the spill titled "Assay Road spill # 13-379" was not inspected. The inspector was provided detailed summary of activities and a final engineering report titled "Meadowbank Assay Seepage Report- Phase 2.REV 2",								
which discussed the spill and AEM actions to date.								
	which discussed the spill and AEM actions to date.  To following is a summary of the information provided;							
_	•		system has been constructed to	catch see	epage wa	ter.		
						as		
	leted in 2		<b>9 </b>			-	-,	
The spill will incorporated into the freshet action plan 2014.								
The amount of contaminated water has drastically reduced since the initial spill.								
• As bu	ilt drawin	g for the	interception trench was receive	ed by the	Inspecto	or.		
As built drawing for the interception trench was received by the Inspector.								





- Records requested by the Inspector were provided promptly during the inspection.
- 6. The January and February 2015 monthly reports, as required by PART I item 25, have been received by the Inspector.
- During the 2014 implementation of the Freshet Action Plan v 1(April 2014), AEML identified the need for an additional sump to act as a settling pond on the North West arm of the Non-contact Water Diversion Ditch system. This sump is located near Saddle Dam 1. At the time of the inspection a construction summary for this sump had not been provided to
- Pursuant to PART I item 7 a review was completed by the Inspector of the monitoring locations provided in Schedule I, Table 2 of 2AM-MEA0815. This review was to identify the monitoring stations currently utilized at Meadowbank site as changes have occurred over the life of the mine to date. The review identified the following findings;
  - The monitoring program states the current stage of Meadowbank's operation (e.g.: Early operation, late operation) to associate which monitoring group (found under schedule I) applies to that monitoring station. The Inspector requests AEML to provide the current operational stage of the Portage, Goose and Vault areas separately; this will assist the Inspector and AEML Environment Division during upcoming Inspections until the new license is issued. The Inspector understands that AEML has proposed changes to Schedule I in their renewal application.
  - In most cases, AEML has been sampling for more than required in the water licence. A list of all current monitoring stations and their co-ordinates has been provided to the Inspector and attached to this report (appendix 2).
  - ST-18: Portage Attenuation Pond is no longer a valid sampling location. In late 2014 AEML started tailings deposition into the South Cell of the tailings facility, which was once the Portage Attenuation Pond. Water will no longer be discharged from the Third Portage Lake Diffuser.
  - ST-9: Effluent to Third Portage Lake via the diffuser is no longer valid.
  - ST-21: Tailing Reclaim Pond will be in the south cell of the tailings facility. Once the final deposit in the North Cell occurs (approximately November 2015), the water in the north cell will be pumped down to the South Cell of the tailings facility.
  - ST-24: Vault Waste Rock Storage Facility is active; the station is labelled as late operation.
  - ST-7: Vault Area Diversion Ditches and ST-15, Non- Contact water Diversion Ditches, have not yet been constructed and therefore remain inactive.
  - ST-2 and ST-3 are stations for measuring volume of reclaimed water.

## **Additional Notes**

-At the time of inspection tailings deposition was into the South C	Cell of the Tailings Facility. From approximately June to No	vember,
tailing will be deposited into the North Cell.		

talling will be depos	ited into the North Cell.		
-Capping of the Nor	th Cell of the Tailing Facility is	s expected to start this year.	
- Upcoming constru	ction is planned for, Saddle D	oam 3, 4 and 5, which will surround the south cell o	of the Tailings Facility,
The Water Treatme	ent Plant (near ST-9) will be d	ismantled this year in order for the construction o	f Saddle Dam 3 to commence.
SECTION 3	Comments (s)	Non-Compliance with Act or Licence, (s)	Action Required (s3_)
	ee shall take note constructio o PART D item 26:	on summary for the North West contact water colle	ection system sump is required
to contain, withh	· · · · · · · · · · · · · · · · · · ·	y report to the Board within ninety (90) days following c astes. The construction Summary Report shall be prepar	, ,
•		f the revised Freshet Action Plan for 2015. In addit reshet so that an inspection may be scheduled	ion to this Plan, the Inspector
Resolved Outstandir	ng Concerns		
	struction materials, which we	ere used in the construction of the runway extensions of the runway extensions of the runway extensions.	on were noted adjacent to Third

Licensee or Representative	Inspector's Name
	C. WILSON
Signature	Signature
	Origin Signed on File
Date	Date
	March 31 <sup>st</sup> , 2015

Office Use Only:	Follow-up report to be issued by Inspector	☐ Yes   No

## Appendices:

Appendix 1- Freshwater consumption table for March 2015 Appendix 2- Monitoring Stations description with GPS



Append 1: March Water Comsumption rev2

Daily Flows					
Day	Fresh water - new	Reclaim Water			
	m3/day	m3/day			
1	3514	4			
2	7737	8			
3	6909	1653			
4	3597	6279			
5	3611	5670			
6	3604	4980			
7	3609	5886			
8	3603	5392			
9	3597	5719			
10	3593	5554			
11	3605	5453			
12	3603	5677			
13	5752	2741			
14	3425	5515			
15	3606	5485			
16	3602	5930			
17	3593	5706			
18	3597	6225			
19	3614	6446			
20	3599	6113			
21	3607	6092			
22	3599	5689			
23					
24					
25					
26					
27					
28					
29					
30					
31					
Total m3	88578	108216			

1921 m3

Table 8.1: 2013 GPS Coordinates of Meadowbank Mine Site Sampling Location

Sample Location Description	Sample ID	GPS Coordinates Easting / Northing	<u> </u>	
MMER and EEM		Lucturg / Northing	<del></del>	
Portage Attenuation Pond effluent water quality monitoring and toxicity testing	ST-9/ ST-MMER-1	14W 0637593 7215174		
Vault effluent water quality monitoring and toxicity testing	ST-10/ ST-MMER-2	15W 0359842 7219555		
East Dike effluent water quality monitoring and toxicity testing	ST-8/ ST-MMER-3	14W 0639336 7213920		
Portage Attenuation Pond water quality monitoring in receiving environment - discharge area	TPN	14W 0636531 7214581		
Vault water quality monitoring in receiving environment - discharge area	WLE	15W 0360880 7220513		
East Dike water quality monitoring in receiving environment - discharge area	SPLE	14W 0639459 7213913		
Water quality monitoring in receiving environment - reference area	TPS	14W 0633840 7208079		
Sewage Treatment Plant				
STP discharge to stormwater management pond	STP	14W 0638042 7214140		
Incinerator	Incinerator	14W 0638189 7213412		
ash sampling; waste oil sampling				
Meadowbank Bulk Fuel Storage Facilities				
water quality monitoring of discharge from secondary containment area	MB-Fuel	14W 0638258 7213430		
Tailings Reclaim Pond				
water quality monitoring in North Cell	ST-21	14W 0637608 7215745		
water quality monitoring in South Cell	ST-21	14W 0638166 7215045		
Vault Attenuation Pond	ST-25	15W 359030 7219607	N 65°04'12.2" W 95°59'53.2"	14 W 641145.5 7219616
Vault Pit Sump	OT 00	4 414/ 00 40005 7000400		
water quality monitoring from area of water accumulation	ST-23	14W 0640865 7220103		
North Portage Pit Sump				
water quality monitoring from area of water accumulation	ST-17	14W 0638951 7214783		
South Portage Pit Sump				
water quality monitoring from area of water accumulation	ST-19	14W 0638898 7213939		
Bay Goose Pit Sump				
water quality monitoring from area of water accumulation	ST-20	14W 0638339 7212681		
Ford Pills Comment				
East Dike Seepage water quality monitoring of seepage from East Dike	ST-S-1	14W 0639316 7213937		
Attenuation Pond				
water quality monitoring	ST-18	14W 0638335 7214719		
Waste Rock Storage Facility				
water quality monitoring of seepage from Waste Rock Storage Facility	ST-16	14W 0638617 7216164		
Vault	ST-24	14W 640919 7220711		
Saddle Dam 1 Seepage				
water quality monitoring of seepage from Saddle Dam 1	ST-S-2	14W 0636977 7216000		
Central Dike Seep  Landfarm	ST-S-5	14W 0638743.822 7214571.07	"3	

Sample Location Description	Sample ID	GPS Coordinates Easting / Northing	
discharge to the land from landfarm sump	ST-14	14W 0637537 7215195	
Diversion Ditch Non-Contact Water			
Portage Area (West) diversion ditch (North Cell Diversion Ditch)	ST-6	14W 0636771 7216026	
Portage area (East) diversion ditch around WSF	ST-5	14W 0638732 7216495	
Portage RSF Seepage			
Monitoring in NP-2 Lake	NP-2 South	14W 638676 7216229	
Monitoring in NP-2 Lake	NP-2 West	14W 638716 7216490	
Monitoring in NP-2 Lake	NP-2 East	14W 638995 7216210	
Monitoring in NP-2 Lake	NP-2 Winter	14W 638704 7216279	
Monitoring in NP-1 Lake	NP-1 West	14W 639298 7216165	
Monitoring in Dogleg	Dogleg-North	14W 639518 7215861	
Monitoring in Second Portage Lake*	SPL-RSF Seep	14W 639618 7214713	
Assay Road Seepage			
Monitoring in Third Portage Lake	TPL-Assay	14W 637751 7213743	
Monitoring in containment structure	Assay road seep North	14W 637908 7213850	
Monitoring in containment structure	Assay-road seep South	14W 637919 7213832	
Freshet Action Plan			
waste rock pool	WRP	14W 0638630 7216552	
waste extension pool	WEP	14W 0638335 7216860	
North East diversion ditch	NED	14W 0638335 7216909	
west diversion sump	WDS	14W 637235 7216172	
Freshwater Intake Baker Lake		14w 0644194 7135607	
*Station not yet in place -> approximately location			
Groundwater			
MW-08-03	Well	14W 639282 7214483	
MW-08-02	Well	14W 639185 7213901	
ST-GW-2s (Pit B)	Drill hole	14W 638985 7214660	
ST-GW-1s	Drill hole	14W 638759 7212359	
MW-03-03	Well	14W 639085.8205 7214383.2539	
MW-11-02	Well	14W 638125 7214802	
MW-03-04	Well	14W 638204.9704 7214511.6504	
MW-06-07	Well	14W 638239.1019 7214471.3737	
MW-11-01	Well	14W 638893 7212488	
MW-03-01	Well	14W 6387620.0390 7212207.0070	
MW-03-02	Well	14W 638754.1989 7212162.16	
MW-06-05	Well	14W 638808.6307 7212219.7991	
MW-06-06	Well	14W 638797.0414 7212156.3928	
ST-GW-14-01 / MW-14-01	Well	14W 638750 7214445.61	
31-3W-14-01 / MW-14-01	vveii	1400 030730 7214443.01	
	vveii Drill hole	14W 638704 7212252	
ST-GW-4			

Sample Location Description	Sample ID	GPS Coordinates Easting / Northing
DW-RAW-KIA		14W 637709 7213977