



GeoVector Management Inc.

10 Green Street, Ottawa, ON, K2J 3Z6

Ph: 613-843-8109

Fax: 613-843-8110

Email: as.geovector@bellnet.ca

APPENDIX 3

**GEOVECTOR TECHNICAL MEMORANDUM for the MEADOWBANK
TYPE A WATER LICENSE (NWB 2AM MEA0815) RENEWAL**

Date: September 29, 2014

Recipient: Luis Manzo, Director of Lands, Kivalliq Inuit Association (KIA)

From: Alan Sexton, geoVector Management Inc. (GeoVector)

Re: Technical Review of the Meadowbank Gold Mine Type A Water License
(NWM 2AM MEA0815) Renewal

The Kivalliq Inuit Association (KIA) requested a review of Agnico Eagle Mine's (AEM) Meadowbank Mine Type A Water License – 2AM-MEA0815 (issued June 9, 2008 by the Nunavut Water Board) Renewal application by GeoVector Management Inc. (GeoVector). The original license (NWB 2AM MEA0815) was issued on June 9th, 2008 and expires May 31st 2015. AEM has proposed a 10 year license renewal; the expiration date proposed for the renewal is June 1, 2025 and is expected to take the mine into the closure and reclamation plan.

The technical review was broken down into the following broad tasks:

1. Review the Main Supporting Document and Water License

The conditions in the existing water license and AEM's proposed changes were compared. This allowed the areas of potential concern to be highlighted. This also provided a reference for the assessment of mine activities covered under the existing license and provided the basis for the conditions which AEM were required to meet over the last seven years.

2. Review approved plans

This phase of the review assessed the plans approved by the NWB to ensure that these plans will prevent adverse changes to the environment. Particular attention was paid to plans addressing issues highlighted through the review of the Spill Contingency Plan (Appendix B9), Interim Closure and Reclamation Plan (Appendix B14), Dewatering Dike: Operation, Maintenance and Surveillance Manual (Appendix B19), Tailings Storage Facility: Operation, Maintenance and Surveillance Manual (Appendix B20) and mine Waste rock and tailings management plan (Appendix 21).

3. Recommendations

Throughout the review changes via technical comments were recommended to the plans, monitoring programs and Water License to address issues highlighted by the GeoVector review in order to ensure adequate protection of the environment.



1.0 Main Supporting Document and Water License

1.1 Review of Water License

Comment Source:	Kivalliq Inuit Association
Comment Number:	KIA- 28
Project:	Meadowbank Project Water License Renewal
Comment From:	Kivalliq Inuit Association
Comment For:	Agnico Eagle
Reviewer:	Alan Sexton, GeoVector
Subject:	Altered License Condition
References:	Water License, Part H, item 3.
Issue / Concern and Rationale:	AEM has proposed to remove Part H, item 3 of the water license renewal application as they feel it is covered off by Part D, item 29. In item 29 the word “fuel” is used while in item 3 the words ‘petroleum products’ are used. The words “petroleum products” are preferred as they are more inclusive (ie. hydraulic fluid, motor oil, etc.) than the word “fuel”.
Technical Comment:	The KIA requests that words “petroleum products” be included along with the word “fuel” in Part D, item 29.

Comment Source:	Kivalliq Inuit Association
Comment Number:	KIA- 29
Project:	Meadowbank Project Water License Renewal
Comment From:	Kivalliq Inuit Association
Comment For:	Agnico Eagle
Reviewer:	Alan Sexton, GeoVector
Subject:	Alter License Condition
References:	Water License, Part J, item 6.
Issue / Concern and Rationale:	AEM has proposed to add the words “if possible” to Part J, item 6. A significant effort should be put into re-vegetation of the tailings.
Technical Comment:	The KIA requests that words “if possible” be removed as a significant effort should be put into re-vegetation of the tailings.



2.0 Review of Management Reports and Plans

2.1 APPENDIX B10 - OPERATIONAL ARD/ML TESTING AND SAMPLING PLAN, VERSION 2 (NOV. 2013)

Comment Source:	Kivalliq Inuit Association
Comment Number:	KIA- 30
Project:	Meadowbank Project Water License Renewal
Comment From:	Kivalliq Inuit Association
Comment For:	Agnico Eagle
Reviewer:	Alan Sexton, GeoVector
Subject:	RSF Design
References:	Appendix B10, section 2.3, page 4
Issue / Concern and Rationale:	AEM has indicated that the Vault RSF is not expected to require capping, as the bulk of the material from this deposit is expected to be NPAG (Golder, 2005a).
Technical Comment:	The KIA requests that AEM report on and monitor the amount of PAG versus NPAG material in the Vault RSF in order to ensure that, if required, the RSF is capped with an appropriate amount of material to ensure that freezeback of the RSF occurs upon closure.

2.2 APPENDIX B14 – INTERIM CLOSURE AND RECLATION PLAN, VERSION 2 (JAN. 2013)

Comment Source:	Kivalliq Inuit Association
Comment Number:	KIA-31
Project:	Meadowbank Project Water License Renewal
Comment From:	Kivalliq Inuit Association
Comment For:	Agnico Eagle
Reviewer:	Alan Sexton, GeoVector
Subject:	Waste Rock Storage Facilities
References:	Appendix B14, section 3.3.6.3, page 61
Issue / Concern and Rationale:	AEM has indicated that runoff water quality and water volume from the Portage and Vault Waste Rock Storage Facilities will be monitored throughout the mine life, including operations, closure and post-closure. Given that the height and crest elevation of these facilities is 13% to 17% higher than the surrounding topography will fugitive dust emissions also be monitored, in particular, during closure and post-closure.
Technical Comment:	The KIA requests that AEM include fugitive dust as part of closure and post-closure monitoring.

