



Environmental Protection Operations Directorate (EPOD)  
Prairie and Northern Region (PNR)  
P.O. Box 1870  
Iqaluit NU X0A 0H0



May 12, 2014

EC file: 6100 000 012  
NWB file: 2BB-MEL0914

Megan Porter, Licensing Administrator Assistant  
Nunavut Water Board  
PO Box 119  
Gjoa Haven NU X0B 1J0

Via e-mail: [licensing@nwb-oen.ca](mailto:licensing@nwb-oen.ca)

Attention: Megan Porter

**RE: Agnico Eagle Mines Limited – Meliadine Gold Project – Amendment Renewal – Type “B”.**

Environment Canada (EC) has reviewed Agnico Eagle Mines Limited's (the Proponent) Type “B” Water Licence Amendment-Renewal application for the Meliadine Gold Project in response to the Nunavut Water Board's (NWB) correspondence dated April 29, 2014. EC's specialist comments related to this application are provided pursuant to the *Canadian Environmental Protection Act 1999*, the pollution prevention provisions of the *Fisheries Act*, the *Migratory Birds Convention Act*, and the *Species at Risk Act*.

### **Landfarming**

1. The Federal Guidelines for Landfarming Petroleum Hydrocarbon Contaminated Soils (SAIC, 2005) should be consulted as they contain landfarming specifics including minimum distances from landfarms to surface waters (500 m). Reference: SAIC Canada. 2005. Federal Guidelines for Landfarming Petroleum Hydrocarbon Contaminated Soils..
2. With respect to the remediation of petroleum hydrocarbon contaminated soils, please note that EC has a number of documents available that reference design, siting, operation, monitoring, sampling and analytical methods, decommissioning and closure as well as record keeping and reporting for cold climate landfarming / bioremediation facilities. Please contact EC to obtain a copy of any of the following documents:
  - Federal Guidelines for Landfarming Petroleum Hydrocarbon Contaminated Soils. SAIC Canada (Science Applications International Corporation), December 2005.
  - Bioremediation of Petroleum Hydrocarbons in Soil and Groundwater Under Cold Climate Conditions: A Review, Implications for Applications in Canada , Dale Van Stempvoort and Pame la Grande, National Water Research Institute in Burlington, December 2005.
  - Cold Climate Bioremediation: A Review of Field Case Histories. Pamela Rogers, Research Assistant, Department of Civil & Environmental Engineering, University of Alberta, July 2005.

All comments previously provided by EC would still apply, including comments provided in correspondence from EC to the NWB dated November 25, 2011; June 1, 2012; June 29, 2012; and previously.

For further clarification on any aspect of this submission, please contact Michael I. Mohammed at (867)-975-4637 or [michael.mohammed@ec.gc.ca](mailto:michael.mohammed@ec.gc.ca).

Sincerely,



Michael I. Mohammed  
Senior Environmental Assessment Coordinator

cc: Carey Ogilvie, Head Environmental Assessment North (NT & NU), PNR-EPOD  
EC Internal Distribution