

## MVEIRB/MVLWB Joint Technical Session

**De Beers Canada Inc. – Snap Lake Mine, NT**  
**Type A Water Licence Amendment Application MV2011L2-0004**  
**Environmental Assessment EA1314-02**

**DATE & TIME:** Tuesday-Wednesday, April 15-16, 2014 - 9:00 a.m. – 5:00 p.m.

**LOCATION:** Yellowknife Inn, Copper Room

**TELECONFERENCE DETAILS:** To be provided at a later date.

The De Beers Snap Lake Diamond Mine applied for an amendment to its type A water licence. This application triggered a regulatory process under the Mackenzie Valley Land and Water Board (MVLWB) and also, an environmental assessment under the Mackenzie Valley Environmental Impact Review Board (Review Board).

In order to conduct an efficient and timely review of the De Beers Snap Lake type A water licence amendment both Boards are running a coordinated and concurrent process up until the completion of the analytical phase. This process is outlined in the workplan which can be viewed on the Review Board's public registry, <http://www.reviewboard.ca/registry/>.

All evidence up until this point will be used by both boards for their individual processes and will ultimately be posted on both public registries. At the completion of the analytical phase, the Review Board will run an independent public hearing phase prior to releasing its Report of Environmental Assessment. Once the Report of Environmental Assessment is approved by the responsible Minister, the MVLWB will begin its Public Hearing phase.

Due to the unique nature of the referral, the Review Board issued a scoping document for public review that detailed which proposed amendments, and



associated activities, may be considered within the Review Board's environmental assessment and which ones may be dealt with strictly through the MVLWB regulatory process. At the completion of the public review of this scoping document, the Review Board issued its Scoping Reasons for Decision. The scope of this EA includes the effects to Snap Lake, and potentially affected downstream water bodies, from Total Dissolved Solids\* (TDS) and the following constituents of TDS, but not limited to:

- chloride,
- fluoride,
- nitrate,
- nitrite and,
- sulphate.

Typically the Review Board would issue a Terms of Reference and request the developer to produce a Developer's Assessment Report. However, for this assessment the Review Board has reviewed the developer's water licence amendment application and decided that it provides sufficient information to commence an assessment on those amendment requests which are within the scope. Should parties to the assessment determine that further information is required the Information Request stages and Technical Sessions will suffice to gather this information.

## STATUTORY REQUIREMENTS

The *Mackenzie Valley Resource Management Act (MVRMA)*, sections 114 and 115, require the Review Board to consider the biophysical, socio-economic and cultural impacts that result from activities associated with the amendments included in the scope of the EA.

Under subsection 117 of the *MVRMA* the following must also be considered when assessing the amendments, and their associated activities:

- cumulative impacts
- accidents and malfunctions
- alternate means of carrying out activities

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\* The total amount of dissolved substances, such as salts or minerals, in water remaining after evaporating the water and weighting the residue



The meeting will follow agenda topics. Times are provided as a guideline only.

**Day 1**

TIME	TOPIC
9:00 a.m. – 9:30 a.m.	MVEIRB/MVLWB Opening Comments and Roundtable Introductions
9:30 a.m. – 9:50 a.m.	De Beers Presentation on Water Balance Models <ul style="list-style-type: none"> <li>• <a href="#">Groundwater Flow Model Update</a></li> <li>• <a href="#">Site Model Water Balance Report</a></li> <li>• <a href="#">Site Model Hydrogeological Report</a></li> </ul>
9:50 a.m. – 10:30 a.m.	Question Period on Water Balance Models
10:30 a.m. – 10:45 a.m.	Short Break
10:45 a.m. – 11:15 a.m.	De Beers Presentation on Site Water Quality Models <ul style="list-style-type: none"> <li>• <a href="#">Mine Site Water Quality Model Report</a> (note that <a href="#">Appendix II</a> is separate document)</li> <li>• <a href="#">Snap Lake Hydrodynamic and Water Quality Model Report</a></li> </ul>
11:15 a.m. – 12:00 p.m.	Question Period on Site Water Quality Modelling
12:00 p.m. – 1:15 p.m.	Lunch (not provided)
1:15 p.m. – 1:45 p.m.	De Beers <a href="#">TDS Response Plan</a> Presentation <ul style="list-style-type: none"> <li>• Proposed WQO for TDS</li> <li>• Proposed WQO for Fluoride</li> <li>• Proposed WQO for Chloride</li> <li>• Proposed Mitigations</li> </ul>
1:45 p.m. – 2:45 p.m.	Question Period on TDS Response Plan content
2:45 p.m. – 3:00 p.m.	De Beers Nitrogen Response Plan Presentation <ul style="list-style-type: none"> <li>• Proposed WQOs</li> <li>• Proposed Mitigations</li> </ul>
3:00 p.m. – 3:15 p.m.	Short Break
3:15 p.m. – 3:45 p.m.	De Beers <a href="#">Nitrogen Response Plan</a> Presentation <ul style="list-style-type: none"> <li>• Proposed WQOs</li> <li>• Proposed Mitigations</li> </ul>



3:45 p.m. – 4:30 p.m.	Question Period on Nitrogen Response Plan content
4:30 p.m. – 4:45 p.m.	Review Day 1 IRs and Day 1 Closing

## Day 2

TIME	TOPIC
9:00 a.m. – 9:30 a.m.	MVEIRB/MVLWB Review of Day 1 Discussion and Roundtable Introductions
9:30 a.m. – 9:45 a.m.	De Beers <a href="#">Strontium Response Plan</a> Presentation <ul style="list-style-type: none"> <li>Proposed WQO</li> <li>Proposed Mitigations</li> </ul>
9:45 am – 10:15 a.m.	Question Period on Strontium Response Plan
10:15 a.m. – 10:30 a.m.	De Beers Proposed EQC Presentation <ul style="list-style-type: none"> <li><a href="#">Effluent Quality Criteria Report</a></li> </ul>
10:30 a.m. – 10:45 a.m.	Short Break
10:45 a.m – 11:00 a.m.	Question Period on Proposed EQC
11:00 a.m. – 12:00 p.m.	Question Period on Other Proposed Amendments
12:00 p.m. – 1:15 p.m.	Lunch (not provided)
1:15 p.m. – 3:00 p.m.	Time reserved for further discussion if needed
3:00 p.m. – 3:15 p.m.	Short Break
3:15 p.m. – 4:00 p.m.	Review Day 2 IRs and Day 2 Closing