



**Mackenzie Valley Land and Water Board**  
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## Staff Report

<b>Applicant:</b> De Beers Canada Inc.	
<b>Location:</b> Kennady Lake, NT	<b>Application:</b> MV2005L2-0015
<b>Date Prepared:</b> July 15, 2015	<b>Meeting Date:</b> July 23, 2015
<b>Subject:</b> Revision to Annex A: Surveillance Network Program	

### 1. Purpose/Report Summary

The purpose of this Report is to present to the Mackenzie Valley Land and Water Board (MVLWB/the Board) a revision to Annex A: Surveillance Network Program under Water Licence MV2005L2-0015.

### 2. Background

- August 11, 2014 – Board submits recommendation for approval of Licence MV2005L2-0015 to the Minister of Environment and Natural Resources;
- September 23, 2014 – Minister of Environment and Natural Resources approves Licence MV2005L2-0015;
- September 24, 2014 – Board issues Licence MV2005L2-0015 to De Beers;
- April 24, 2015 – De Beers submits 2014 Annual Report covering Licences MV2003L2-0005 and MV2005L2-0015 and Permit MV2005C0032;
- June 9, 2015 – Review comments due; and
- July 23, 2015 – Revision presented to the Board.

### 3. Discussion

During the review of the 2014 Annual Report, Environment Canada commented that as per Licence MV2005L2-0015, SNP-04 should include both Cesium and Rubidium (see below). De Beers responded that it was a clerical error that resulted in Rubidium not being included in the results and that Cesium was not included as a requirement of Licence MV2005L2-0015.

7	Type A Water Licence MV2005L2-0015; 2014 Annual Land and Water Licence Report Appendix B: Monitoring Results at SNP Stations Samples under the Type A Water Licence MV2005L2-0015 - pages 55 & 63	<p><b>Comment</b> As per Type A Water Licence MV2005L2-0015, sampling requirements for station SNP-04 during the drawdown of Kennady Lake (beginning and final day of the discharge period) include monitoring for cesium and rubidium. These parameters are missing from the summary results for SNP-04 in Table B.5 of Appendix B.</p> <p><b>Recommendation</b> EC recommends the Proponent provide the available raw and summary data for cesium and rubidium monitoring at SNP-04 and discuss any circumstances affecting the collection of this data (SNP amendments, other).</p>	<p><b>June 16:</b> A clerical error resulted in the omission of rubidium within the SNP results. Rubidium values will be inserted into the Annual Water License Report as well as subsequent SNP reports. MV2005L2-0015 listing of Total Metals from water samples does not include cesium as a required analyte. As such cesium was not reported within SNP-04.</p>
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Upon further review, Board staff noted that Cesium was left out of footnote (d) and (e). Although Cesium was not considered in the Effluent Quality Criteria report; it is a standard SNP requirement for metals analyses in water and was not intentionally excluded from the requirements for this site.

As well, Board staff noted that both SNP stations 02 and 04 reference the footnote related to sediment sampling parameters (f) and not water sampling parameters (d) or (e).

#### 4. Comments

Part B, item 7 of Licence MV2005L2-0015 allows the Board to amend the Schedules, SNP or any compliance dates specified in the licence at their discretion.

## **5. Reviewer Comments**

N/A

## **6. Security**

N/A

## **7. Conclusion**

Board staff concludes that Cesium should be included in both footnotes (d) and (e) and the referenced footnote in SNP stations 02 and 04 (currently (f)) should be changed to (d).

No action is required to address the omission of Rubidium. De Beers has committed to reporting Rubidium results in future SNP and Annual Reports.

## **8. Recommendation**

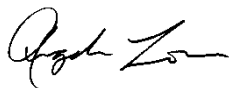
Board staff recommends the Board:

- a) Include Cesium in total and dissolved water analysis of water (footnotes (d) and (e)); and
- b) Change the referenced footnote in both SNP stations 02 and 04 (currently referencing (f)) to (d).

## **9. Attachments**

- Draft Conditions
- Draft Decision Letter from the Board

Respectfully submitted,



Angela Love  
Regulatory Officer