

August 22, 2017

Mr. Kevin McLeod  
Assistant Deputy Minister  
Director - Inuvik to Tuktoyaktuk Highway Project  
GNWT - Department of Infrastructure  
P.O. Box 1320  
Yellowknife, NT X1A 2L9

Dear Mr. McLeod:

**RE: N7L1-1835 – GNWT, DEPARTMENT OF INFRASTRUCTURE – INUVIK TO  
TUKTOYAKTUK HIGHWAY PROJECT - 2016/2017 ANNUAL REPORT**

The Inuvialuit Water Board (IWB) acknowledges receipt of the above-mentioned annual report. Upon review, the following information gaps were noted as required by Water Licence N7L1-1835 General Conditions Part B, Item 2:

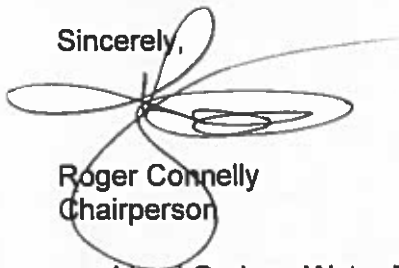
1. Annual Report - Section 3.1.1: Utilizing the withdrawal quantity provided (1,780m<sup>3</sup>), this would result in 3.56% of overall annual allowable use from all sources (Year 4 – 50,000m<sup>3</sup>) or 5.93% of use from source KP 55 (30,000m<sup>3</sup>). Your report indicates 0.03% and 8.90% respectively. Please correct these discrepancies.
2. Annual Report Table - Section 3.1.2: total water withdrawal is reported as 0m<sup>3</sup> where as for January 2017 total water withdrawal is reported as 1,780m<sup>3</sup>. This discrepancy needs to be addressed and the information resubmitted.
3. Part B, Item 2 d): Section 3.1.4 Table - the quantities of sewage accepted by the Hamlet of Tuktoyaktuk is not provided. Section 3.1.4 Table needs to be revised and the information resubmitted.
4. Part B, Item 2 f), and as required by the Surveillance Network Program (SNP) Schedule 1, Part B, Items 1, 2 and 3:
  - a. Annual Report - Appendix C - SRK Water Quality Monitoring Report - Page 37, Table 4-2: Water Quality (WQ) objectives for nitrate (NO<sub>3</sub>) for short-term and long-term exposures are indicated as 124 mg NO<sub>3</sub>-N/L and 13 mg NO<sub>3</sub>/L respectively. The guideline for NO<sub>3</sub> (13 mg NO<sub>3</sub>/L) can't be compared with the lab results reported as NO<sub>3</sub>-N. These discrepancies need to be addressed and the information resubmitted.
  - b. Annual Report - Appendix A – Map of Sampling Stations - Pages 4/5 and 5/5, SNP/AEMP Site Established – Year 3: The SNP sampling sites A, B, and C should be located on the map at 50 m upstream, 100 m downstream and 50 m downstream of the road crossing respectively. However, some of the SNP sampling sites on the maps (Pages 4/5 and 5/5) are located incorrectly (e.g. 1835-22 A, B, C; 1835-35 A, B, C; 1835-38 A, B, C; 1835-41 A, B, C; 1835-44 A, C). All the SNP sampling sites located on the maps (Pages 4/5 and 5/5) need to be rechecked, corrected and resubmitted.

- c. Printed copies of Water Quality Monitoring Data Tables attached as Appendices B, C, D and E are not readable (font size too small). Printed copies of Appendices B, C, D and E should be resubmitted as readable information with larger font size.
5. Part B, Item 2 i):
    - a. The IWB requested a report (IWB correspondence dated May 16, 2016) of the potential long-term impacts of the redesigned sections on permafrost and adjacent water bodies including mitigation measures. A summary of the report should be included in the Annual Report Section 3.1.9.
    - b. A brief description of any planned future studies should be provided in the Annual Report Section 3.1.9.
  6. Part B, Item 2 j): Appendix D - the ground temperature profiles for water crossing 15abc - pages 40, 41 and 42 are not in readable format. Appendix D - ground temperature profiles for water crossing 15abc - pages 40, 41 and 42 - should be resubmitted in readable format.
  7. Part B, Item 2 k):
    - a. Annual Report Section 3.1.11: a statement indicates "*No revision or updates to the Environmental Management Plans were done in 2015/2016*". Updated information should be provided for 2016/2017 reporting year. The information provided under Section 3.1.11 of the annual report needs to be revised and resubmitted.
    - b. As indicated in the IWB correspondence dated August 16, 2016, include a description, under Section 3.1.11 of the annual report, of updates and/or revisions to Pit Development Plan Borrow Source 312, including those describing the relocation of the temporary work camp.
  8. Part B, Item 2 q): provide an outline of any reclamation work anticipated for the next year (2017 – 2018).

Please submit two (2) hard copies and two (2) electronic copies of the of the above additional information. Submitted documentation, including all related IWB correspondence, will be placed on the IWB Public Register.

Should you have any questions or concerns regarding these matters, please do not hesitate to contact the IWB Executive Director Mardy Semmler at 867-678-8609 or [semmlerm@inuvwb.ca](mailto:semmlerm@inuvwb.ca).

Sincerely,



Roger Connolly  
Chairperson

cc: Lloyd Gruben, Water Resources Officer - ENR Inuvik  
Dean Ahmet, Senior Project Manager – ITH Department of Infrastructure