



Environment and
Climate Change Canada

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**Environment and Climate Change Canada's
Presentation to the Mackenzie Valley
Environmental Impact Review Board Respecting
the Tłjchq All-Season Road (TASR) Project**

**EA1617-01
MVEIRB Public Hearing
Whatì, NWT
Bradley Summerfield, EPOD
November 15-17, 2017**

Presentation Overview

- Mandate
- Relevant Acts and Legislation
- Issues and Recommendations
 - **Aquatic Environment**
 - Acid Rock Drainage and Metal Leaching
 - Erosion and Sediment Control
 - In-Field Water Analysis Plan



Environment and Climate Change Canada's Mandate

- Preserve and enhance the quality of the natural environment
- Conserve Canada's renewable resources
- Conserve and protect Canada's water resources
- Forecast daily weather conditions and warnings
- Enforce rules relating to boundary waters
- Coordinate environmental policies and programs



How Environment and Climate Change Canada Fulfills its Mandate

- Relevant Legislation:
 - *Canadian Environmental Protection Act, 1999*
 - *Fisheries Act - Pollution Prevention Provisions*
 - *Migratory Birds Convention Act, 1994*
 - *Species at Risk Act*



Issue 4.1.1: Acid Rock Drainage and Metal Leaching

- The Proponent committed to avoiding borrow sources characterized with high or moderate identification of acid rock drainage or metal leaching potential as sources for construction.
- ECCC is satisfied with the Proponent's commitments regarding Issue 4.1.1, Acid Rock Drainage and Metal Leaching (PR#171) and has no further recommendations or outstanding concerns on this issue at this time.



Issue 4.1.2: Erosion and Sediment Control

- ECCC has concerns with the ability to respond to thaw and/or erosion events as well as identification of monitoring and response measures for thermal erosion.
- Lessons learned from other northern projects should be included in the ESC Plan and provided upfront with the Water Licence Application.
- ECCC is satisfied with the Proponent's commitments regarding Issue 4.1.2, Erosion and Sediment Control (PR#171) and notes that the ESC Plan, response measures and lessons learned including requirements for monitoring, reporting and adaptive management from other northern projects could be reviewed during the regulatory phase if they are provided upfront with the Water Licence Application.



Issue 4.1.3: In-Field Water Analysis Monitoring Plan

- ECCC has concerns regarding monitoring of Project effects on the aquatic environment.
- Monitoring should be completed until results demonstrate that there will be no erosion and/or water quality issues to confirm the prediction that the Project will not cause changes to the aquatic environment.
- Although an updated draft In-Field Water Analysis Monitoring Plan would be relevant to assessing potential impacts during the EA, it could also be reviewed during the regulatory phase if it is provided upfront with the Water Licence Application.



Issue 4.1.3: Recommendations

- Add water quality monitoring pre-construction, during freshet and immediately after heavy rainfall events to the sampling regime for water crossings in the updated In-Field Water Analysis Monitoring Plan.
- Complete monitoring following spring freshet, during the summer and late fall. If there are no issues identified then this could revert to the general road inspections. If instability or erosion is detected, monitoring and mitigation take place again the next year in all three seasons. This monitoring should be outlined in the updated In-Field Water Analysis Monitoring Plan.



Thank-you

Any Questions or Comments?

