



TMAC Resources Inc.

Amendment Application No. 1 to Water Licence No. 2AM-DOH1323

Community Presentation
Nunavut Water Board Public
Hearing
Cambridge Bay, Nunavut

September 13, 2016



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Outline

1. Roles and Responsibilities
2. Review Process Contributions
3. Technical Review
4. Reclamation Security
5. INAC Inspections
6. Conclusion



Doris Camp, August 2015

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2. Roles and Responsibilities

INAC's mandate and obligations stem from legislation.

- *Nunavut Waters and Nunavut Surface Rights Tribunal Act* and the *Nunavut Water Regulations*;
- The *Department of Indian Affairs and Northern Development Act*;
- The *Nunavut Land Claims Agreement Act*;
- The *Territorial Lands Act* and the associated regulations; and
- The *Arctic Waters Pollution Prevention Act* and the associated regulations.



3. Review Process Contributions

Contribution	Date
Ongoing review of Water Licence amendment application and relevant management plans	Aug. 2015 - Present
Nunavut Water Board (NWB) Technical Meeting (Cambridge Bay, NU)	Jan. 28-29, 2016
NWB Pre-Hearing Conference (Teleconference)	June 24, 2016
NWB Public Hearing (Cambridge Bay, NU)	Sept. 13-14, 2016



4. Technical Review

a) Water Quality and Quantity Predictions

- Management of freshwater at the mine site to ensure protection of surrounding water sources.

b) Roberts Bay Discharge Monitoring

- Discharge of water from the Tailings Impoundment Area to Roberts Bay (ocean) is not within the scope of the Water Licence.
- This activity will be addressed under the *Metal Mining Effluent Regulations* and may also require authorization under the *Arctic Waters Pollution Prevention Act*.



Doris Lake, August 2015

INAC Photo



4. Technical Review

c) Waste Rock and Tailings

- Design and management of aboveground Tailings Impoundment Area.
- Management of waste rock and tailings to be permanently stored underground.

d) Mitigation Measures

- Dust control for aboveground tailings.



Doris Lake and Tailings Impoundment Area North Dam, August 2015

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Tailings Impoundment Area, August 2015

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4. Technical Review

e) Water Treatment

- Treatment of sewage effluent and cyanide in mill process water.
- No additional treatment planned for water from the Tailings Impoundment Area before ocean discharge.

f) Management Plans and Reports

- Management plans describe how concepts are implemented.
- Monitoring reports document the results of project activities.



Doris Creek, August 2015

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4. Technical Review

g) Closure and Reclamation Planning

- Final tailings cover design for Tailings Impoundment Area will be submitted for NWB approval before construction.
- Water quality in Tailings Impoundment Area must be satisfactory before the containment dam can be breached following closure.



5. Reclamation Security

- Financial reclamation security must be provided to ensure closure costs are paid by the mine operator rather than the Crown or the land owner (Kitikmeot Inuit Association).
- The Department would like to co-manage reclamation security with the Kitikmeot Inuit Association.



6. INAC Inspections

INAC Water Resource Officers visit project sites to monitor compliance with Water Licences and other authorizations.

2015-2016 Doris North Gold Mine Site Inspections:

1. July 18-19, 2015;
2. Sept. 26-27, 2015; and
3. April 5-7, 2016.

Inspection reports with TMAC responses are available on the Nunavut Water Board's website.



Diamond Drill at Hope Bay, August 2015

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7. Conclusion

The Water Licence Amendment Application should be accepted with consideration of the Department's comments.

The Department is interested in co-managing reclamation security with the Kitikmeot Inuit Association.



Thank you

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