

Whale Tail Expansion Project Water Licence Amendment Application

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KIA - NTI TECHNICAL REVIEW of the Water License



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Water Licence Review

- The purpose of our technical review was to ensure the project can operate in line with the potential impacts and benefits described through the concurrent impact assessment; and
- To ensure Inuit Qaujimajatuqangit (IQ) values and Traditional Knowledge (TK) were incorporated into impact determination, mitigation, project design and monitoring.



Submission to Nunavut Water Board

- A Technical Review of the water licence amendment application was submitted to NWB on September 16th, 2019.
- Our review highlighted 21 technical concerns, the majority of which followed directly from our completeness review submitted in July 2019.
- We raised several concerns with respect to understanding potential impacts to water quality and quantity from the expansion project
- We also raised several concerns pertaining to water management and mitigation

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- Agnico Eagle and the KIA have worked to resolve our technical concerns with the project.
- As of the technical hearings in October 2019, 9 of the 21 issues were resolved.
- Agnico Eagle made new commitments during those hearings which have resolved most of our outstanding issues.
- Additional evidence was provided on January 30, 2020 in response to the KIA's final submission
- All KIA's previous technical issues have been resolved



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Issues Resolved Prior to KIA Final Submission ᐃᓕᐃᓐᑦᑕᐃᓕᐃᓐᑦ ᐃᓕᐃᓐᑦ ᐃᓕᐃᓐᑦ ᐃᓕᐃᓐᑦ ᐃᓕᐃᓐᑦ ᐃᓕᐃᓐᑦ ᐃᓕᐃᓐᑦ ᐃᓕᐃᓐᑦ ᐃᓕᐃᓐᑦ ᐃᓕᐃᓐᑦ

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| • KIA-WL-TC#14
Fate of Equipment | • KIA-WL-TC#14 ᐃᓕᐃᓐᑦ ᐃᓕᐃᓐᑦ ᐃᓕᐃᓐᑦ
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| • KIA-WL-TC#15
Inuit Input into Closure Objectives | • KIA-WL-TC#15 ᐃᓕᐃᓐᑦ ᐃᓕᐃᓐᑦ ᐃᓕᐃᓐᑦ
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| • KIA-WL-TC#16
High TSS Concentrations during Construction | • KIA-WL-TC#16 ᐃᓕᐃᓐᑦ ᐃᓕᐃᓐᑦ TSS-ᐃᓕᐃᓐᑦ
ᐃᓕᐃᓐᑦ |
| • KIA-WL-TC#17
Overburden for Closure | • KIA-WL-TC#17 ᐃᓕᐃᓐᑦ ᐃᓕᐃᓐᑦ ᐃᓕᐃᓐᑦ
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| • KIA-WL-TC#19
Testing of used oil/waste fuel | • KIA-WL-TC#19 ᐃᓕᐃᓐᑦ ᐃᓕᐃᓐᑦ ᐃᓕᐃᓐᑦ
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| • KIA-WL-TC#20
Conceptual fish habitat offsetting plan | • KIA-WL-TC#20 ᐃᓕᐃᓐᑦ ᐃᓕᐃᓐᑦ ᐃᓕᐃᓐᑦ
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| • KIA-WL-TC#21
Waste Rock Storage Facility Design | • KIA-WL-TC#21 ᐃᓕᐃᓐᑦ ᐃᓕᐃᓐᑦ ᐃᓕᐃᓐᑦ
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Issues Resolved Following KIA's Final Submission

Water Balance Concerns

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Issues Resolved Following KIA's Final Submission

Water Quality Concerns

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| KIA-WL-TC#2 | Removal of pit walls from water quality model predictions |
| KIA-WL-TC#3 | Cryo-concentration in water quality model assumptions |
| KIA-WL-TC#6 | Climatic inputs for water quality model |
| KIA-WL-TC#9 | Arsenic and ARD mitigation on Whale Tail Pit Wall |
| KIA-WL-TC#18 | Water Quality Contingencies |



Recently Resolved Issues – Water Quality Concerns

- Agnico Eagle provided evidence to partially resolve these issues in response to the KIA's technical submission in September 2019.
- However, it became evident that a structured adaptive management approach was required based on uncertainties in the outputs of the water quality and water balance models as well as the potential for both arsenic and acid rock drainage
- Agnico Eagle has developed an Adaptive Management Plan outlining specific monitoring, management and mitigation measures



Recently Resolved Issues – Water Quality Concerns

[illegible]

- Adaptive Management strategies were proposed for waste rock and water management. Specifically:
 - Permafrost aggradation
 - Surface water balance and active layer development
 - Receiving environment water quality
 - Surface water quantity
 - Underground water management
- The proposed measures are intended to minimize potential project related environmental impacts and ensure the site will be able to meet its closure objectives.



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[illegible]

- Adaptive management measures for surface water quantity (Table 4 in the Adaptive Management Plan) should be implemented prior to reaching the maximum operational capacity of the water storage infrastructure.
- This concern applies both to Level 1 and Level 2 of the surface water quantity adaptive management strategy.
- We recommend Agnico Eagle begin implementing management strategies at 90% storage capacity withing the noted water management infrastructure

Security and Compensation

Security $\gamma^{\sigma} \Delta \rho_c$

- The KIA has worked with Agnico Eagle and Crown Indigenous Relations and Northern Affairs Canada to update the Security estimate for the Whale Tail Expansion Project.
- Total security is currently estimated by the KIA at \$50,663,508



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Questions ᐃᐱᓐᐅᐃᓐᐅ

