Hutchinson
Environmental Sciences Ltd.

ᑕᓯᕐᔪᐊᕐᒥ ᐃᒪᕐᒥᒃ ᐊᑐᕈᓐᓇᐅᑎᑖᕐᓂᖅ

October 14-15, 2015,
Rankin Inlet, NU

Kivalliq Inuit Association
ᑭᕙᓪᓕᕐᒥ ᐃᓄᐃᑦ ᑲᑐᑦᔾᔨᖃᑎᒌᑦ

NUNAVUT TUNNGAVIK

Overview

- This presentation accompanies our submission to the Nunavut Water Board on October 5, 2015
  - *"R151002_J150077_Meliadine WL A Technical Review_FINAL"*
  - That submission documents our concerns and resolutions as of the submission date

- Our review was comprised of 27 separate information requests and technical comments

- We have communicated with AEM over the past month, clarifying issues and resolving some
- 21 of our concerns are resolved at this point
  - AEM has documented their commitments in a spreadsheet they intend to submit to the Nunavut Water Board
    - This spreadsheet has yet to be reviewed by the KIA

ᕿᒥᕐᕈᓂᖅ ᐱᓕᕆᐊᖑᔪᓂᒃ

ᑖᒻᓇ ᐃᓗᓕᖃᖅᑐᖅ ᑐᓂᓚᐅᖅᑕᑉᑎᓐᓂᒃ ᓄᓇᕗᒻᒥ ᐃᒪᓕᕆᔨᒃᑯᓐᓄᑦ ᐊᒃᑑᐸ 5, 2015ᒥ

- ❖ “R151002_J150077_Meliadine WLA Technical Review_Final”
- ❖ ᑕᐃᒻᓇ ᑐᓂᓚᐅᖅᑕᕗᑦ ᓇᓗᓇᐃᕆᔪᖅ ᐃᓱᒫᓗᑎᑉᑎᓐᓂᒃ ᐊᒻᒪ ᐋᖅᑭᒋᐊᕈᑕᐅᓚᐅᖅᑐᓂᒃ ᑕᐃᑲᓂ ᐅᑉᓗᕐᒥ.
- ᕿᒥᕐᕈᓂᖅᐳᑦ ᐃᓗᓕᖃᓚᐅᖅᑐᖅ 27ᓂᒃ ᐊᔾᔨᒌᖕᒋᑦᑐᓂᒃ ᑐᓴᒃᑲᓂᕈᒪᔾᔪᑎᓂᒃ ᐊᒻᒪ ᐃᓱᒪᒋᔭᑉᑎᓐᓂᒃ.
- ᐅᖃᖃᑎᒋᓯᒪᔭᕗᑦ AEMᑯᑦ ᑕᖅᑭᐅᓚᐅᖅᑐᒥ ᑐᑭᓯᓐᓇᖅᓯᒋᐊᕈᑎᓂᒃ ᐅᖃᐅᓯᖃᖅᖢᑕ ᐊᒻᒪ ᐋᖅᑭᒃᓯᑉᓗᑕ ᐃᓚᖕᒋᓐᓂᒃ.
- 21ᓂᒃ ᐃᓱᒫᓗᑕᐅᓚᐅᖅᑐᓂᒃ ᐋᖅᑭᒃᓯᓯᒪᓕᖅᑐᒍᑦ ᒫᓐᓇᒧᑦ.
    - AEM ᑯᑦ ᑎᑎᕋᖅᓯᒪᔪᑦ ᐱᒋᐊᕐᓂᕆᓂᐊᖅᑕᒥᓂᒃ ᑕᑯᔭᒃᓴᓄᑦ ᑐᓂᓂᐊᖅᑕᒥᓄᑦ ᐃᒪᓕᕆᔨᒃᑯᑦ ᑲᑎᒪᔨᖕᒋᓐᓄᑦ.
    - ᑖᒻᓇ ᑕᑯᔭᒃᓴᖅ ᕿᒥᕐᕈᔭᐅᓯᒪᖕᒋᑦᑐᖅ ᔨᓕ ᑮ ᐊᐄ ᐄ ᑯᓐᓄᑦ.

Guiding Principles

- Our review is guided by
  - Nunavut Water Board's (NWB) water quality framework
    - protect, manage and regulate freshwaters in Nunavut in a manner that will provide the optimum benefits for the residents of the territory in particular and Canadians in general
  - The Nunavut Land Claims Agreement, and
  - The right of Kivalliq Inuit to minimal changes to the environment

- The Kivalliq Inuit Association contracted the services of Hutchinson Environmental Sciences Ltd. and GeoVector Management Inc. to assist with the technical review of the licence.

ᑐᖖᒐᕕᒋᑉᓗᒋᑦ ᒪᓕᓚᐅᖅᑕᕗᑦ ᐅᑯᐊ

- ᕿᒥᕐᕈᓂᕆᓴᕗᑦ ᒪᓕᓚᐅᖅᑐᖅ ᐅᑯᓂᖕᒐ
  - ᓄᓇᕗᒻᒥ ᐃᒪᓕᕆᔨᒃᑯᑦ ᐃᒪᕐᑎᐊᕙᖃᕐᓂᕐᒧᑦ ᒪᓕᒐᖕᒋᑦ
    - ᒥᐊᓂᕆᓗᒍ, ᐊᐅᓚᑦᑎᐊᕐᓗᒎᖅᑐᖅᑕᐅᓂᖕᒐ ᐃᒪᐃᑦ ᑕᓯᕐᓂ ᓄᓇᕗᒻᒥ ᐱᐅᓂᖅᐹᑎᒍᑦ ᐱᕙᓪᓕᐅᑕᐅᔪᓐᓇᖁᑉᓗᒍ ᐊᖏᓂᖅᐹᒥᒃ ᐃᓄᖁᑎᖏᓐᓄᑦ ᓄᓇᕗᑦ ᐊᒻᒪ ᑲᓇᑕᒥᐆᑦ.
  - ᓄᓇᕗᑦ ᐊᖏᖃᑎᒌᒍᑖ, ᐊᒻᒪ
  - ᑭᕙᓪᓕᕐᒥ ᐃᓄᐃᑦ ᐊᔪᙱᓐᓂᖏᑦ ᒥᑭᓂᖅᐹᒥᒃ ᐊᒃᑐᖅᑕᐅᖁᑉᓗᒍ ᐊᕙᑎᖕᒐᑦ
- ᑭᕙᓪᓕᕐᒥ ᐃᓄᐃᑦ ᑲᑐᔾᔨᖃᑎᒌᑯᖕᒋᑦ ᐱᓕᕆᔨᑖᓚᐅᖅᐳᑦ Hᐊᑦᑎᓐᓯᓐ ᐊᕙᑎᓕᕆᔨᒃᑯᑦ ᐊᒻᒪ ᒌᐆ ᕕᒃᑐ ᐊᐅᓚᑦᑎᔩᑦ ᑯᓐᓂᒃ ᐃᑲᔪᖁᑉᓗᒋᑦ ᕿᒥᕐᕈᓂᕐᒥᒃ ᓚᐃᓴᑖᕋᓯᒍᑎᒥᒃ.

UNRESOLVED ISSUES

ᐃᓱᒫᓗᑏᑦ ᐱᐋᓂᒃᓯᒪᖏᑦᑐᑦ

KIA-WL-05: Saline Groundwater Inflows
KIA-WL-05: ᑕᑎᐅᖅᑲᖅᑐᑦ ᒪᓂᖅᑲᒥ ᐃᒪᐃᑦ ᐃᓗᒻᒧᑦ ᑰᖑᓂᖏᑦ

Issue

- Saline groundwater is projected to flow into the underground works
- The Water Management Plan does not provide full details for long term saline water management and disposal
- Saline discharges may cause negative impacts to the receiving environment

ᐃᓱᒫᓘᑦ

- ᑕᑎᐅᓖᑦ ᐃᒪᐃᑦ ᓄᓇᒥᑦ ᑰᖑᓂᐊᕋᓱᒋᔭᐅᒍᑦ ᓄᓇᐅᑉ ᐃᓗᐋᓄᑦ
- ᐃᒪᕐᒥᒃ ᐊᐅᓚᑦᑎᓂᐊᕐᓃᑦ ᐸᕐᓇᒃᓯᒪᔪᑎᖏᑦ ᓇᓗᓇᐃᕆᓯᒫᓂᖏᑐᑦ ᖃᓄᖅ ᐃᒃᐲᓐᓇᕐᓂᖅᑲᕈᒫᕐᒪᖔᑦ ᐅᑭᐅᑦ ᐊᒥᓱᑦ ᓈᒃᐸᑕ ᖃᓄᐃᓐᓂᐊᕐᒪᖔᑦ ᐊᒻᒪ ᖃᓄᖅ ᐊᒃᑐᖅᑕᐅᓂᐊᕐᒪᖓᑦ.
- ᑕᑎᐅᕐᑲᕐᓃᑦ ᐊᓂᐋᕙᕝᓚᐋᔪᑦ ᐊᕙᑎᒧᑦ ᐱᐅᖏᓐᓂᖅᑲᐃᓐᓇᑎᐊᓖᑦ.

KIA-WL-05: Saline Groundwater InflowsI
KIA-WL-05: ᑕᓇᖅᑲᖅᑐᑦ ᒪᓂᖅᑲᒥ ᐃᒪᐃᑦ ᐃᓗᒻᒧᑦ ᑰᖕᓂᖕᒋᑦ

Request	ᑐᒃᓯᕋᐅᑦ
• We recommend that the NWB include a condition in the licence that requires submission of a long-term saline groundwater management plan for approval by the NWB 6 months prior to any planned discharge • AEM is working with Environment Canada to resolve regulatory challenges posed by saline discharges to the marine environment • Environment Canada should commit to provide specific guidance to AEM to regulate discharges within the project timeline	• ᑐᒃᓯᕋᖅᐳᒍᑦ NWB (ᐃᒪᓕᕆᔩᑦ) ᐃᓗᓕᖅᑲᖅᑯᑉᓗᒍ ᓚᐃᓴᑖᕈᑎᒥ ᑕᑯᔭᒪᓗᑎᒃ ᐊᑯᓂ ᑕᓇᐅᓖᑦ ᖃᓄᖅ ᐃᒃᐱᖕᓇᕐᓂᖅᑲᕐᓂᐊᕐᒪᖕᒎᑖ ᐊᐅᓚᑦᑎᕝᕙᓂᒥᒃ ᓈᒻᒪᒋᔭᐅᔭᓇᐊᖅᑲᖅᑐᒥᒃ NWB kunnut6 ᑕᖅᑮᑦ ᐱᒋᐊᓚᐅᖅᑎᓐᓇᒋᑦ ᑯᕕᓂᐊᖅᑎᓪᓗᒋᑦ ᑕᓇᐆᓕᖕᓂᒃ ᐃᒪᖅᓂᒃ. • AEM ᐱᓕᕆᖅᑲᑎᖅᑲᖅᑐᑦ ᑲᓇᑕᒥ ᐊᕙᑎᓕᕆᔨᒃᑯᓐᓂᒃ ᐋᖅᑭᒃᓯᓇᓱᒃᓗᑎᒃ ᒪᓕᒐᖅᓂᒃ ᐃᓗᐊᖕᒋᓕᐆᕈᑕᐅᔫᓂᒃ ᑕᓇᐅᖅᑲᖅᑐᓂᒃ ᑯᕕᓯᓂᐅᑉ ᒥᒃᓵᓄᑦ ᐃᒃᐱᖕᓇᕐᓂᖅᑲᕈᓐᓇᕐᓂᖕᒋᓐᓂᒃ ᐃᒪᕐᒥᐅᑕᓄᑦ. • ᐊᕙᑎᓕᕆᔨᒃᑯᑦ ᑲᓇᑕᒥ ᒪᓕᒐᒃᓴᓂᒃ ᓴᖅᑭᑦᑎᔭᓇᐊᖅᑲᕋᔭᖅᒪᑕ AEM ᑯᓐᓄᑦ ᐊᐅᓚᑦᑐᓐᓇᕐᓂᐊᕐᓗᒋᑦ ᑯᕕᓯᖅᑲᑦᑕᕐᓂᐅᓂᐊᖅᑐᑦ ᓈᒪᓇᖅᓯᒪᓗᒋᑦ

KIA-WL-06: Site-Specific Water Quality Objective Derivation
KIA-WL-06: ᐱᓕᕆᕝᕕᐅᔪᒧᑦ ᑐᕌᖅᑐᑦ ᐃᒪᖃᑦᑎᐊᕐᓂᐅᑉ ᓴᖅᑭᓐᓂᖅᑎᑦ

Issue	ᐃᓱᒫᓗᑦ
Site Specific Water Quality Objectives were developed for aluminum, fluoride, and iron for the Meliadine site • No methodology was provided in the original submission	ᐱᓕᕆᕝᕕᖕᓂ ᑐᕌᖅᑐᑦ ᐃᒪᐃᑦ ᖃᓄᐃᑦᑐᓂᐊᕐᓂᖅᑎᑦ ᐊᖅᑭᒃᑕᐅᓚᐅᖅᑐᑦ ᓴᕕᒃᓴᓄᑦ ᐊᑭᑦᑐᓄᑦ, ᑭᓂᖅᑐᓄᑦ, ᐊᒻᒪ ᓴᕕᒃᓯᓐᓄᑦ ᑕᓯᕐᔪᐊᕐᒥ. • ᖃᓄᖅ ᐱᓕᓇᐊᕐᒍᓂᐊᕐᒪᖖᒋᑖ ᐱᑕᖃᓚᐅᖏᑦᑐᖅ ᓯᕗᓪᓕᕐᒥ ᓴᖅᑭᑕᐅᔪᒥ
Arsenic concentrations in Collection Pond 4 could slightly exceed the site-specific water quality objective post-closure	ᓴᕕᒃᓴᖅᑕᓖᑦ ᐅᓗᓇᐊᓇᖅᑐᓂᒃ ᑲᑎᖅᓱᖅᑕᐅᕝᕕᖕᓂ ᑕᓯᕐᒥ naasautilik4 ᒥᒃ ᖁᖏᐅᑎᓯᒫᕐᔪᒍᓐᓇᖅᑐᑦ ᐃᒪᐅᑉ ᓇᓗᓇᐃᒃᑯᑕᓇᔾᓇᐊᖃᖅᑕᕐᒋᓐᓂᒃᑯ ᐊᓚᐅᖅᑎᓪᓗᒍ.
Rainbow trout bioassay was conducted with aged waste rock rather than fresh	ᐃᖅᐸᐃᑦ ᖃᐅᔨᓴᖅᑕᐅᓚᐅᖅᑐᑦ ᐅᔭᕋᒃᑕᖅᑕᐅᓯᒪᓂᑯᓂᒃ ᐊᑐᖅᓱᑎᒃ ᓄᑖᓃᖏᑦᑐᖅ

KIA-WL-06: Site-Specific Water Quality Objective Derivation
KIA-WL-06: ᐱᓕᕆᕝᕕᐅᔪᒧᑦ ᑐᕌᖅᑐᑦ ᐃᒪᖃᑦᑎᐊᕐᓂᐅᑉ ᓴᖅᑭᓐᓂᖏᑦ

Request

- AEM has provided the relevant information to satisfy our concerns regarding SSWQO derivation
- We are satisfied with the SSWQOs for construction and operation as all waste streams are collected in CP1 and effluent quality regulated
- NWB include a condition in the licence that current SWQOs not apply for the life of the mine
  - The SSWQOs for closure should be revisited using operational data

ᑐᒃᓯᕋᐅᑦ

- AEM ᑯᑦ ᐅᕙᑉᑎᓐᓄᑦ ᑐᓂᓯᓚᐅᖅᑐᑦ ᓈᒻᒪᒃᑐᓂᒃ ᐃᓱᒫᓗᑕᐅᓚᐅᖅᑑᑉ ᒥᒃᓵᓄᑦ ᐃᒪᐅᑉ ᒥᒃᓵᓄᑦ ᐱᓕᕆᕝᕕᖕᓂ
- ᓈᒻᒪᒋᔭᕗᑦ ᐃᒪᐃᑦ ᒥᒃᓵᓄᑦ ᐊᑐᖅᑕᐅᓂᐊᖅᑐᑦ ᓴᓇᓕᖅᐸᑕ ᐊᒻᒪ ᐊᐅᓪᓛᖅᑎᑦᑎᓕᖅᐸᑕ. ᑕᒪᕐᒥᒃ ᐃᒪᐃᑦ ᑰᒐᓛᖕᒋᑦ ᑲᑎᑕᐅᓂᐊᕐᒪᑕ CP1 ᒥ ᐊᒻᒪ ᓴᓗᒪᓂᖕᒋᑦ ᖃᐅᔨᓴᖅᑕᐅᖕᒋᓐᓇᕐᓂᐊᖅᓱᑎᒃ
- NWB ᑯᑦ ᐃᓗᓕᖅᑲᖅᑎᑦᑎᓗᑎᒃ ᓚᐃᓴᒥ ᑖᑉᑯᐊ ᒪᓐᓇ ᐃᒪᕐᑐᕐᓂᐅᓂᐊᖅᑐᑦ ᐊᑐᕐᓂᐊᖏᓪᓗᒋᑦ ᐊᐅᓪᓛᕐᓂᓗᒃᑖᖕᒐᓄᑦ ᐅᔭᖅᑕᓇᐊᑉ
  - ᑐᒃᓯᕋᐅᑏᑦ ᐅᒃᑯᐊᖅᑕᐅᓂᓇᔫᖅᑕᖕᒐᓄᑦ ᕿᒥᕐᕈᔭᐅᒃᑲᓐᓂᕋᔭᕐᒪᑕ ᐊᑐᕐᓗᑎᒃ ᐊᐅᓪᓚᕐᓂᖕᒐᑦ ᒥᒃᓵᓄᑦ ᐊᑐᕐᓂᑯᓂᒃ

KIA-WL-07: Mixing Zone Water Quality Monitoring
KIA-WL-07: ᐊᑯᑦᑕᐅᕙᓪᓚᐊᔪᑦ ᐃᒪᐃᑦ ᐱᐅᓂᖓᑕ ᖃᐅᔨᓴᖅᑕᐅᓂᖏᑦ

Issue

- AEM has proposed 5 sites in the near field exposure area near the diffuser
- One site (MEL_03) is proposed to monitor effluent from the diffuser
- Wind, flow and other mixing zone dynamics limit the capacity of a single monitoring station to appropriately characterize the mixing zone and assimilative capacity of Meliadine Lake
- A minimum of three sites around the discharge point are recommended to assess the capacity of the mixing zone to assimilate the effluent and verify predictions of mixing zone size under all ambient conditions.

ᐃᓱᒫᓘᑦ

- AEM ᑯᑦ 5ᓂᒃ ᓇᓗᓇᐃᕆᓯᒪᔪᑦ ᓯᓚᒥ ᖃᓂᒋᔭᓂ ᓴᓗᒻᒪᖅᓴᐃᕝᕕᐅᑉ
- ᐊᑕᐅᓯᖅ (MEL_03) ᖃᐅᔨᓴᕐᕕᐅᕐᖁᔭᐁᔪᖅ ᓴᓗᒻᒪᖅᓴᐃᕝᕕᖓᒥ ᐊᓂᒍᕙᓪᓚᐊᔪᓂᒃ
- ᐊᓄᕆ, ᑰᖑᓃᑦ ᐊᒻᒪ ᐊᓯᖏᑦ ᐊᑯᑦᑎᕝᕕᐅᑉ ᒥᒃᓵᓄᑦ ᐊᔪᕐᓇᕈᑕᐅᕙᖓᑕ ᐊᑕᐅᓯᕐᒥᒃ ᖃᐅᔨᓴᕐᕕᖃᕐᓂᕐᒥᒃ ᖄᐅᔨᒪᓇᓱᒡᓗᒍ ᐊᑯᑕᐅᕙᓪᓚᐊᔪᑦ ᒥᒃᓵᓄᑦ ᑕᓯᕐᔪᐊᕐᒥ
- ᒥᑭᓂᖅᐹᒥᒃ ᐱᖓᓱᓂᒃ ᖃᐅᔨᓴᕝᕕᖓᓂᒃ ᐱᑕᖃᕐᑯᔭᐅᕗᖅ ᖃᐅᔨᓴᑦᑎᐊᕈᓐᓇᕐᑯᑉᓗᒍ ᓈᒻᒪᒃᑲᓗᐊᕐᒪᖔᑦ ᐊᑯᑕᐅᕙᓪᓚᐊᔪᖅ ᐊᓂᒍᕙᓪᓚᐊᔪᕐᓗ ᐊᒻᒪ ᖃᐅᔨᒪᓇᓱᒡᓂᐊᕐᓗᓂ ᑕᓯᕐᖅ ᐊᑯᑦᑎᕝᕕᐅᔪᖅ ᓈᒻᒪᒃᑲᓗᐊᕐᒪᖔᑦ ᓱᓇᓗᒃᑖᑦ ᑕᐅᑦᑑᒃᑯᓐᓂᑦ.

KIA-WL-07: Mixing Zone Water Quality Monitoring
KIA-WL-07: ᐊᑯᑦᑕᐅᕙᓪᓚᐊᔪᑦ ᐃᒪᐃᑦ ᐱᐅᓂᖓᑕ ᖃᐅᔨᓴᖅᑕᐅᓂᖏᑦ

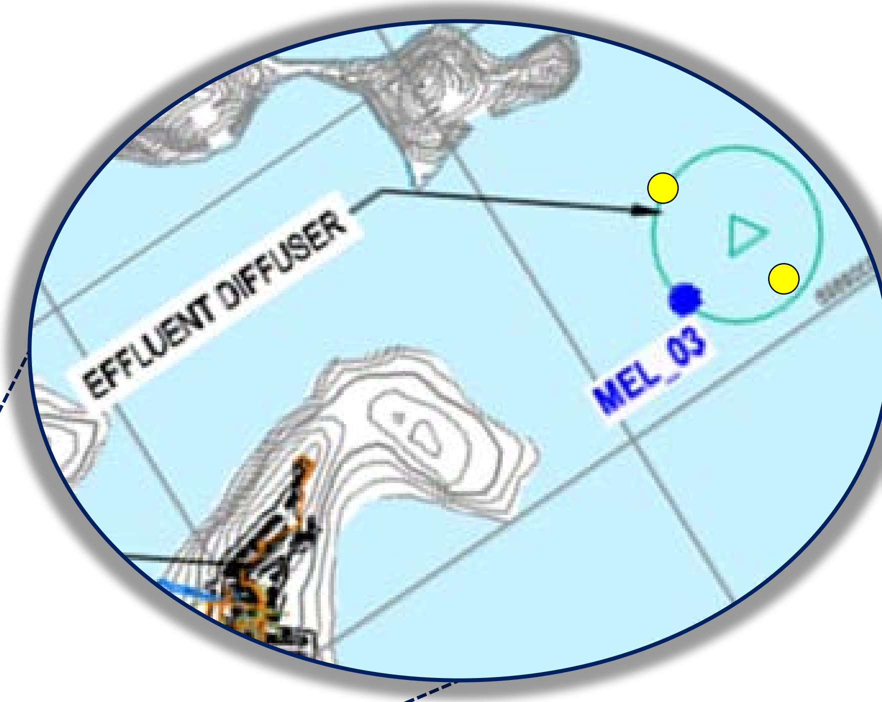
Request

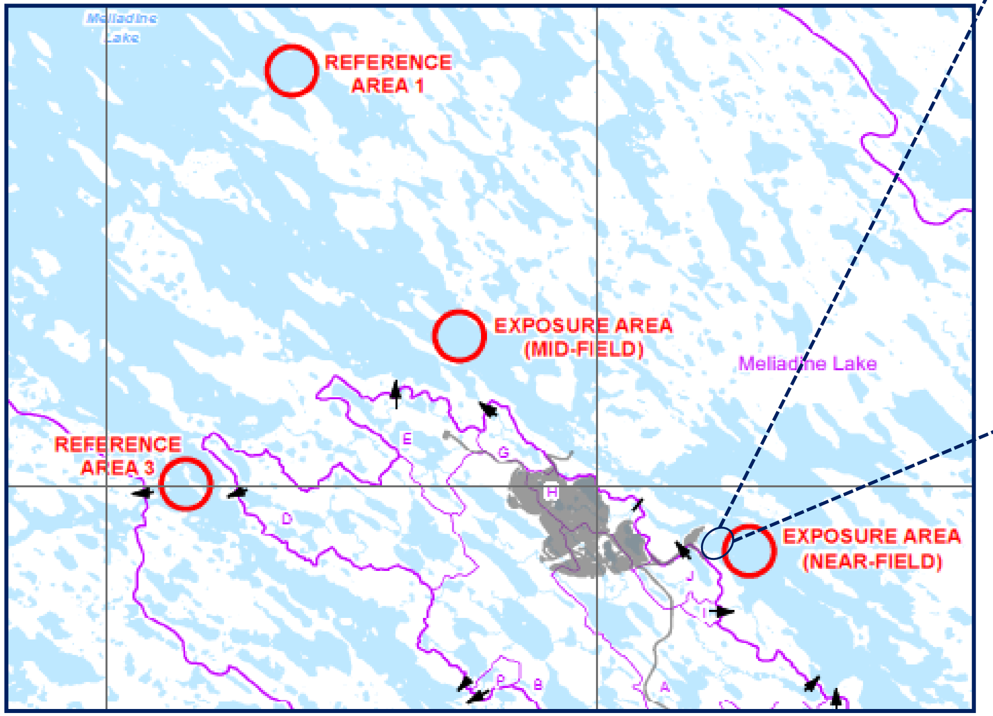
- We request that AEM increase the total number of AEMP sites in the near-field exposure area from 5 as indicated in AEMP to a total of 7 with three around the diffuser
- AEM commit to include 3 sites to triangulate the predicted mixing zone boundary 100m from the diffuser
  - i.e. sites at 120º, 240º and 360º, 100m from the center of the diffuser
  - Samples should be collected from the highest point of conductivity as determined by a water column profile

ᑐᒃᓯᕋᐅᑦ

- ᑐᒃᓯᕋᖅᐳᒍᑦ AEM ᑯᑦ ᐊᒥᓱᖑᓇᐊᕐᑯᑉᓗᒋᑦ AEMP ᖑᔪᑦ 5 ᓂᑦ, 7 ᓄᑦ, ᐱᖓᓱᑦ ᐃᕿᖅᑐᐃᕝᕕᐅᑉ ᖃᓂᒋᔮᓂᕐᑯᑉᓗᑎᒍᑦ.
- AEM ᐱᓂᐊᕐᓂᕐᑲᕐᑯᕙᕗᑦ 3 ᐊᕙᓗᓯᒪᕐᑯᑉᓗᒋᑦ ᐊᑯᑦᑎᕕᐆᓂᐊᖅᑐᒥᒃ 100 ᒦᑕᒥᒃ ᐅᖓᓯᖕᓂᕐᑲᕐᓗᒋᑦ ᐃᕿᖅᑐᐃᕝᕕᖕᒥᒃ.
  - ᓲᕐᓗ ᐊᑕᐅᓯᖅ 120, 240, ᐊᒻᒪ 360, ᒦᓪᓗᑎᒃ 100 ᒦᑕᒥᒃ ᐅᖓᓯᖕᓂᕐᑲᕐᓗᑎᒃ ᑕᓯᕋᐅᑉ ᐃᕿᖅᑐᐃᕝᕕᐅᓂᐊᖅᑑᑉ ᕿᑎᖓᓐᓂᑦ.
  - ᖃᐅᔨᓴᐅᑏᑦ ᑲᑎᑕᐅᖅᑲᑦᑕᕐᓗᑎᒃ ᕐᑯᑦᑎᖕᓂᖅᐹᖓᓂᑦ ᐃᒪᖅᑲᕐᓂᐅᑉ

KIA-WL-07 Continued
Site Locations





●	MEL_03
●	MEL_XX

KIA-WL-08: Sample Locations at Rankin Inlet
KIA-WL-08: ᖃᐅᔨᓯᐊᕐᓃᑦ ᑲᖏᖅᓱᓂᕐᒥ

Issue	ᐃᓱᒫᓘᑦ
• Shipping and potential associated accidents may change water quality near the Itivia Harbour • AEM has not included sample locations at Itivia Harbour in the application	• ᐅᒥᐊᕐᔪᐊᒃᑯᑦ ᐊᒡᔭᕐᑐᐃᓂᖅ ᐊᒻᒪ ᐱᕐᕈᓗᐊᕐᑭᓂᖅ ᐊᓯᔾᔨᕚᓇᕐᒪᑦ ᐃᒪᖓᓂᒃ ᐃᑎᕚᑉ • AEM ᖃᐅᔨᓴᕐᓂᕐᓂᒃ ᑎᕕᓂᐊᓂᑦ ᐃᓚᐅᑎᑦᑎᓚᐅᖏᓚᑦ ᑐᑭᓴᐅᑎᒥᖕᓂᑦ

KIA-WL-08: Sample Locations at Rankin Inlet
KIA-WL-08: ᖃᐅᔨᒋᐊᖅᓃᑦ ᑲᖕᒋᖅᖠᓂᖅᒥ

Request	ᑐᒃᓯᕋᐅᑎᑦ

- AEM should commit to include sample locations near the Itivia Harbour to track any negative impacts associated with mine related activity- particularly those related to shipping and fuel offloading
  - Program should allow AEM to distinguish their activities from other users of the harbour

- AEM ᑯᑦ ᐃᓚᐅᑎᑦᑎᓂᐊᕐᓂᕋᕐᓗᑎᒃ ᓇᓗᓇᐃᖅᓯᒪᓇᔭᕐᒪᑕ ᐃᑎᕕᐊᒥᑦ ᖃᐅᔨᓴᕈᓐᓇᕐᑯᑉᓗᒋᑦ ᓈᒻᒪᖕᒋᑦᑐᖅᑕᖃᓕᖕᒋᒻᒪᖕᒑᑦ ᐅᔭᕋᒃᑕᕐᓂᖅ ᐱᔾᔪᑎᒋᑉᓗᒍ ᐱᓗᐊᖅᑐᒥᒃ ᐅᒥᐊᕐᔪᐊᕐᓄᑦ ᐊᒻᒪ ᓂᐅᕋᐃᓂᖅ ᐅᖅᓱᐋᓗᓐᓂᒃ
  - ᓇᓗᓇᐃᖅᓯᒪᓇᔭᕐᒪᑦ AEM ᐱᓕᕆᐊᖕᒋᑦ ᐊᒻᒪ ᐊᔾᔨᒌᖕᒋᓐᓂᖕᒋᑦ ᐊᓯᖕᒋᓐᓄᑦ ᐊᑐᖅᑕᐅᓂᖅ ᐃᑎᕕᐊᑉ ᑲᖕᒋᖅᖢᐊ

KIA-WL-10: Quality Control Responses
KIA-WL-10: ᓈᒻᒪᒃᑲᓗᐊᕐᒪᙶᑕ ᐱᓕᕆᐊᖑᔪᑦ ᖃᐅᔨᓴᕐᓂᖏᓐᓄᑦ ᑭᐅᔾᔭᐅᔪᓐᑦ

Issue	ᐃᓱᒫᓗᑦ
AEM has not provided a response framework for duplicate samples with medium and low analytical precision	AEM ᑯᑦ ᑐᓂᓯᓚᐅᖏᑦᑐᑦ ᖃᓄᐃᓐᓂᐊᕐᒪᙶᕐᒥᒃ ᒪᕐᕈᓚᖓᔪᓂᒃ ᖃᐅᔨᓴᕐᓂᕐᓂᒃ ᐊᑯᓪᓕᖅᐹᖑᔪᓂᒃ ᐊᒻᒪ ᐊᑦᑎᖕᓂᖅᐹᖑᔪᓂᒃ ᓇᓗᓇᐃᒃᑯᑕᓕᖕᓂᒃ.
We are concerned low quality data will be incorporated into the assessment of mine related impacts	ᐃᓱᒫᓗᑎᖃᖅᐳᒍᑦ ᓴᖅᑭᑦᑐᖃᕐᔭᕐᓂᖏᓐᓂᒃ ᒥᑭᓂᖅᐹᒥᒃ ᑐᑦᓯᕋᐅᑎᓂᒃ ᐊᑐᕆᓗᓐᓇᕐᓂᖏᓐᓂᒃ ᕿᒥᕐᕈᓕᕚᙵᑕ ᐅᔭᕋᒃᑕᓇᐊᑉ ᐊᒃᑐᖅᑕᖏᓐᓂᒃ ᐃᓄᐊᖏᓕᑰᕈᑕᐅᔪᓂᒃ
This may reduce the capacity for the Aquatic Environment Monitoring Program to identify and mitigate impacts to the receiving environment	ᑖᒻᓇ ᒥᒃᓵᓕᑎᑦᑎᔪᓐᓇᕐᒪᑦ ᐱᓕᕆᐊᒍᔪᓐᓇᖅᑐᓂᒃ ᐃᒪᕐᒥᐅᑕᓄᑦ ᐊᕙᑎᖏᓐᓂᒃ ᖃᐅᔨᓴᕈᓐᓇᕐᓂᕐᒥᒃ ᓇᓗᓇᐃᖅᑐᓂ ᐃᒃᐱᖕᓇᕐᓂᖅᓯᖏᓐᓂᒃ ᐊᕙᑎᖏᓐᓄᑦ ᐊᒃᑑᔪᓂᒃ

KIA-WL-10: Quality Control Responses
KIA-WL-10: ᓇᒻᒪᒃᑲᓗᐊᕐᒪᖔᑕ ᐱᓕᕆᐊᖑᔪᑦ ᖃᐅᔨᓴᕐᓂᖏᓐᓄᑦ ᑭᐅᔾᔪᑎᑦ

Request	ᑐᒃᓯᕋᐅᑦ

- Duplicate samples are collected to help detect problems.
- they are *"…used to estimate sampling and laboratory analysis precision."* (US EPA)
- AEM must provide a response framework for low and medium precision data
  - Validation of sample collection techniques and precision,
  - Validation of analytical precision, and
  - Whether all samples from the suspect field event or those collected from a given field team be excluded from the dataset
- AEM has indicated they have updated their response to be presented during the technical hearings

- ᒪᕿᓕᖕᒐᓗᒋᑦ ᖃᐅᔨᓴᕈᑎᑦ ᑲᑎᑕᐅᓚᒃᑐᑦ ᓴᖅᑭᑎᑦᑎᔪᓇᕐᑯᐸᓗᒋᑦ ᓇᒻᒪᖏᑦᑐᓂᒃ.
- ᐊᑐᖅᑕᐅᓂᐊᖅᑐᑦ"… ᐊᑐᖅᑐᑦ ᒥᒃᓯᖃᕈᓐᓇᕐᑯᐸᓗᒋᑦ ᖃᐅᔨᓴᕐᓂᕐᓄᑦ ᖃᓂᖅᑯᑦᑎᔪᓇᕐᑯᐸᓗᒋᑦ."
- AEM ᓴᖅᑭᑦᑎᔭᕆᐊᖃᖅᐳᑦ ᑭᐅᔾᔪᑎᒥᒃ ᐱᓕᕆᐊᖑᓂᐊᖅᑐᓂᒃ ᒥᑭᓂᖅᐸᖓᓄᑦ ᐊᒻᒪ ᐊᑯᓐᓂᖅᐹᖓᓄᑦ ᖃᐅᔨᓴᕐᓂᕐᓂᒃ
  - ᓱᓕᓂᖏᑦ ᖃᐅᔨᓴᕐᓃᑦ ᑲᑎᑕᐅᓂᖏᑦ ᐊᒻᒪ ᖃᓄᖅ ᑲᑎᑦᑎᓯᒪᖔᑕ
  - ᓱᓕᓂᖏᑦ ᖃᐅᔨᓴᕐᓂᖏᑦᑕ ᒥᒃᓵᓄᑦ, ᐊᒻᒪ
  - ᑕᒪᕐᒥᒃ ᑲᑎᑕᐅᔪᑦ ᖃᐅᔨᓴᕐᓃᑦ ᐃᓕᒪᒋᔭᐅᔫᒥᑦ ᐊᓯᖏᓐᓂᓪᓗᓐᓃᑦ ᐃᓚᐅᖏᒃᑲᓗᐊᕐᒪᖔᑖ ᕿᒥᕐᕈᓂᐅᓚᐅᖅᑐᓂᑦ
- AEM ᐅᕐᑲᖅᓯᒪᔪᑦ ᓄᑕᐅᓯᕆᐊᖅᓯᒪᓂᕋᖅᓗᒍ ᑭᐅᔾᔪᑎᑎᒃ ᐊᒻᒪ ᓴᖅᑭᓐᓂᐊᕐᓂᕋᖅᓗᒍ ᑐᓴᕋᓱᒃᓂᐅᓂᐊᖅᑐᒥ

KIA-WL-21: Landfarm Microbial Degradation Rates
KIA-WL-21: ᓄᓇᐊᒥ ᐱᕈᖅᑐᑦ ᖁᐱᕆᐃᑦ ᓱᕈᖅᐸᓪᓚᐊᓂᖏᑦ

Issue

- We are concerned with the biodegradation rates expected at AEM's proposed landfarm
  - Landfarms will be relied on to treat contaminants such as oils and grease in soil
- AEM provided reference to Meadowbank and results from Resolution Island
  - The area surrounding Resolution Island is dominated by a marine environment and may not be applicable
- Overarching concern is preventing residual effects at the landfarm

ᐃᓱᒫᓗᑦ

- ᐃᓱᒫᓗᑎᖃᕋᑕ ᖁᐱᕆᐃᑦ ᓱᕈᖅᐸᓪᓚᐊᓂᐊᕐᓂᖏᓐᓂᒃ AEMkut ᓄᐊᒧᑦ ᓈᕕᑦᑕᕙᒋᓂᐊᖅᑕᖓᑕ ᒥᒃᓵᓄᑦ.
  - ᓄᓇᐃᑦ ᐊᑐᖅᑕᐅᓂᐊᕐᒪᑕ ᓱᕈᔪᖃᖅᑐᓂᒃ ᐅᖅᓱᐋᓗᖃᖅᑐᓂᒃᓗ ᓴᓗᒻᒪᕐᕕᐅᖃᑦᑕᕐᓂᐊᕐᓗᑎᒃ
- AEMkut ᓴᖅᑭᑎᓪᐅᖅᑐᑦ ᐊᐳᖅᑎᓐᓈᖅᑐᒥ ᐱᓕᕆᐊᓂᒃ ᐊᒻᒪ ᕿᓴᓗᑎᐊᓐ ᕿᑭᖅᑕᖓᓂᑦ
  - ᕿᑭᖅᑕᒥᑦ ᓴᖅᑭᑕᖅ ᐃᒪᕐᒥᐅᑕᓄᑦ ᐊᕙᓗᔭᐅᓯᒪᖓᑦ ᐋᑎᖃᕋᔭᖅᑰᖏᑦᑐᖅ ᐅᕙᑉᑎᓐᓄᑦ
- ᐃᓱᒫᓗᑎᒻᒪᕆᐅᑉᐸᖅ ᓈᒻᒪᖏᑦᑐᓂᒃ ᐃᒃᐱᖕᓇᕐᓂᖃᖁᔨᖏᓐᓇᖅ ᓄᓇᒥ

KIA-WL-21: Landfarm Microbial Degradation Rates
KIA-WL-21: ᓄᓇᐊᒥ ᐱᕈᖅᑐᑦ ᖁᐱᕐᕈᐃᑦ ᓱᕈᖅᐸᕐᓚᐊᓂᖅᑎᑦ

Request	ᑐᒃᓯᕋᐅᑦ
AEM intends to provide a discussion during the technical hearings on: • Applicability of data from Resolution Island • Biodegradation rates experienced at Meadowbank • Practices which may improve biodegradation rates at Meliadine	AEM ᐅᖃᐅᓯᖃᕈᒪᔪᖅ ᑐᓴᕋᓱᓪᖅᐸᑕ ᑕᒪᑐᒪ ᒥᒃᓵᓄᑦ ᐅᑯᐊ ᐱᔾᔪᑎᒋᔪᑎᑦ: • ᖃᓄᖅ ᕋᓴᑐᑎᐊ ᕿᑭᖅᑕᖓᓂ ᐃᑉᐱᙵᕐᓂᖅᑲᕐᓂᐊᖅᐸ • ᖁᐱᕐᕈᐃᑦ ᓱᕈᖅᐸᕐᓚᐊᓂᖅᑎᑦ ᖃᓄᐃᑉᐸᑦ ᐊᐳᖅᑎᓅᖅᑐᒥ • ᐊᑐᖅᑕᐅᔪᓐᓇᖅᑐᑦ ᑕᓯᕐᔪᐊᕐᒥ ᖁᐱᕐᕈᐃᑦ ᐱᕚᓪᓕᕈᓐᓇᕐᑯᑉᐳᑎᑦ

RESOLVED ISSUES

ᐊᖕᒋᖅᑲᑎᒌᒍᑕᐅᓚᐅᖅᑐᑦ ᐃᓱᒫᓗᑎᕙᓃᑦ

KIA-WL-01: Segregation of Overburden
KIA-WL-01: ᓴᓂᕐᕙᖅᑕᐅᓂᖏᑦ ᓄᓇᐃᑦ ᖄᖏᑦ ᐊᑐᖏᑕᑦ

Issue

- AEM intends to store *"about 0.1 Mt"* in the temporary stockpile for use *"as TSF closure cover material"*.
- We are concerned that segregated overburden is only intended for use as part of the TSF closure strategy
  - Overburden is a source of native plant material that can also be used in the closure of roads, pads and other site infrastructure

ᐃᓱᒫᓗᑦ

- AEM ᓴᓂᕐᕙᖅᓯᕙᒪᖓᑕ ᐃᒪᖄ 0.1 Mt ᒥᒃ ᑲᑎᑎᕕᐅᓂᐊᖅᑐᒥ ᐊᑐᕈᒫᕐᓗᒍ ᐅᒃᑯᐊᕆᐊᖅᐸᑦ ᐅᔾᖃᒃᑕᕆᐊᖅ.
- ᐃᓱᒫᓗᑎᖃᖅᐳᒍᑦ ᓴᓂᕐᕙᖅᓯᒪᕙᖅ ᓯᐅᖅᑕᕐᓂᑯ ᐊᑐᖅᑕᐅᑐᐃᓐᓇᕐᓂᐊᕐᓂᖓᓄᑦ ᐃᓚᖓ ᒪᑐᕆᐋᓕᕐᓂᖅᐸᑦ ᑭᓯᐋᓂ ᐅᔾᖃᒃᑕᕆᐊᖅ
  - ᑕᒪᓐᓇ ᐱᕈᖅᑐᖅᑯᖅᑐᕕᓂᖅ ᓯᐅᖅᑕᕐᓂᑯ ᓄᓇᒥᒃ ᐃᓗᓕᕐᖃᕐᒪᑦ ᐊᒻᒪ ᐊᑐᖅᑕᐅᕙᓐᖅᓗᓂ ᐅᒃᑯᐊᖅᓯᓂᕐᒧᑦ ᐊᑉᕐᑯᑎᓂᒃ, ᐱᕐᑯᑎᖃᕐᕕᓂᕐᓂᒃ ᐊᒻᒪ ᐊᓯᖏᓐᓄᑦ

KIA-WL-01: Segregation of Overburden
KIA-WL-01: ᓴᓂᕐᕆᖅᑕᐅᓂᖏᑦ ᓄᓇᐃᑦ ᖃᖏᑦ ᐊᑐᖏᑦᑐᑦ

Resolution	ᐊᖅᑭᒍᑖ
AEM commits to: Minimize the loss of overburden wherever possible to allow for its use as closure material Investigate storage options for segregated overburden Include a section in the next iteration of the closure and reclamation plan indicating other uses for overburden at closure in addition to capping the TSF Investigate: • Whether the 0.1 Mt of overburden is sufficient to cap the TSF and support the closure of other site infrastructure	AEM ᐱᓂᐊᕐᓂᕐᑲᖅᐳᖅ: ᒥᑭᓂᖅᐹᒥᒃ ᐊᓯᐅᔨᓂᕐᑲᕐᑯᑉᓗᒍ ᐃᐸᐧᕐᑲᕐᓂᐅᐧᓂᒃ ᐱᕈᖅᑐᕐᑲᕈᓐᓇᕐᓂᕐᓂᒃ ᐊᑐᕈᓐᓇᕈᒫᕐᓗᒋᑦ ᐅᒃᑯᐊᓇᐊᖅᐸᑦ ᐅᔾᕋᒃᑕᕐᕕᒃ ᕿᓂᕐᓂᖅ ᖃᓄᖅ ᑐᕐᑰᒪᑎᐊᕋᔭᕐᒪᖔᑦ ᐊᑐᖏᓐᓂᖓᓐᓂ ᓄᓇ ᐃᓗᓕᕐᑲᕐᓗᒍ ᑭᖑᓪᓕᕐᒥ ᐅᕐᑲᐅᓯᕐᑲᓕᕈᐸᑕ ᐅᒃᑯᐊᕐᓂᓇᐧᒫᖅᑍᓐᓂᒃ ᐊᒻᒪ ᓄᓇᐅᐸ ᐅᑎᖅᑎᑕᐅᓂᓇᐧᒪᖅᑕᖖᒋᓂᒃ ᖃᓄᐃᓕᐅᕐᓂᓇᐧᒪᖅᑕᖖᒋᓂᒃ ᖃᓄᖅ ᐊᑐᖅᑕᐅᐧᒫᕐᒪᖔᑖ ᖁᓕᖅᑐᖅᑕᐅᓕᖅᐸᑦ ᐅᔾᕋᒃᑕᕐᕕᕕᓂᖅ ᐊᓯᖏᓐᓄᓪᓗ ᐊᑑᑎᒃᓴᐃᑦ ᕐᑲᐅᔨᓴᕐᓂᖅ: • ᑖᒻᓇ 0.1ᒻᑦ ᖄᕕᓂᖓ ᓄᓇᐅᑉ ᓈᒻᒪᓂᐊᕋᓗᐊᕐᒪᖔᑦ ᐊᑐᖅᑕᐅᓕᖅᐸᑦ ᒪᑐᓕᖅᑎᓪᓗᒍ ᐅᔾᕋᒃᑕᓇᐊᕐᑲᕐᕕᒃ

KIA-WL-02: Additional Cover Material and Re-vegetation
KIA-WL-02: ᓄᓇᒥ ᐱᕈᖅᑐᑦ ᓄᓇᐃᑦ ᐱᕈᖅᑐᓕᓗ ᒥᒃᓵᓄᑦ

Issue	ᐃᓱᒪᓗᑦ
• We expressed concern with the timeline required for revegetation of the site after disturbance • AEM provided estimates with relevant case studies	• ᐃᓱᒪᓗᑎᖃᓚᐅᕋᑉᑕ ᐊᑯᓂᐅᓂᓇᓂᐊᖅᑕᕐᕕᓂᒃ ᓄᓇᒥ ᐱᕈᖅᑐᑦ ᒥᒃᓵᓄᑦ ᐊᒃᑐᖅᑕᐅᓚᐅᖅᑎᓪᓗᒋᑦ • AEM ᓴᖅᑭᑦᑎᓚᐅᖅᐳᑦ ᖃᓂᖅᑯᑦᑎᔪᓂᒃ ᐱᕈᒃᑲᓐᓂᕋᔅᓂᕐᒋᑦᑕ ᒥᒃᓵᓄᑦ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᓂᑯᓂᒃ

KIA-WL-02: Additional Cover Material and Re-vegetation
KIA-WL-02: ᓄᓇᒥ ᐱᕈᖅᑐᑦ ᓄᓇᐃᑦ ᐱᕈᖅᑐᓕᓗ ᒥᒃᓵᓄᑦ

Resolution	ᐋᖅᑭᒋᐊᕈᑏᑦ

- AEM has committed to generate site specific revegetation information through targeted studies
- AEM is clarifying the feasibility of lichens recolonizing the disturbed areas based on the best available scientific understanding at this time
  - AEM is working with the University of Saskatoon to provide site specific revegetation data

- AEM ᓴᖅᑭᑦᑎᓂᐊᕐᓂᕆᖅᑐᑦ ᐱᕈᖅᑐᖃᕐᓂᐅᑉ ᒥᒃᓵᓄᑦ ᑐᕌᖅᑐᓂᒃ ᐱᓕᕆᐊᖑᒥ ᖃᐅᔨᓴᕐᓂᒃᑯᑦ
- AEM ᓇᓗᓇᐃᕆᓂᐊᓪᓚᐊᔾᔪᑦ ᑎᖓᐅᔭᐃᑦ ᐱᕈᖅᐸᓪᓚᐊᔾᔨᓇᕐᓂᖏᑦᑕ ᒥᒃᓵᓄᑦ ᐊᐅᓚᔅᓴᒃᑕᐅᓯᒪᓂᑯᑦ ᓄᓇᐃᑦ ᒥᒃᓵᓄᑦ ᕿᒥᕐᕈᐸᓗᑎᒃ ᑕᒪᑐᒪ ᒥᒃᓵᓄᑦ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᓂᑯᓂᒃ
- AEM ᐱᓕᕆᖃᑎᖃᖅᑐᖅ ᓴᓂᑰᓐ ᓯᓚᑦᑐᖅᓴᕐᕕᖓᓂᒃ ᓄᓐᒥ ᐱᕈᖅᑐᑦ ᒥᒃᓵᓄᑦ
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KIA-WL-03: Water Balance Assumptions
KIA-WL-03: ᐃᒪᐅᑉ ᐊᐅᓚᓂᖅᑕᑕ ᒥᒃᓵᓄᑦ ᐃᓱᒪᓕᐊᑦ

Issue	ᐃᓱᒫᓗᑦ
AEM had only presented a water balance for a mean precipitation year scenario	AEM ᓴᖅᑭᑦᑎᑐᐃᓐᓇᓚᐅᕐᒪᑦ ᐃᒪᖅᑐᓂᐅᑉ ᒥᒃᓵᓄᑦ ᐅᑭᐅᓗᒃᑖᒍᑦ ᑕᐅᑐᖅᑯᖅᑲᓗᑎᒃ

KIA-WL-03: Water Balance Assumptions
KIA-WL-03: ᐃᒪᐅᑉ ᐊᐅᓚᓂᖓᑕ ᒥᒃᓵᓄᑦ ᐃᓱᒪᓕᐊ

Resolution	ᐊᖏᕈᑕᐅᓚᐅᖅᑐᖅ
AEM has provided a memo outlining two additional scenarios on October 1, 2015 • 1:100 wet precipitation • 1:100 dry precipitation This has alleviated our concerns	• AEM ᑐᓂᓯᓚᐅᖅᑐᖅ ᑎᑎᖅᑲᒥᒃ ᓇᓗᓇᐃᕆᔪᒥᒃ ᒪᕿᒃᑲᓐᓃᖕᓂᒃ ᑕᐅᑐᙶᕆᐅᑉᓯᓂᒃ ᐊᒃᑐᐸ 1,2015ᒥ • 1:100 ᕿᐅᓯᕐᓇᖅᑎᓪᓗᒍ ᒥᐊᖅᑐᓂᖅ • 1:100 ᐸᓂᕐᓇᖅᑎᓪᓗᒍ ᐃᒪᖅᑐᓂᖅ ᑖᒻᓇ ᐃᓱᒫᓗᑎᑉᑎᙱᓂᒃ ᐊᖅᑮᓚᐅᖅᑐᖅ

KIA-WL-04: Incorporation of Inuit Qaujimajatuqangit into Monitoring Activities
KIA-WL-04 ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᑐᖃᖕᒋᑦᑕ ᐊᑐᖅᑕᐅᓂᖕᒋᑦ ᖃᐅᔨᓴᕐᓂᕐᓂ

Issue	ᐃᓱᒫᓘᑦ
AEM had not included information outlining how Inuit Qaujimajatuqangit has been incorporated into ongoing monitoring activities	AEM ᐃᓚᐅᑎᑦᑎᓚᐅᖕᒋᒻᒪᑦ ᖃᓄᖅ ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᑐᖃᖕᒋᑦ ᐊᑐᖅᑕᐅᖕᒪᖖᑖ ᖃᐅᔨᓴᕐᓂᕐᓂ

KIA-WL-04: Incorporation of Inuit Qaujimajatuqangit into Monitoring Activities

KIA-WL-04 ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᑐᖃᖕᒋᑦᑕ ᐊᑐᖅᑕᐅᓂᖕᒋᑦ ᖃᐅᔨᓴᕐᓂᕐᓂ

Resolution	ᐊᖏᖃᑎᒌᒍᑕᐅᓚᐅᖅ

- Through the Inuit Impact Benefit Agreement, AEM is committed to work with the KIA to develop techniques that better use Inuit Qaujimajatuqangit to monitor and report to the community
- AEM has committed to:
  - Embed an Inuit Qaujimajatuqangit holder with the aquatic monitoring team
  - Engage with the KIA in Q3 or Q4 of 2016 to further develop Inuit Qaujimajatuqangit aquatic monitoring methods

- ᐃᓄᐃᑦ ᐊᒃᑐᖅᑕᐅᓂᖕᒋᓐᓄᑦ ᐊᖏᕈᓯᐅᖅᓯᒪᔪᑉ ᒥᒃᓵᓄᑦ, AEM ᐱᓂᐊᕐᓂᖃᖅᐳᖅ ᐱᓕᕆᖃᑎᖃᕐᓂᐊᕐᓂᕐᒥᒃ ᑮ ᐊᐃ ᐃ ᑯᓐᓂᒃ ᓴᖅᑭᑎᓂᐊᕐᓂᕐᒥᒃ ᐱᐅᓂᖅᓴᒥᒃ ᐊᑐᕐᓂᕐᒥᒃ ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᑐᖃᖕᒋᓐᓂᒃ ᖃᐅᔨᓴᕆᕕᖓᒐ ᐊᒻᒪ ᑐᓴᖅᑎᑦᑎᓂᐊᕈᑎᒃ ᓄᓇᓕᖕᒥᒃ
- AEM ᐱᓂᐊᕐᓂᖃᖅᐳᖅ :
  - ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᑐᖃᖕᒋᓐᓂᒃ ᐃᓗᓕᖃᕐᑯᑦᑐᒍ ᐃᒪᕐᒥᐅᑕᐃᑦ ᒥᒃᓵᓄᑦ ᖃᐅᔨᒪᔨᓄᑦ
  - ᐱᓕᕆᖃᑎᒋᓗᒋᑦ ᑮ ᐊᐃ ᐃ ᑯᑦ Q3 ᒥ ᐅᕝᕙᓗᓐᓃᑦ Q4 ᒥ 2016 ᒥ ᐱᒋᐊᒃᑲᓐᓂᕐᑯᑦᑐᒋᑦ ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᑐᖃᖕᒋᑦ ᐃᒪᕐᒥᐅᑕᐃᑦ ᖃᐅᔨᓴᖅᑕᐅᓂᖕᒋᑦᑕ ᒥᒃᓵᓄᑦ

KIA-WL-09: Plume Delineation Model Assumptions KIA-WL-09 ᓄᓇᐅᑉ ᑕᐅᑦᑐᓇᔫᒫᖅᑕᖕᒐᑕ ᑎᑎᕋᐅᓯᖅᓯᒪᔪᑦ ᐃᓱᒪᒃᓴᓕᐊᑦ

Issue

- AEM had not provided full rationale for each CORMIX input used to model the effluent plume in Meliadine Lake
- We were also concerned with their input for ambient temperature
  - Discharges will occur in the open water season
  - Inputs of ambient temperature has been calculated using data from June and July resulting in an input of 13.5°C
  - The temperature does not capture the full range of potential temperatures and does not accurately estimate the density of colder, denser water

ᐃᓱᒫᓗᑦ

- AEM ᐃᓗᐃᑦᑐᒥᒃ ᐅᓂᑉᑳᓚᐅᖅᓯᒪᙱᑦᑐᑦ ᖃᓄᖅ ᐊᑯᓯᒪᓂᐊᕐᒪᖔᑕ ᓄᓇᐃᑦ ᐊᑐᖅᑕᐅᔫᖅᑐᑦ ᑕᓯᕐᔪᐊᕐᒥ ᐅᑎᖅᑎᖅᑕᐅᓚᖅᐸᑦ ᓄᓇᕕᓂᖓ
- ᐃᓱᒫᓗᑎᕐᑲᓇᕗᒍᑦ ᓯᓚᐅᑉ ᒥᒃᓵᓄᑦ ᐅᕐᑲᐅᓯᖏᑦᑕ
  - ᐃᒪᕐᓗᖕᓂᒃ ᑯᕕᔪᕐᑲᑦᑕᕐᓂᐊᕐᒪᑕ ᐊᐅᔭᒃᑯᑦ
  - ᓯᓚᐅᑉ ᒥᒃᓵᓄᑦ ᖃᐅᔨᓴᕐᓂᖏᑦ ᐊᑐᕐᒪᑕ ᔫᓂ ᒥᒃ ᐊᒻᒪ ᔪᓚᐄ ᒥᒃ ᐅᖅᑰᓇᕐᓂᕐᑲᕐᓂᐊᖅᖢᓂ 13.5 ᒥᒃ
  - ᐅᖅᑰᓇᕐᓂᖓ ᑎᒍᓯᓯᒪᙱᒻᒪᑦ ᐊᔾᔨᒌᙱᑦᑐᓂᒃ ᓯᓚᓂᒃ ᐊᒻᒪ ᑐᖖᐅᑦᑎᓯᒪᑉᓗᓂ ᓯᓚᒥᒃ ᐃᒃᐲᕐᓇᕐᓂᖅᓴᐅᑎᓪᓗᒍ, ᐊᒻᒪ ᐃᒪᖅ ᑭᓂᕐᓂᖅᓴᐅᑎᓪᓗᒍ

KIA-WL-09: Plume Delineation Model Assumptions
KIA-WL-09 ᓄᓇᐅᑉ ᑕᐅᕐᑐᓇᔮᖅᑕᖕᒐᑕ ᑎᑎᕋᐅᔭᖅᓯᒪᔪᑦ ᐃᓱᒪᒃᓴᓕᐊᑦ

Resolution	ᐊᖏᖅᑲᑎᒌᖕᓂᖅ
AEM has: • Provided additional model input information • Modeled effluent dispersion using colder temperature (4°C) and found the density change had *"little to no impact on the dilution factors or the conclusions"*	AEM ᐃᒪᓐᓇᐃᓯᒪᕗᖅ: • ᑕᑯᔭᒃᓴᒃᑲᓐᓂᖅᓂᒃ ᓴᖅᑭᑦᑎᓯᒪᕗᑦ • ᐃᒪᐃᑦ ᒥᒃᓵᓄᑦ ᓴᖅᑭᑦᑎᓯᒪᒃᑲᓐᓂᖅᐳᑦ ᐊᑐᖅᓱᓂᒃ ᐃᒃᐹᖅᓇᕐᓂᖅᓴᒥᒃ ᓯᓚ 4 ᒥᒃ ᐅᖅᑰᓂᖅᑲᖅᑎᓪᓗᒍ ᐊᒻᒪ ᑐᑭᓯᓚᐅᖅᐳᑦ ᐃᒪᐅᑉ ᑭᓂᕐᓂᐋ ᐃᒃᐱᖕᓇᕐᓂᖅᑲᓚᐅᖏᓚᖅ ᐃᕿᖅᑕᐅᓂᖓᓂᒃ ᐃᒪᕐᓘᑎᐅᑉ

KIA-WL-11: Significance Thresholds for Water Quality, Sediment Quality, and Fish Tissue Chemistry

KIA-WL-11 ᖃᐅᔨᒋᐊᕐᓂᑦ ᑐᙵᕕᒃᓴᖏᑦ ᐃᒪᕐᒧᑦ, ᑕᓱᕋᐅᑉ ᓇᑎᐋᑕ ᒥᒃᓵᓄᑦ ᓈᒻᒪᖕᓂᖏᑦ ᐊᒻᒪ ᐃᒪᕐᒥᐅᑕᐃᑦ ᐊᒥᕋᖏᑦᑕ ᒥᒃᓵᓄᑦ ᖃᐅᔨᓴᕐᓂᑦ

Issue	ᐃᓱᒫᓗᑦ
AEM has proposed three significance thresholds which do not directly address changes to water quality, quantity, flow, sediment quality or fish tissue chemistry Thresholds do not address the loss of cultural value to Inuit	AEM ᐱᖓᓱᓂᒃ ᑐᙵᕕᒃᓴᓂᒃ ᖃᐅᔨᒪᓂᕐᒧᑦ ᓴᖅᑭᑦᑎᔪᒪᖓᑕ ᔭᐅᔾᔪᑕᐅᓇᔾᖏᑦᑐᓂᒃ ᐃᒪᐅᑉ ᐊᓯᔾᔨᕋᔭᖅᐸᑦ ᐃᒪᑦᑎᐊᕚᐅᓂᐋ, ᑰᖕᓂᖓ, ᐃᒪᒃᑖᓂᖓ, ᓇᑎᐋ ᐱᐅᔪᓐᓂᕐᐸᓪᓚᐊᓂᖓ, ᐅᕝᕙᓗᓐᓃᑦ ᐊᒥᕋᕐᓗᓚᕋᔭᕐᓂᖏᑦ ᐃᖃᓗᐃᑦ. ᖃᐅᔨᒪᓂᖏᑦ ᐅᖃᐅᓯᖃᖏᒪᑕ ᐃᓂᐅᑦ ᐃᓅᓂᖏᓐᓄᑦ ᐊᒃᑐᐋᔪᓂᒃ

KIA-WL-11: Significance Thresholds for Water Quality, Sediment Quality, and Fish Tissue Chemistry KIA-WL-11

ᖃᐅᔨᒋᐊᖁᓃᑦ ᑐᙵᕕᒃᓴᖏᑦ ᐃᒪᕐᒧᑦ, ᑕᓱᖃᐅᑉ ᓇᑎᐋᑕ ᒥᒃᓵᓄᑦ ᓈᒻᒪᖕᓂᖏᑦ ᐊᒻᒪ ᐃᒪᕐᒥᐅᑕᐃᑦ ᐊᒥᕋᖏᑦᑕ ᒥᒃᓵᓄᑦ ᖃᐅᔨᓴᖁᓃᑦ

Resolution	ᐋᖅᑭᒋᐊᕈᑏᑦ

- The NWB should require AEM to host a working group to
  - Determine significance thresholds to specific aquatic VEC
  - Incorporate cultural value to Inuit in assessing project related changes to the environment
- This request is in line with AEM's commitment to collaborate with the KIA to modify the Aquatic Environment Monitoring Program and incorporate IQ into the monitoring programs
- This can be explored during the discussions committed to in KIA-WL-04

- ᐃᒪᓕᕆᔾᑯᑦ NWB ᑎᓕᓯᓇᔭᕐᒪᑕ AEM ᑯᓐᓂᒃ ᑎᒥᓕᐅᖁᔪᑦ ᐱᓕᕆᓂᐊᖅᑐᓂᒃ ᐅᑯᓂᖓ
  - ᓴᖅᑭᑦᑎᓗᑎᒃ ᐆᒃᑐᖃᐅᑎᒃᓴᓂᒃ ᖃᐅᒪᔾᔪᑕᐅᓂᐊᖅᑐᓂᒃ ᐃᒪᕐᒥᐅᑕᓄᑦ ᐱᕈᖅᑐᖏᓐᓄᓪᓗ
  - ᐃᓚᐅᑎᓪᓗᓐᒋᑦ ᐃᓄᐃᑦ ᐅᐱᒋᔭᖏᑦ ᖃᐅᔨᓴᓕᖌᒪᑕ ᐊᕙᑎᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖏᓐᓂᒃ.
- ᑖᓐᓇ ᑐᒃᓯᖃᐅᑦ ᒪᓕᒃᑐᖅ AEM ᑯᑦ ᐱᓂᐊᕐᓂᓇᔭᖕᒐᓂᒃ ᐱᓕᕆᖃᑎᖃᕐᓂᐊᕐᓂᕐᒥᒃ ᕿ ᐋᐄ ᐄ ᑯᓐᓂᒃ ᐋᖅᑭᒋᐊᖅᓯᓂᕐᒥᒃ ᐃᒪᕐᒥᐅᑕᐃᑦ ᖃᐅᔨᓴᕐᓂᖏᓐᓂᒃ ᐊᒻᒪ ᐃᐊᓗᑎᑦᑎᓂᕐᒥᒃ ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᑐᖃᖏᓐᓂᒃ ᕿᒥᕈᓂᐅᓂᐊᖅᑐᓄᑦ
- ᑕᒪᓐᓇ ᐅᖃᐅᓯᐅᕝᓇᖅᑐᖅ ᐅᖃᓪᓚᓯᑉᑕ ᐱᓂᐊᕐᓂᓴᑎᓐᓂ ᓇᓗᓇᐃᖅᓯᒪᕝᓂ KIA-WL-04 ᒥ.

KIA-WL-12: Fish Tissue Baseline
KIA-WL-12 ᐃᖃᓗᐃᑦ ᐊᒥᕋᖏᑦᑕ ᒥᒃᓴᓐᓄᑦ ᖃᐅᔨᒪᔭᐅᕙᓪᓕᖅᑐᑦ ᐆᒃᑐᕋᐅᑕᐅᔪᒃᓴᓕᐊᑦ

Issue	ᐃᓱᒫᓗᑦ
AEM committed to update the fish tissue baseline during the Nunavut Impact Review Board hearings	AEM ᓄᑕᐅᓯᕆᐊᖅᑎᑦᑎᓂᐊᓚᐅᖅᑐᑦ ᐃᖃᓗᐃᑦ ᐊᒥᕋᖏᑦᑕ ᒥᒃᓵᓄᑦ ᖃᐅᔨᒪᔭᒃᓴᓂᒃ ᓄᓇᕗᑦ ᕿᒥᕈᔨᖏᑦ ᓂᕿ ᑲᑎᒪᑎᑦᑎᑎᓪᓗᒋᑦ

KIA-WL-12: Fish Tissue Baseline

KIA-WL-12 ᐃᖃᓗᐃᑦ ᐊᒥᕋᖏᑦᑕ ᒥᒃᓴᓐᓄᑦ ᖃᐅᔨᒪᔭᐅᕙᒌᖅᑐᑦ ᐆᒃᑐᕋᐅᑕᐅᔪᒃᓴᓕᐊᑦ

Resolution

- AEM collected the fish tissue data in 2015
- AEM has committed to
  - Update the fish tissue baseline report prior to construction
  - Evaluate how the 2015 fish tissue data compares with the historical data and if it changes assumptions presented in the Environmental Impact Statement

ᐋᖅᑭᒋᐊᕈᑦ

- AEM ᐃᖃᓗᐃᑦ ᐊᒥᕋᖏᑦᑕ ᒥᒃᓵᓄᑦ ᖃᐅᔨᓴᕐᓂᖃᓚᐅᖅᑐᑦ 2015 ᒥ
- AEM ᐱᓇᐃᕐᓂᖃᖅᐳᖅ ᐅᑯᓂᖓ
  - ᓄᑕᐅᓯᒋᐊᖅᑎᑦᑎᓂᐊᖅᑐᑦ ᐊᒥᕋᐃᑦ ᒥᒃᓵᓄᑦ ᖃᐅᔨᓴᕐᓂᕐᒥᒃ ᓴᓇᒋᐊᓚᐅᖕᒋᓐᓂᕐᒥᓂᒃ
  - ᕿᒥᕐᕈᓂᐊᖅᑐᑦ ᖃᓄᖅ 2015ᒥ ᖃᐅᔨᓴᕐᓃᑦ ᐊᔾᔨᒌᖕᒋᓐᓂᖃᕐᒪᖔᑖ ᐊᒻᒪ ᐱᑕᖃᖅᐸᑦ ᖃᓄᐃᑦᑑᖕᒪᖔᑖ ᓴᖅᑭᖦᓗᒋᑦ ᐊᕙᑎᒧᑦ ᐃᒃᐱᖕᓇᕐᓂᐅᓂᐊᖅᑐᑦ ᐅᖃᖅᓯᒪᔪᑦ ᐃᓗᐃᐋᓂ

KIA-WL-13 and KIA-WL-14
KIA-WL-13 ᐊᒻᒪ KIA-WL-14

Issue

- Potential missing information was highlighted in our review of the Concordance Table regarding:
  - Additional Supplemental Information Guidelines
  - Plans for Abandonment and Restoration

ᐃᓱᒫᓗᑦ

- ᐃᓗᓪᓚᖅᑕᐅᖏᑦᑐᕕᓂᐅᑐᐃᓐᓇ ᓇᐊᖅᑲᖅᓂᖕᒐᓂᒃ ᐃᓗᐊᓃᑦᑕᓇᐊᓚᖕᓂᒃ ᓇᓗᓇᐃᖅᓯᒪᔪᖅᑲᓚᐅᕐᒪᑦ ᖄᒥᕿᑎᓪᓗᑕ ᐃᓗᓕᓇᔾᐅᔾᓇᐊᖅᑲᖅᑐᓂᒃ ᐱᔾᔪᑎᒋᐸᓗᒋᑦ ᐅᑯᐊ:
  - ᐃᓚᒋᐊᕈᑏᑦ ᑐᓴᖅᐸᓪᓕᕈᑏᑦ ᒪᓕᒐᒃᓴᐃᑦ
  - ᒪᓕᒐᒃᓴᐃᑦ ᕿᒪᒃᑕᐅᓇᔾᖅᓂᖕᒐᓄᑦ ᐊᒻᒪ ᐋᖅᑭᑦᑎᐊᖅᓂᖕᒐᓄᑦ

KIA-WL-13 and KIA-WL-14
KIA-WL-13 ᐊᒻᒪ KIA-WL-14

Resolution	ᐊᖅᑭᒋᐊᕈᑏᑦ
AEM has provided the required information	AEM ᑐᓂᔨᓚᐅᖅᑐᑦ ᐃᓗᓕᓇᔾᐅᔾᓇᐊᖃᖅᑐᓐᓂᒃ

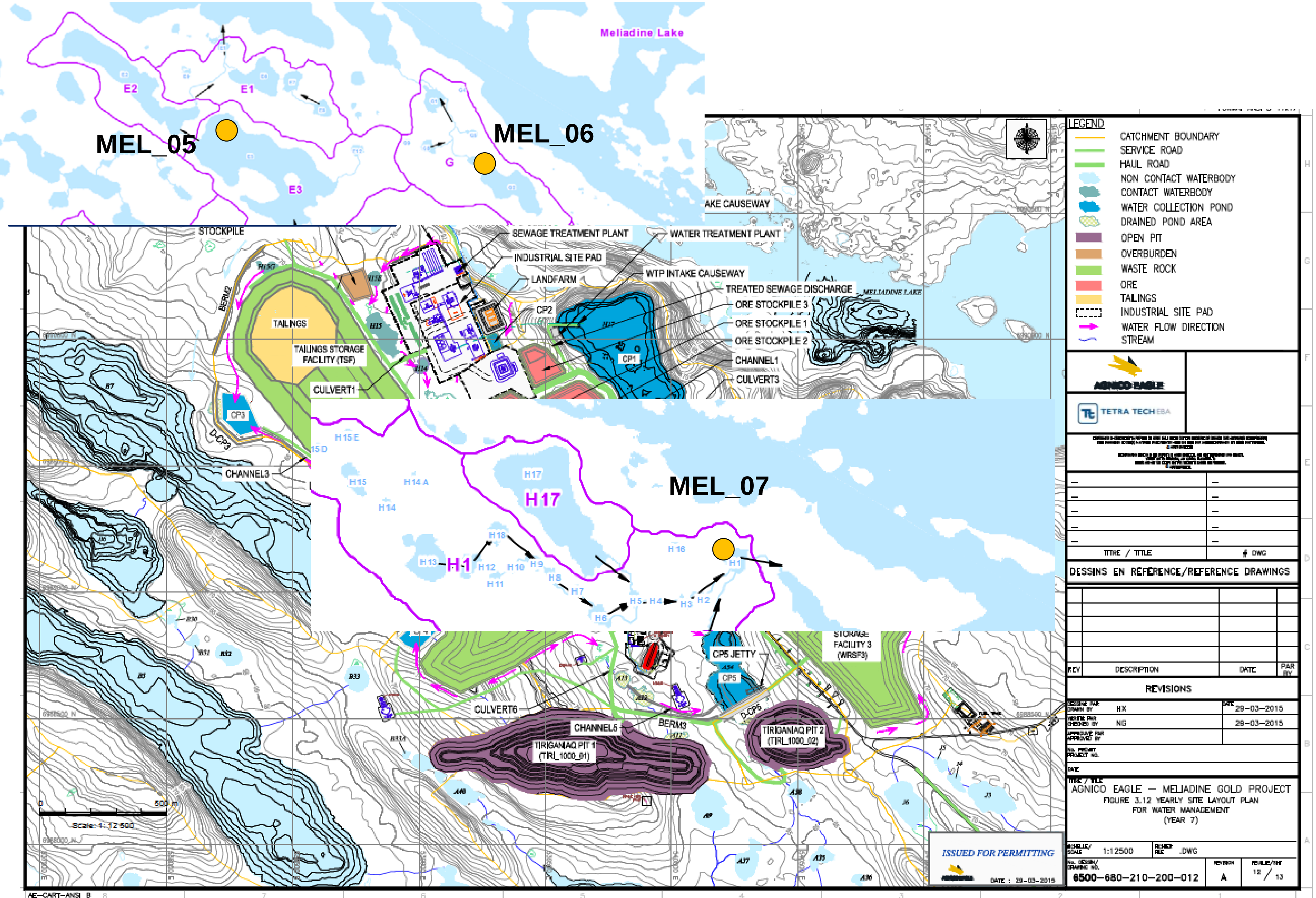
KIA-WL-15: Sample Station Categorization
KIA-WL-15: ᐆᒃᑐᕋᕐᕖᑦ ᐊᔾᔨᒌᖕᒋᓐᓂᖕᒋᑦ

Issue

- AEM categorized MEL-05, MEL-06 and MEL-07 as “verification samples”
- Verification samples are *“for operational and management purposes by Agnico Eagle”*
- General Aquatic samples are *“subject to compliance assessment to confirm sampling was carried out using established protocols, included quality assurance/quality control provisions, and addresses identified issues.”*
- KIA are concerned that these stations drain to Meliadine Lake and any problems detected should trigger management action

ᐃᓱᒫᓗᑦ

- AEM ᑎᑎᖅᓯᓚᐅᕐᒪᑕ MEL-05, MEL-06 ᐊᒻᒪ MEL-07 “ ᑐᑭᓯᒋᐊᕐᕕᒃᓴᐃᑦ ᐆᒃᑐᑏᑦ”
- ᑐᑭᓯᒋᐊᕐᕕᒃᓴᐃᑦ ᐆᒃᑐᑏᑦ ᐊᑐᓇᐊᕐᑲᕐᒪᑕ “ ᐊᐅᓪᓚᕐᓂᖕᒍᓄᑦ ᐊᒻᒪ ᐊᐅᓚᑦᑎᓂᖕᒍᓄᑦ ᐊᒡᓃᑯ ᐄᒍᑯᓐᓄᑦ”
- ᐃᒪᕐᒥᐅᑕᐃᑦ ᐆᒃᑐᑏᑦ ᐃᒪᐃᒻᒪᑕ “ ᐊᒃᑐᐊᖕᒪᑕ ᒪᓕᒃᑲᓗᐊᕐᒪᖕᒌᑕ ᖃᐅᔨᓴᕐᓂᕐᓄᑦ ᓇᓗᓇᐃᓕᓂᐊᕐᓗᑎᒃ ᖃᐅᔨᓴᕐᓂᖅ ᐊᑐᖅᑕᐅᓚᐅᕐᒪᖕᒌᑦ ᑕᐅᖅᓗᑎᒃ ᒪᓕᒃᑕᐅᓲᓂᒃ ᖃᐅᔨᓴᕐᓂᕐᒧᑦ, ᐃᓚᐅᑉᓗᒋᑦ ᐱᓕᕆᑦᑎᐊᕐᓂᖅ, ᐳᐃᔪᓂᖅ ᐊᑐᕐᓂᖅ ᐊᒻᒪ ᑐᕌᖅᑕᕐᓂᒃ ᓇᓗᓇᐃᓕᓇᓱᖕᓂᖅ”
- ᑮ ᐊᐄ ᐄᑯᑦ ᐃᓱᒫᓗᒃᑐᑦ ᑖᑉᑯᐊ ᖃᐅᔨᓴᕐᕖᑦ ᑰᖕᒪᑕ ᑕᓯᕐᔪᐊᕐᒧᑦ ᐊᒻᒪ ᓱᓇᒥᐊᖅ ᐅᓗᓇᐊᓇᖅᑐᖅ ᓴᖅᑭᑉᐸᑦ ᐅᐸᓗᖅᑕᐅᔭᓇᐊᓕᒃ ᐊᐅᓚᑦᑎᔨᓄᑦ


Meliadine Lake
MEL_05
MEL_06
MEL_07
E1
E2
E3
G
H17
H1
H15E
H15
H14A
H14
H13
H12
H11
H10
H9
H8
H7
H6
H5
H4
H3
H2
H16
H18
STOCKPILE
SEWAGE TREATMENT PLANT
INDUSTRIAL SITE PAD
LANDFARM
WATER TREATMENT PLANT
WTP INTAKE CAUSEWAY
TREATED SEWAGE DISCHARGE
ORE STOCKPILE 3
ORE STOCKPILE 1
ORE STOCKPILE 2
CHANNEL1
CULVERT3
CP1
CP2
CP3
D-CP3
BERM2
TAILINGS
TAILINGS STORAGE FACILITY (TSF)
CULVERT1
CHANNEL3
STORAGE FACILITY 3 (WRSF3)
CP5 JETTY
CP5
D-CP5
CULVERT6
CHANNEL5
BERM3
TIRIGANIAQ PIT 1 (TIRI_1000_01)
TIRIGANIAQ PIT 2 (TIRI_1000_02)
Scale: 1:12 500
ISSUED FOR PERMITTING
LEGEND
CATCHMENT BOUNDARY
SERVICE ROAD
HAUL ROAD
NON CONTACT WATERBODY
CONTACT WATERBODY
WATER COLLECTION POND
DRAINED POND AREA
OPEN PIT
OVERBURDEN
WASTE ROCK
ORE
TAILINGS
INDUSTRIAL SITE PAD
WATER FLOW DIRECTION
STREAM
AGNICO EAGLE
TETRA TECH EBA
DESSINS EN RÉFÉRENCE/REFERENCE DRAWINGS
REVISIONS
AGNICO EAGLE — MELIADINE GOLD PROJECT
FIGURE 3.12 YEARLY SITE LAYOUT PLAN FOR WATER MANAGEMENT (YEAR 7)
1:12500
6500-680-210-200-012
29-03-2015

KIA-WL-15: Sample Station Categorization
KIA-WL-15: ᐆᒃᑐᕋᕐᕖᑦ ᐊᔾᔨᒌᖕᒋᓐᓂᖕᒋᑦ

Resolution	ᑐᑭᓯᖅᑲᑎᒌᒍᑦ

- AEM's low action level response for these three locations will be:
  - To recategorize the specific location of concern as a General Aquatic Monitoring Station,
  - Include the location as an additional station in the Aquatic Environment Monitoring Program,
  - Investigate the source of contamination, and
  - Mitigate the source to prevent further contamination of the water body.

- AEM ᑭᐅᔾᔪᑎᖕᒋᑦ ᐅᐸᓗᐊᖕᒋᓪᓗᒋᑦ ᑖᑉᑯᐊ ᐱᖕᓯᓱᑦ ᐃᓂᖕᒋᑦ ᐅᑯᐋᖕᒍᓂᐊᖅᐳᑦ:
- ᓴᖅᑮᒃᑲᓐᓂᕐᓂᖅ ᐃᓂᒋᔭᐅᓂᐊᖅᑐᖅ ᐃᒪᕐᒥᐅᑕᐃᑦ ᐃᓱᒫᓗᑕᐅᔾᔪᑦ ᐃᓃᑦ ᒥᒃᓵᓄᑦ ᖃᐅᔨᓴᕐᓂᕐᓂᒃ
- ᐃᐊᓗᑎᓪᓗᒍ ᐃᓂ ᖃᐅᔨᓴᕐᕕᐅᖃᑕᐆᓕᕐᓗᓂ ᐃᒪᕐᒥᐅᑕᐃᑦ ᐊᕙᑎᖕᒋᓐᓄᑦ ᖃᐅᔨᓴᕐᕕᖕᓂ
- ᕿᓂᕐᓂᖅ ᓇᑭᑦ ᐱᖕᒪᖕᓘᑦ ᐅᓗᓚᐋᓚᖅᑐᖅ, ᐊᒻᒪ
- ᐋᖅᑭᑎᐊᕐᓗᒍ ᐅᓗᓚᐊᓚᖅᑐᖃᕐᕕᒃ ᐅᓗᓚᐊᓚᖅᑐᖃᒃᑲᓐᓂᖁᓇᒍ ᐃᒪᕐᒧᑦ

KIA-WL-16: Detection Limits
KIA-WL-16:ᖃᐅᔨᓴᑏᑦ ᑭᒡᓕᖅᑭᑦ

Issue	ᐃᓱᒫᓗᑦ
AEM has indicated no accredited laboratory will be located on site	AEM ᓇᓗᓇᐃᖅᓯᒪᔪᑦ ᖃᐅᔨᓴᖅᑎᓪᓚᕐᑖᒥᒃ ᐱᑕᖃᖅᑐᐊᓂᑦᑐᖅ ᐱᓕᕆᕝᕕᖓᒥ
Proposed the use of six analytical laboratories • Concerned for interlab variability	ᐊᕐᕕᓂᓕᖕᓂᒃ ᖃᐅᔨᓴᖅᑎᖏᓐᓂᒃ ᐊᑐᕆᒪᓂᖃᖅᑐᑦ • ᐃᓱᒫᓗᑎᖕᒐᑦ ᐊᔾᔨᒋᖕᒋᑦᑐᓕᕆᔾᔪᓇᕐᓂᖅ
AEM did not provide detection limits that will be used at the laboratories	AEM ᓇᓗᓇᐃᕆᑲᐅᖕᒋᑦᑐᑦ ᖃᐅᔨᔾᔪᑎᒃᓴᓂᒃ ᑭᒡᓕᖃᖅᑎᐅᓂᐊᖅᑐᓂᒃ ᖃᐅᔨᓴᖅᑎᖕᓂ

KIA-WL-16: Detection Limits
KIA-WL-16:ᖃᐅᔨᔪᑏᑦ ᑮᓕᓐᖏᑦ

Resolution	ᐋᖅᑭᔾᔪᑕᐅᓚᐅᖅᑐᖅ

- AEM has committed to work with the KIA to achieve acceptable detection limits for all laboratories and parameters
  - Limits will be based on those proposed in our submission
  - Agreed upon limits will be included in the Quality Assurance / Quality Control Plan
- Detection limits will apply to all contracted analytical laboratories for water quality samples collected at specific sites indicated in our submission

- AEM ᐱᓂᐊᕐᓂᖅᑲᖅᐳᖅ ᐱᓕᕆᖃᑎᒌᓐᓂᐊᖅᑐᓂ ᑭᐊ ᐃ ᑯᑦ ᓈᒻᒪᒃᑐᓂᒃ ᖃᐅᔨᒋᐊᕐᓂᕐᒧᑦ ᑮᓕᓯᓂᐋᕈᑎᖃᕈᓐᓇᖁᑉᐳᒋᑦ ᑕᒪᐃᓐᓄᑦ ᖃᐅᔨᓴᕐᕕᓐᓄᑦ ᐊᒻᒪ ᐊᑦᑎᖕᖏᓐᓄᑦ
  - ᑮᓕᓐᖏᑦ ᑕᐃᑯᐊᖑᓂᐊᖅᐳᑦ ᓴᖅᑭᑕᐸᑎᓐᓂ ᓇᓗᓇᐃᖅᓯᒪᔪᑦ
  - ᐊᖏᕈᑕᐅᔪᑦ ᑮᓕᒃᓴᐃᑦ ᐃᓚᐅᓂᐊᖅᐳᑦ ᐱᐅᔪᓂᒃ ᓈᒻᒪᒃᓴᕈᑎᓂ/ᓈᒪᑏᐊᖅᑐᓂᒃ ᐱᓕᕆᐊᖃᕐᓂᕐᒧᑦ ᐸᕐᓇᒍᑏᑦ ᐃᓪᓗᐋᓂ
- ᖃᐅᔨᔾᔪᑏᑦ ᑮᓕᓐᖏᑦ ᐊᑐᖅᑕᐅᓂᐊᖅᐳᑦ ᑕᒪᐃᓐᓄᑦ ᑲᓐᑐᓚᒃᓯᒪᔪᓄᑦ ᖃᐅᔨᓴᕐᑎᓄᑦ ᐃᒪᐃᑦ ᓈᒻᒪᖕᒪᖓᓛ ᖃᐅᔨᒋᐊᕐᕕᖕᓄᑦ ᓇᓗᓇᐃᖅᓯᒪᔪᓂ ᓴᖅᑭᑕᐸᑎᓐᓂᒃ

KIA-WL-17: Potential Impacts to Lake B7
KIA-WL-17: ᐃᒃᐱᖕᓇᕐᓂᕆᔭᖕᓇᖅᑕᖕᒋᑦ ᑕᓯᖅ B7 ᒧᑦ

Issue

- AEM has moved to dry stack storage of the tailings
  - This reduces impacts to the aquatic environment
  - The main concern of dry stacking is dust generation during operation
- AEM has not provided a map indicating all dust fall monitoring stations in the application
- Lake B7 is now potentially subject to dust deposition originating from the dry stack tailings

ᐃᓱᒫᓗᑦ

- AEM ᓅᓚᐅᕐᒪᑕ ᐸᓂᖅᑐᓂᒃ ᑐᖅᑯᖅᓯᒪᔾᔨᓂᖅ ᐃᕐᑭᖅᑐᐃᔾᔪᑎᕕᓂᕐᓂᒃ ᐅᔭᕋᒃᑕᖅᑕᐅᓂᑯᓄᑦ
  - ᑖᒻᓇ ᒥᒃᓵᕙᓪᓕᖅᑎᑦᑎᖕᒪᑦ ᐅᓗᕆᐊᓇᕐᓂᕐᓄᑦ ᐃᒪᕐᒦᑦᑐᓄᑦ
  - ᐸᓂᖅᑐᓂᒃ ᑲᑎᖅᓱᐃᓂᖅ ᐃᓱᒫᓗᑎᖅᑲᑭᑎᖅᑲᕐᒪᑦ ᐳᔭᖅᑳᒃᑎᑦᑎᖅᑲᑦᑕᕐᓂᖕᒐᓂᒃ ᑲᑎᖅᓱᖅᑕᐆᓚᖄᖕᒐᑦ
  - AEM ᑐᓂᓯᓚᐅᖕᒋᒻᒪᑦ ᓱᓕ ᓄᓇᖑᐊᕐᒥᒃ ᓇᓗᓇᐃᕆᔭᕐᒥᒃ ᓱᑯᑦᑎᐊᓂ ᖅᑲᐅᔨᓴᖅᑕᐅᕙᖕᒪᖔᑦ ᐳᔭᖅᑳᑉ ᐃᖕᒋᕐᖃᓂᖕᒋᑦ
  - ᑕᓯᖅ B7 ᑎᒃᑕᐅᕕᐅᑐᐃᓐᓇᕆᐊᖅᑲᕐᒪᑦ ᐃᕐᑭᖅᑐᑎᕕᓂᕐᓂᒃ ᑲᑎᑕᐅᓯᒪᔪᓂᒃ

KIA-WL-17: Potential Impacts to Lake B7
KIA-WL-17: ᐃᑭᐱᖕᓇᕐᓂᕆᔪᓐᓇᖅᑕᖏᑦ ᑕᓯᖅ B7 ᒧᑦ

Resolution	ᐋᖅᑭᒋᐊᕈᑕᐅᓯᒪᔪᑦ
AEM has committed to include all dust fall monitoring stations and locations within the Dust Management Plan prior to any material being placed in the Tailings Storage Facility	AEM ᐅᖃᖅᓯᒪᔪᑦ ᓇᓗᓇᐃᕆᓂᐊᖅᓯᒪᐸᓗᑎᒃ ᑕᒪᐃᓐᓂᒃ ᐳᔪᖃᑖᕐᓂᒃ ᖃᐅᔨᓴᕐᕕᑦ ᐃᓂᖏᓐᓂᒃ ᐳᔪᖃᑖᑦ ᒥᒃᓵᓄᑦ ᐊᐅᐊᑦᑎᓂᐅᓂᐊᖅᑐᑦ ᐸᕐᓇᒃᓯᒪᔾᔪᑎᖏᓐᓂ ᐃᑉᐳᖅᑑᑎᕕᓂᕐᓂᒃ ᐃᓕᓯᐅᖃᒃᑲᓂᓚᐅᖅᑎᓐᓇᒍ ᐃᑉᐳᖅᑑᑎᕕᓂᐅᓯᕚᒃᓴᒧᑦ

KIA-WL-18: Dust Management at Closure
KIA-WL-18: ᐳᔪᖃᑖᓂᒃ ᐊᐅᓚᑦᑎᓂᖅ ᒪᑐᔭᐅᒋᐊᖅᐸᑦ

Issue

- AEM indicated that dust control would be *“evaluated and implemented during closure activities as required”*
- Dust management is an issue of significant concern to the community
- AEM had not provided the thresholds to determine if dust control will be required at closure

ᐃᓱᒫᓗᑦ

- AEM ᓇᓗᓇᐃᕆᓚᐅᕐᒪᑕ ᐳᔪᖃᑖᒃ “ ᕿᒥᕐᕈᔭᐅᔪᒫᕐᒪᑦ ᐊᒻᒪ ᐱᓕᕆᐋᖑᓗᓂ ᒪᑐᕙᓪᓕᐊᓕᖅᐸᑦ ᐊᒻᒪ ᐱᓕᕆᐋᖑᔭᕆᐊᖃᓕᕌᖓᑦ”
- ᐳᔪᖃᑖᒃ ᐃᓱᒫᓗᑕᐅᒻᒪᕆᖕᒪᑦ ᓄᓇᓕᖕᒧᑦ
- AEM ᓴᖅᑭᑦᑎᓚᓗᖏᑦᑐᖅ ᓱᓕ ᐳᔪᖃᑖᑦ ᒥᒃᓵᓄᑦ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᓂᒃ ᐊᒻᒪ ᐳᔪᖃᑖᒃ ᐃᓱᒫᓗᑎᒃᓴᐅᓕᕋᔭᕐᒪᖔᑦ ᒪᑐᓕᖅᐸᑦ

KIA-WL-18: Dust Management at Closure
KIA-WL-18: ᐳᔪᖅᑲᓛᓂᒃ ᐊᐅᓚᕐᑎᓂᖅ ᒪᑐᔾᐅᒋᐊᖅᐸᑦ

Resolution	ᐋᖅᑭᒋᐊᖅᑕᐅᓯᒪᔪᖅ
AEM has committed to including a discussion of these thresholds in the next iteration of the Closure Plan	AEM ᑕᒪᑐᒪ ᒥᒃᓵᓄᑦ ᐅᖁᓯᖅᑲᖅᑲᓯᐅᑎᓂᐊᕐᓂᕋᖅᑐᑦ ᑭᒍᓪᓚᕐᒥ ᑲᑎᒍᑉᑕ ᐅᒃᑯᐊᕈᒫᕐᓂᐊᑕ ᒥᒃᓵᓂᒃ ᐅᖃᐅᓯᖃᕈᑉᑕ

KIA-WL-19: Fuel Contact Water Discharge Criteria
KIA-WL-19: ᐅᖅᓱᐊᓘᑉ ᐊᒃᑐᑫᔭᕐᓂᖓᑕ ᐃᒪᕐᒧᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᒪᓕᒋᑦ

Issue	ᐃᓱᒫᓘᑦ
• AEM had not provided discharge criteria for melting snow and precipitation within secondary contact berms of the Fuel Tanks at Itivia Harbour • Concern given Itivia is located away from treatment infrastructure and will contain fuel tanks and potential contact water	• AEM ᐊᑐᐃᓐᓇᕈᐃᓚᐅᖏᑦᑐᑦ ᖃᓄᖅ ᐊᐳᑦ ᐊᐅᒃᐸᓪᓕᐊᔪᖅ ᐊᒻᒪ ᐃᒪᖅ ᐱᓕᕆᐊᖑᓂᐊᕐᒪᖔᑦ ᐅᖅᓱᐋᓗᖃᖅᕕᒃᓴᓂ ᐃᑎᕖᓂ • ᐃᓱᒫᓘᑦ ᐃᑎᕙᐊ ᐅᖓᓯᖕᓂᖓ ᐃᒪᕐᒧᑦ ᐱᓕᕆᕝᓄᑦ ᐊᒻᒪ ᐃᓗᓕᖃᖅᓂᐊᖅᖢᑎᒃ ᐅᖅᓱᐋᓗᖕᓂᒃ ᐊᒻᒪ ᐃᒪᕐᒧᑦ ᐊᒃᑐᐃᑐᐃᓐᓇᓇᐊᖃᕐᓂᖓ

KIA-WL-19: Fuel Contact Water Discharge Criteria
KIA-WL-19: ᐅᖅᓱᐊᓘᑉ ᐊᒃᑐᕋᔅᓯᓐᓂᖓᑕ ᐃᒪᖓᑦ ᖃᓄᐃᓕᐅᕈᑎᒃᓴᐃᑦ ᒪᓕᒐᑦ

Resolution	ᐋᖅᑭᒋᐊᖅᑕᐅᓯᒪᔪᖅ
Water meeting discharge criteria will be used as a dust suppressant along the roads Water not meeting criteria will be discharged to the tundra AEM intends to apply discharge criteria currently used at Meadowbank and will include it in the next iteration of the dust management plan prior to construction	ᐃᒪᖅ ᐅᑐᕆᐊᓇᖏᑦᑐᖅ ᐊᕙᑎᒧᑦ ᐊᐅᑦᖅᑕᐅᓂᐊᖅᐳᖅ ᐳᔪᖅᑳᒋᒃᑯᑕᐅᑐᓂ ᐊᑉᖁᑎᓄᑦ ᐃᒪᖅ ᐊᑐᖓᒃᓴᐅᖏᑦᑐᖅ ᓄᓇᒧᑦ ᑰᒃᑎᑕᐅᓂᐊᖅᐳᖅ AEM ᐊᑐᕐᓂᐊᖅᐳᖅ ᒪᓕᒡᓗᑎᒃ ᐊᑐᖅᑕᒥᓂᒃ ᒫᓐᓇ ᐊᐳᖅᑎᓐᓈᖅᑐᒥ ᐊᒻᒪ ᐃᓚᐅᑎᓐᓂᐊᕐᓗᒍ ᐳᔪᖅᑳᑉ ᒥᒃᓵᓄᑦ ᐱᓕᕆᐋᖅᑲᓕᕈᑎᒃ ᓴᓇᓯᐊᓚᐅᕆᓐᓂᕐᒥᙵᓂᒃ ᐅᔾᕋᒃᑕᕆᐊᒥᒃ

KIA-WL-20: Incinerator Dust Fall Monitoring
KIA-WL-20: ᐊᒃᑕᑯᓂᒃ ᐃᑭᑎᕐᑎᑎᓪᓗᒋᑦ ᐃᓯᐋᕿᓂᖅᑭᓐᓂᒃ ᖃᐅᔨᓴᕐᓂᖅ

Issue	ᐃᓱᒫᓗᑦ

- Our concern follows from KIA-WL-17
  - We require more detail regarding AEM's dust fall monitoring
- The incinerator management plan only included emissions guidelines for mercury, dioxins and furans

- ᐃᓱᒫᓗᑎᒍᑦ ᒪᓕᖕᒪᑦ ᑭᐊ-WL-17 ᒥᒃ
  - ᑐᑭᓯᒃᑲᓐᓂᕆᐊᕐᑲᖅᐳᒍᑦ AEM ᑯᑦ ᖃᐅᔨᓴᕐᓂᕆᓂᐊᖅᑕᖅᑭᓐᓂᒃ ᐳᔪᖅᑳᑦ ᒥᒃᓵᓄᑦ
- ᐊᒃᑕᑯᓄᑦ ᐃᑭᑎᕐᑎᓂᖅᑭᑦᑕ ᐊᐅᓚᕐᑎᓂᖅᑭᑦ ᐅᖃᐅᓯᖃᓚᐅᕐᒪᑕ ᒪᓕᒐᓂᒃ ᐅᓗᕆᐊᓇᖅᑐᓐᒃ ᐃᒃᑎᕐᑎᓂᖅ ᑭᖓᓂ ᓱᕐᓗ ᒨᑯᕆ, ᓇᐃᔾᕐᓗᖕᓇᖅᑐᓂᒡᓗ ᐊᓯᖅᑭᓐᓂᒃ

KIA-WL-20: Incinerator Dust Fall Monitoring
KIA-WL-20: ᐊᒃᑕᑯᓂᒃ ᐃᑭᑎᕐᑎᑎᑦᑐᒋᑦ ᐃᓯᐋᕿᓂᖏᓐᓂᒃ ᖃᐅᔨᓴᕐᓂᖅ

Resolution	ᐋᖅᑭᒋᐊᖅᑕᐅᓯᒪᔪᖅ

- AEM has committed to:
  - Include a summary of all dust monitoring stations
  - Specify which sources they are able to characterize
  - Place high volume air samples downwind of the open pits and the Tailings Storage Facility
  - Specify detection limits and analytical procedures
  - Monitor the snowpack
- This will be included in the Dust Management Plan prior to any material being placed in the Tailings Storage Facility

- AEM ᐱᓂᐊᕐᓂᖃᖅᐳᖅ:
  - ᐃᓚᐅᑎᑦᑎᓂᐊᕐᑐᑎᒃ ᑕᒪᐃᓐᓂᒃ ᐳᔪᖃᑖᓂᒃ ᖃᐅᔨᓴᕐᕕᖕᓂᒃ
  - ᓇᓗᓇᐃᕆᓗᑎᒃ ᓱᓇᓂᒃ ᖃᐅᔨᔪᓐᓇᕐᒪᖔᑖ
  - ᐊᖏᔪᓂᒃ ᓯᓚᒥᒃ ᖃᐅᔨᓴᕐᓂᖃᕈᓐᓇᕐᑐᑎᒃ ᐅᖅᑯᖅᓴᓂᕐᓂ ᐅᔾᕿᒃᑕᕐᕖᑦ ᐊᒻᒪ ᐃᕐᕈᖅᑐᐃᔾᔪᑎᕕᓃᑦ ᐃᓂᖏᓐᓂᒃ
  - ᓇᓗᓇᐃᕆᓗᑎᒃ ᑭᓪᓕᖕᒋᓐᓂᒃ ᖃᐅᔨᓴᕈᑏᑦ ᐊᒻᒪ ᖃᓄᖅ ᐱᓕᕆᕙᖕᓂᖏᓐᓂᒃ
  - ᖃᐅᔨᓴᕐᑐᑎᒃ ᐊᐳᑏᑦ ᒥᒃᓵᓄᑦ
- ᑕᒪᓐᓇ ᐃᓚᓗᓂᐊᖅᑐᖅ ᐳᔪᕐᓂᒃ ᖃᐅᔨᓴᕐᓂᕐᒧᑦ ᐊᐅᓚᑦᑎᓂᕐᒧᑦᑐ ᐱᓕᕆᐊᖑᓂᐊᖅᑐᓂᒃ ᐃᕐᕈᖅᑐᐃᔾᔪᑎᕕᓂᕐᓄᑦ ᓴᑎᖅᓱᐃᕙᒃᓴᖅ ᐊᑐᓕᐊᖅᑎᓐᓇᒍ

KIA-WL-22: STP Discharge Criteria
KIA-WL-22: STP ᑯᕕᔾᐅᓂᖓᓄᑦ ᒪᓕᒐᒃᓴᖅ

Issue

- AEM intends to use *“Biological reactors like Bionest Kodiak units… to treat camp waste water.”*
  - No discharge criterion has been included for oil and grease
  - This request is conservative as discharges go to CP1 prior to the receiving environment

ᐃᓱᒪᒌᑦ

- AEM ᐊᑐᕐᓂᐊᕐᒪᑕ “ᐃᕿᖅᑐᐃᔾᔪᑎᓂᒃ ᒥᐊᕐᖔᑎᒥᒃ ᐱᓕᕆᕙᖕᓂ ᐃᕿᖅᑐᐃᔪᓐᓇᖅᑐᓂᒃ”
  - ᖃᓄᖅ ᑯᕕᓯᓂᐊᕐᒪᖔᕐᒥᒃ ᐅᖅᓱᖅᑎᕈᑎᓂᒃ ᐃᓚᐅᔪᖃᙱᑦᑐᖅ
  - ᑖᓐᓇ ᑐᒃᓯᕆᐅᑦ ᒥᑭᓂᖅᓴᐅᕗᖅ ᑯᕕᖅᑕᖅᑕᐅᔪᑦ ᑐᕌᓱᖕᒐᖕᒪᑕ CP1 ᒧᑦ ᓯᓚᒧᑦ ᐊᕙᑎᒧᑦ ᑎᑭᓚᐅᕐᓇᑎᒃ

KIA-WL-22: STP Discharge Criteria
KIA-WL-22: STP ᑯᕕᔭᐅᓂᖅᒐᓄᑦ ᒪᓕᒐᒃᓴᖅ

Resolution	ᐋᖅᑭᑎᐊᕈᑦ
AEM will confirm grease traps from the outlet of the kitchens and other possible sources of oil and grease AEM has clarified the sewage treatment plant will only ever discharge to CP1 – there will be no discharge to tundra	AEM ᓇᓗᓇᐃᑎᓂᐊᖅᐳᑦ ᐳᓐᓂᕐᓂᕐᓂᒃ ᑲᑎᖅᓱᐃᙵᒃᓴᓂᒃ ᐃᒐᙳᕕᖕᒥ ᐊᒻᒪ ᐊᓯᖕᑎᓐᓂ ᐅᖅᓱᖃᕐᕕᖕᓂ, ᐳᓐᓂᕐᓂᖃᕐᕕᖕᓂ. AEM ᓇᓗᓇᐃᑎᓯᒪᔪᖅ ᖁᕐᕕᖕᒧᑦ ᑯᕕᖅᑕᕐᕕᒃ ᑯᕕᓯᖃᑦᑕᕐᓂᐊᖅᑐᖅ CP-! ᒧᑦ ᑭᓯᒥ – ᓄᓇᐃᓐᓇᕐᒧᑦ ᑯᕕᔪᖃᖃᑦᑕᕐᓂᐊᖕᒋᑦᑐᖅ

KIA-WL-23: Untested Cyanide Detoxification Process
KIA-WL-23: ᐆᑦᑐᖅᑕᐅᓯᒪᙱᑦᑐᑦ ᑐᕋᖕᓇᖅᑐᑦ ᓴᐃᔭᓇᐃᑦ ᐅᓗᕆᐊᓇᕈᓐᓂᖅᑎᑕᐅᓂᖏᓐᓄᑦ ᒪᓕᒋᐊᓖᑦ

Issue	ᐃᓱᒫᓗᑦ
- The cyanide detoxification has yet to be tested at the Meliadine Site - The total volume of process water to be managed has yet to be confirmed	- ᓴᐃᔭᓇᐃᑦ ᒥᒃ ᐅᓗᕆᐊᓇᕈᓐᓃᖅᑎᑦᑎᓂᖅ ᐆᑦᑐᖅᑕᐅᓯᒪᙱᑦᑐᖅ ᓱᓕ ᑕᓯᕐᔪᐊᕐᒥ ᐱᓕᕆᕝᕕᐊᓂ - ᐃᒪᕐᒥᒃ ᖃᓄᖅ ᐊᒃᑎᒋᔪᒥᒃ ᐊᑐᕐᓂᐊᕐᒪᖔᕐᒦᒃ ᓱᓕ ᓇᓗᓇᐃᖅᓯᒪᙱᑦᑐᑦ

KIA-WL-23: Untested Cyanide Detoxification Process

KIA-WL-23: ᐆᒃᑐᖅᑕᐅᓯᒪᙱᑦᑐᑦ ᑐᕐᑯᓐᓇᖅᑐᑦ ᓴᐃᔭᓇᐃᑦ ᐅᓗᕆᐊᓇᕈᓐᓂᖅᑎᑕᐅᓂᖕᒋᓐᓄᑦ ᒪᓕᒋᐊᓖᑦ

Resolution

- AEM has confirmed they will use the same technology to detoxify cyanide applied at Meadowbank
- AEM has committed to an "as needed" treatment approach for discharges to Meliadine Lake from CP1
  - AEM will add cyanide detoxification to the treatment plant if they are unable to meet the cyanide discharge criteria
  - AEM will recirculate effluent that does not meet discharge criteria and store it in CP1 until the treatment system has been installed and is operational

ᐋᖅᑭᒋᐊᕈᑦ

- AEM ᓇᓗᐊᐃᖅᓯᒪᔪᑦ ᒪᓕᖕᓂᐊᕐᓂᕐᒥᓂᒃ ᐅᓗᕆᐊᓇᕈᓐᓃᖅᑎᑦᑎᓂᖕᒋᑦ ᐊᐳᖅᑎᓐᓈᖅᑐᒥ ᐊᑐᖅᑕᐅᔪᑦ ᒪᓕᒃᑕᐅᓂᐊᕐᒪᑕ ᑕᓯᕐᔪᐊᕐᒥ
- AEM ᐱᓕᓇᓂᐊᕐᓂᖃᖅᑐᑦ " ᐊᑐᓇᐊᕐᑲᖄᖕᒐᒥᒃ ᑭᓯᐊᓂ" ᐋᖅᑭᒋᐊᖅᓯᕐᑲᑦᑕᕐᓂᐊᕐᓂᕐᒥᒃ ᑯᕕᑎᑦᑎᔮᖕᒐᒥᒃ ᑕᓯᕐᔪᐊᕐᒧᑦ CP1 ᒥᑦ
  - AEM ᐃᓚᓯᕐᑲᑦᑕᕐᓂᐊᖅᐳᑦ ᓴᐃᔭᓇᐃᑦ ᒧᑦ ᐅᓗᕆᐊᓇᕈᓐᓃᕈᑎᒥᒃ ᐅᖕᒐᐅᖅᑯᑦᑎᓯᒪᔮᖕᒐᒥᒃ ᓴᐃᔭᓇᐃᑦ ᑯᕕᔭᐅᔪᓐᓇᕐᓂᖕᒋᑦᑕ ᒪᓕᒐᖕᒋᓐᓂᒃ
  - AEM ᐊᑐᒃᑲᓐᓂᕐᑲᑦᑕᕐᓂᐊᖅᐳᑦ ᐃᒪᕐᓘᒻᒥᒃ ᓈᒻᒪᖕᒋᒃᑲᖕᒐᑦ ᑯᕕᔭᐅᔪᓐᓇᕐᓂᖕᒐ ᐊᒻᒪ ᑐᖅᑯᖅᑕᐅᕐᑲᑦᑕᕐᓂᐊᖅᓗᓂ CP1 ᒧᑦ ᐋᖅᑭᒋᐊᕈᑖ ᐃᓕᔭᐅᓚᐅᖅᑎᓐᓇᒍ ᐊᒻᒪ ᐊᐅᓪᓛᓕᓚᐅᖅᑎᓐᓇᒍ

KIA-WL-24: Application of Water Quality Criteria to Modelled Results

KIA-WL-24: ᐊᑐᖅᑕᐅᓂᐊ ᐃᒪᕐᑎᐊᕙᖃᕐᓂᐅᑉ ᒪᓕᒋᐊᖃᕐᓂᖏᑦ ᐊᑐᓚᖅᑕᐅᓯᒪᔪᓄᑦ ᖃᐅᔨᓴᖅᑕᐅᓂᑯᓄᑦ

Issue	ᐃᓱᒫᓗᑦ
- Metal Mining Effluent Regulations (MMER) have been compared to modeled dissolved metals concentrations in the collection ponds - MMER applies to total metals - AEM has provided modeled results with the maximum average Total Suspended Solids concentration added to the dissolved fraction	- ᓴᕕᒃᓴᒥᒃ ᐅᔭᕋᖕᓂᐊᕐᓃᑦ ᒪᓕᒐᖏᑦ ᐊᔾᔨᓯᔪᐅᓯᒪᖕᒪᑕ ᓄᖑᐊᖅᓯᒪᔪᓄᑦ ᓴᕕᒃᓴᓄᑦ ᑲᑎᖅᓱᖅᓯᒪᔪᓄᑦ ᑕᓯᕋᓚᐊᕐᓂ - MMER ᑐᕌᖅᐳᖅ ᑕᒪᐃᓐᓄᑦ ᓴᕕᖕᓄᑦ - AEM ᑐᓂᓯᓯᒪᕗᖅ ᖃᐅᔨᓂᕐᓂᒃ ᐊᖏᓂᖅᐹᒥᒃ ᐳᒃᑖᖅᑐᓂᒃ ᓴᕕᒃᓴᓂᒃ ᐃᓚᔭᐅᓯᒪᔪᓂᒃ ᓄᖑᐊᖅᓯᒪᔪᓄᑦ

KIA-WL-24: Application of Water Quality Criteria to Modelled Results

KIA-WL-24: ᐊᑐᖅᑕᐅᓂᐊ ᐃᒪᕐᑎᐊᕈᖃᕐᓂᐅᑉ ᒪᓕᒋᐊᖃᕐᓂᖏᑦ ᐊᑐᓕᖅᑕᐅᓯᒪᔪᓄᑦ ᖃᐅᔨᓴᖅᑕᐅᓂᑯᓄᑦ

Resolution	ᐋᖅᑭᒋᐊᕈᑦ

- We are no longer concerned regarding the comparison of MMER criteria to the dissolved fraction operations
  - Water in all collection ponds will report to CP1
- During post closure, all collection ponds are considered the receiving environment
  - They will be maintained until they are acceptable for discharge to the environment
  - Final discharge criteria will be established in a later version of the Closure Plan

- ᐃᓱᒪᓗᑎᔪᓐᓂᖅᑕᑯᑦ MMER ᒪᓕᒐᖏᑦ ᓄᖑᓴᖅᓯᒪᔪᓄᑦ ᐊᐅᓚᑦᑎᓂᑦ
  - ᑕᒪᕐᒥᒃ ᐃᒪᐃᑦ ᑲᑎᑕᐅᔪᑦ ᑕᓯᕐᕆᓂ ᐃᓕᔭᐅᓂᐊᖅᐳᑦ CP1 ᒧᑦ
- ᐅᒃᑯᐊᓚᐅᖅᑎᓪᓗᒍ ᑕᒪᕐᒥᒃ ᑕᓯᕐᐃᑦ ᐃᓱᒪᒋᔭᐅᓂᐊᖅᐳᑦ ᐊᕙᑎᒧᑦ ᑲᑎᖅᓱᕐᕕᒃᑐᑦ
  - ᒥᐊᓂᕆᔭᐅᓂᐊᖅᐳᑦ ᑯᕕᔭᐅᔪᓐᓇᖅᓯᓚᐅᖅᑎᓐᓇᒋᑦ ᓄᓇᒧᑦ
  - ᑭᖑᓪᓕᖅᐹᖅᓯᐅᑦ ᒪᓕᒐᒃᓴᖅ ᓴᖅᑭᑕᐅᓂᐊᖅᐳᖅ ᖃᑯᒍᒃᑲᓐᓂᖅ ᐸᕐᓇᓐᓂᕐᒧᑦ ᐅᒃᑯᐊᕐᓂᒃᓴᖓᓄᑦ

KIA-WL-25: Dust Suppression Along Roads
KIA-WL-25: ᐊᑉᕐᑯᑏᑦ ᑭᒡᓚᐊᓂ ᐳᔪᕐᑲᑖᕐᑲᓗᐊᖅᑕᐃᓚᓂᖅ

Issue

- AEM intends to use saline groundwater as a dust suppressant
  - Saline water is not approved for use in Nunavut as a dust suppressant
  - Saline brines are also considered a contaminant under the United States Environmental Protection Agency

ᐃᓱᒫᓗᑦ

- AEM ᐊᑐᓚᒑᔪᑦ ᑕᕆᐅᓚᖕᓂᒃ ᐃᒪᕐᒥᒃ ᐳᔪᕐᑲᑖᒌᒃᑯᑎᒋᓗᒍ
  - ᑕᕆᐅᓚᒃ ᐃᒪᖅ ᐊᖏᖅᑕᐅᓯᒪᖏᑦᑐᖅ ᐊᑐᖅᑕᐅᓂᖕᒐ ᓄᓇᕗᑦ ᐃᓗᐋᓂ ᐳᔪᕐᑲᑖᒋᒃᑯᑎᒋᓗᒍ
  - ᑕᕆᐅᓛᑦ ᐊᑯᓯᒪᔪᑦ ᐅᓗᕆᐊᓇᖅᑐᒦᑎᑕᐅᔪᑦᑕᐅᖅ ᐊᒥᐅᕆᑲᓐ ᓄᓇᖕᒐᓐᓂ ᐊᕙᑎᓕᕆᓂᕐᒧᑦ ᒥᐊᓂᖅᓯᔨᖕᒋᓐᓄᑦ

KIA-WL-25: Dust Suppression Along Roads
KIA-WL-25: ᐊᑉᕐᑯᑏᑦ ᑭᒡᓚᐊᓂ ᐳᔪᖅᑲᑖᖅᑲᓗᐊᖅᑕᐃᓚᓂᖅ

Resolution	ᐋᖅᑭᒋᐊᕈᑦ
AEM has committed to apply to the Government of Nunavut to approve application of saline groundwater originating from the Meliadine Site as a dust suppressant prior to its use	AEM ᑐᒃᓯᕋᕐᓂᐊᕐᓂᕋᖅᑐᖅ ᓄᓇᕗᑦ ᒐᕙᒪᒃᑯᖏᓐᓂᑦ ᐊᖏᖅᑕᐅᔾᔪᑎᒥᒃ ᐊᑐᕈᓐᓇᕐᓂᕐᒥᒃ ᑕᕆᐅᓕᖕᒥᒃ ᐃᒪᕐᒥᒃ ᑕᓯᕐᔪᐊᕐᒥᙵᖅᑐᒥᒃ ᐊᑐᕐᓂᐊᕐᓗᒍ ᐳᔪᖅᑲᑖᒃᑯᑎᒧᑦ ᐊᑐᓇᐋᓚᐅᖏᓐᓂᕐᒥᓂᒃ

KIA-WL-26: Dust Deposition to Nippisar Lake
KIA-WL-26: ᐳᔪᖅᑳᑖᖅᑲᓕᖅᑎᑦᑎᓂᖅ ᑕᓯᓐᓈᖅᒥᒃ

Issue	ᐃᓱᒫᓘᑦ
Concern regarding the impact of dust from the bypass road on the Rankin Inlet water supply located in Nippisar Lake	ᐃᓱᒫᓘᑦ ᐱᐸᓗᒍ ᐳᔪᖅᑲᑖᒃ ᐃᒃᐱᙵᕐᓂᕆᓂᐊᖅᑕᖓ ᑲᖏᖅᖠᓂᐅᑉ ᐃᒥᖅᑕᕐᕕᐊᓄᑦ ᑕᓯᓐᓈᖅᒥ

KIA-WL-26: Dust Deposition to Nippisar Lake
KIA-WL-26: ᐳᔪᖅᑳᑖᖅᑲᓕᖅᑎᑦᑎᓂᖅ ᑕᓯᓐᓈᕐᒥᒃ

Resolution	ᐋᖅᑭᒋᐊᕈᑦ
Alternative road routes are being discussed with the hamlet council of Rankin Inlet	ᐊᓯᐊᒍᑦ ᐊᑉᖁᓯᐅᕋᔭᖅᓂᖅ ᒫᓇ ᐅᖃᐅᓯᐅᔪᖅ Hᐊᒻᓚᑦᑯᑦ ᑲᑎᒪᔩᖏᓐᓄᑦ ᑲᖏᖅᖠᓂᕐᒥ

KIA-WL-27: Reclamation of Dry Stack Tailings
KIA-WL-27: ᐊᑐᒐᒃᓴᖑᖅᑎᑦᑎᓂᖅ ᐸᓂᖅᑐᓂᒃ ᐅᔭᕋᒃᓴᐃᔭᕐᕕᐅᔪᕕᓂᕐᓂᒃ

Issue	ᐃᓱᒫᓘᑦ
- Concern regarding the time line for progressive reclamation of the dry stack tailings.	- ᐃᓱᒫᓘᑦ ᐊᑯᓂᐆᓂᓇᓂᐊᖅᑕᖓ ᐊᑐᒐᒃᓱᒃᑲᓐᓂᓱᓐᓇᕐᓂᖏᑦ ᐸᓂᖅᑐᑦ ᐅᔭᒐᒃᑕᖅᑕᐅᓂᑯᕕᓃᑦ. -

KIA-WL-27: Reclamation of Dry Stack Tailing
KIA-WL-27: ᐊᑐᒐᒃᓴᖑᖅᑎᑦᑎᓂᖅ ᐸᓂᖅᑐᓂᒃ ᐅᔭᕋᒃᓴᐃᔭᕆᐅᔪᕕᓂᕐᓂᒃ

Resolution	ᐋᖅᑭᐊᕈᑦ
AEM has indicated progressive reclamation will be started in year 7	AEM ᓇᓗᓇᐃᖅᓯᒪᔪᑦ ᐱᓕᕆᐊᖃᒪᕆᖕᓂᖅ ᐅᑎᖅᑎᑦᑎᕙᓪᓕᐊᓂᕐᒥᒃ ᓄᓇᒥᒃ ᑕᐅᑐᕆᓚᐅᖅᑕᖕᒐᓄᑦ ᐱᒋᐊᕐᓂᐊᖅ ᐅᑭᐅᖅ 7 ᖕᒐᓂ

QUESTIONS?

ᐊᐱᕐᖅᑯᑏᑦ ?