

**WHALE TAIL PIT EXPANSION PROJECT  
NWB PUBLIC HEARING  
FEBRUARY 12-13, 2020**



**AGNICO EAGLE**

# PRESENTATION SUMMARY

- Overview of Whale Tail Expansion Project
- Water Use and Waste Disposal
- Closure, Reclamation and Security
- Revisions to Management and Monitoring Plans
- Conclusion



# OVERVIEW OF THE WHALE TAIL EXPANSION PROJECT



# AGNICO EAGLE HISTORY AND APPROVED PROJECTS IN NUNAVUT



Event	Meadowbank	Whale Tail Pit	Whale Tail Pit Expansion	Meliadine
First gold discovery	1987	1972	1972	1972
AEM acquisition	2007	2007	2007	2010
AEM first drilling activity	2007	2013	2013	2010
Approval for construction	2007	2017	2019	2017
Construction period	2007-08-09-10	2018-19	2020	2017-18-19
Commercial production	2010	2019	2020	2019
End of production	2019	2022	Q4 2026**	**2033

\*\* Based on current life of mine estimates



# WHALE TAIL PIT APPROVED PROJECT



- **Whale Tail Pit Project approved and permitted** by Nunavut Impact Review Board Project Certificate No.008 on March 15, 2018 (herein referred to as the Approved Project).
- The **Type A Water Licence 2AM-WTP1826** was approved by the Minister on July 11, 2018 to begin construction and operation of the Whale Tail Pit.
- As a **satellite operation**, the Whale Tail Pit is approved to operate and will continue to:
  - feed the Meadowbank Mill and Tailings Storage Facility.
  - use associated Meadowbank Mine infrastructure under Project Certificate No. 004 and Type A Water Licence 2AM-MEA1526.



# WHALE TAIL PIT EXPANSION PROJECT



Agnico Eagle is seeking approval to **expand and extend the Whale Tail Pit Project** through a reconsideration of NIRB Project Certificate No. 008 and Type A Water Licence Amendment to include the:

- Expansion of the Whale Tail Pit
- IVR Pit; and
- Underground mine.

The deposits will be mined and ore will be stockpiled then hauled to the approved infrastructure at Meadowbank Mine for milling.

Life of Mine will be increased by **4 years**.

A positive ministerial decision for the NIRB reconsideration process was received on January 22, 2020.



# WHALE TAIL PIT EXPANSION

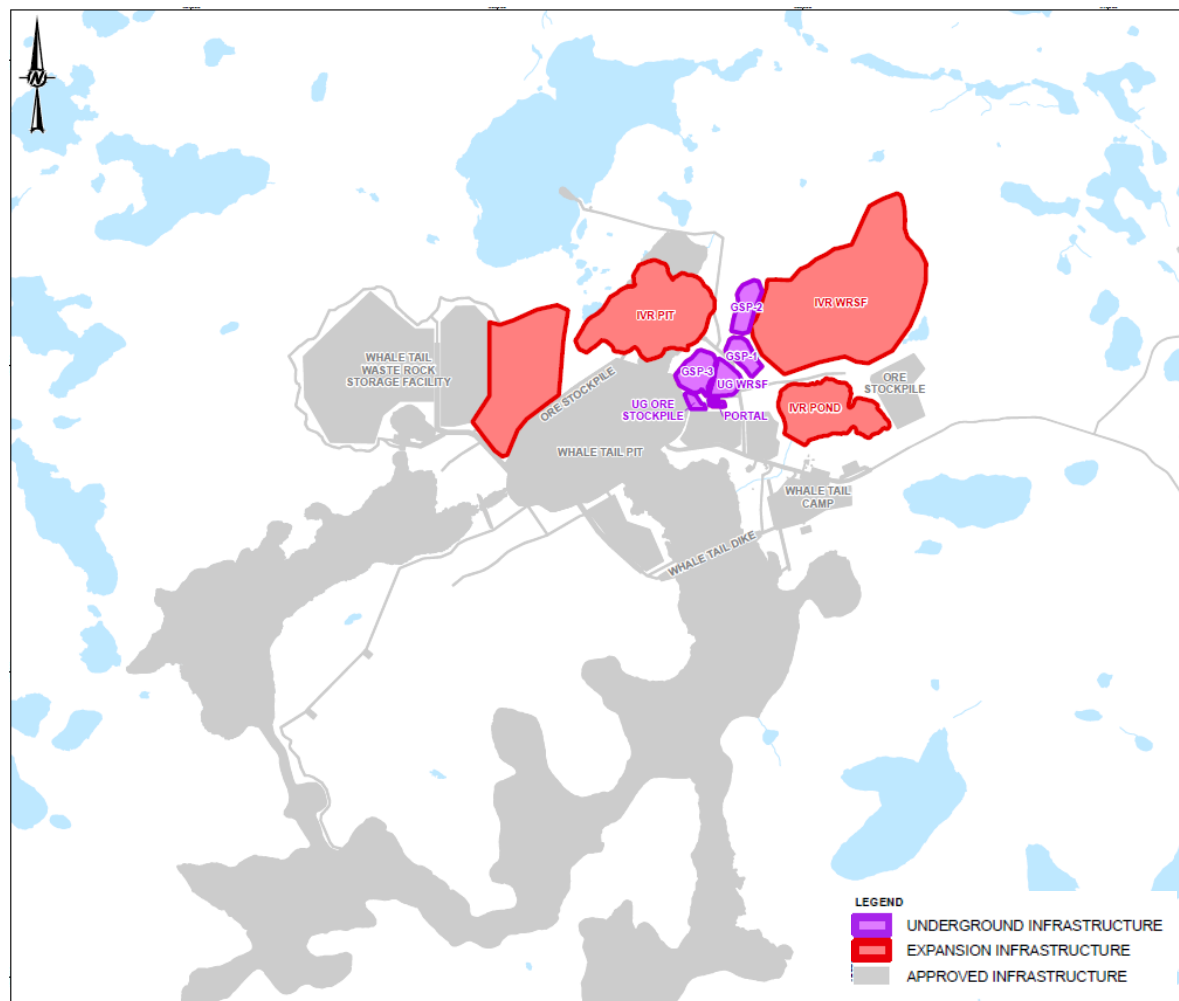
- 2019 – 2020 – Continue operating Whale Tail Pit, as approved while reviewing the Expansion Reconsideration and Type A Water Licence
- 2020 – 2022 – Begin operation of the expanded Whale Tail Pit, IVR pit stripping and build infrastructure
- 2020 – 2025 – Operate Whale Tail Pit Expansion
- 2026 – 2042– Closure – Pit Flooding
- 2043 – Post-Closure



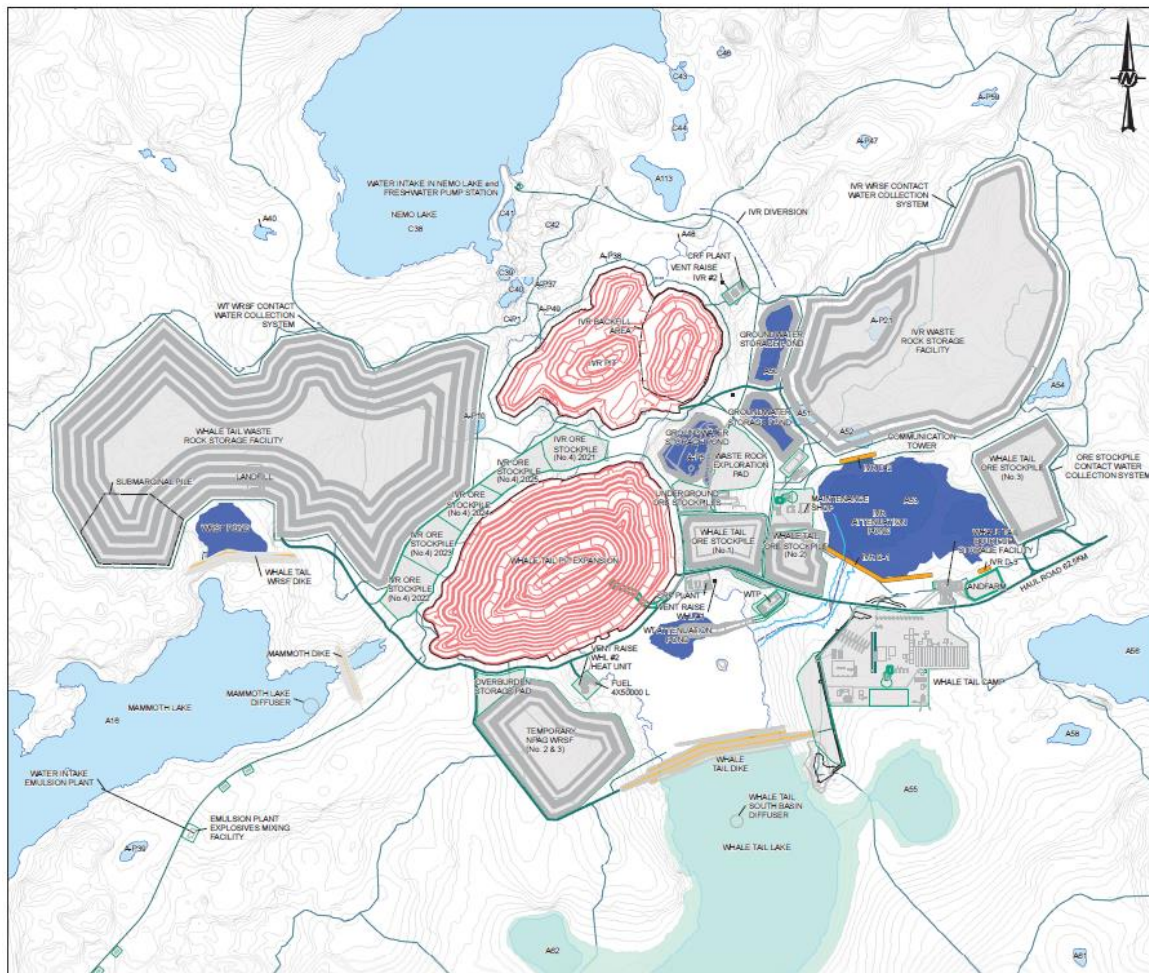


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## Whale Tail Pit Approved and Expansion Project Infrastructure







# WHALE TAIL PIT EXPANSION



- To summarize the Whale Tail Pit Expansion Project, we present the following video – 3D rendering of the Project

## 3D rendering



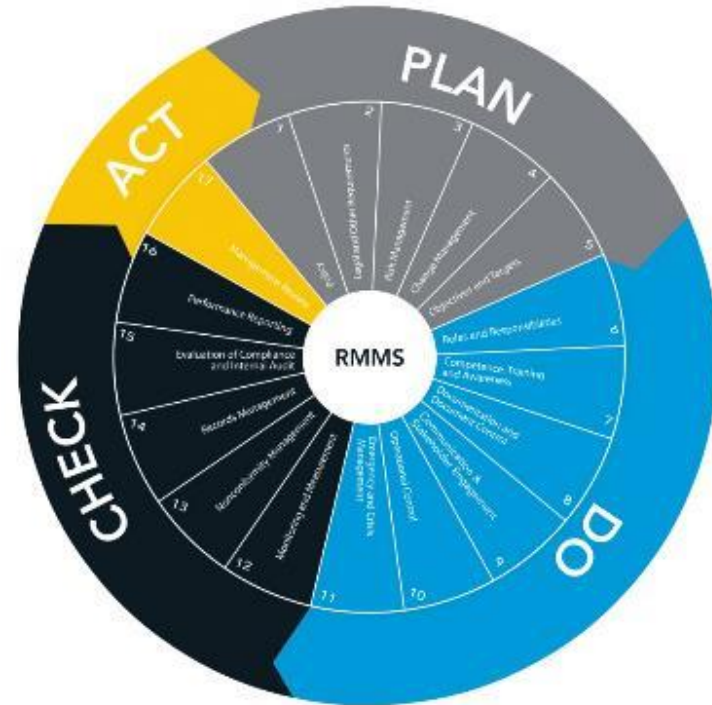
# PUBLIC ENGAGEMENT

## AGNICO'S INDIGENOUS PEOPLE ENGAGEMENT COMMITMENT



Agnico Eagle will work in partnership with Indigenous People to establish a mutually beneficial, cooperative and productive relationship. Our approach will be characterized by effective two-way communication, consultation and partnering.

Agnico's public participation framework is driven by our Responsible Mining Management System (RMMS).



# PUBLIC ENGAGEMENT

## AGNICO'S INDIGENOUS PEOPLE ENGAGEMENT COMMITMENT



### Plan

- Sustainable Development Policy
- Towards Sustainable Mining
- NIRB requirements
- IIBAs

### Do

- Community Coordinators
- Open Houses/Public Meetings
- Community Initiative Funds
- Community Liaison Committees

### Check

- Tusaajugut (We're Listening)
- IIBA committees
- External reporting (KIA/GN/SEMC, etc.)

### Act

- Management review
- External review (KIA, corporate stakeholder advisory committee)

# SUMMARY OF PUBLIC PARTICIPATION

60+

Meadowbank Complex project consultations and engagements (2016-2019)

20+

Whale Tail Pit Approved Project consultations and engagements (2016-2018)

8+

Whale Tail Pit Expansion Project consultations and engagements since July 2018



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NIRB PUBLIC HEARING – AUGUST 26-29 2019

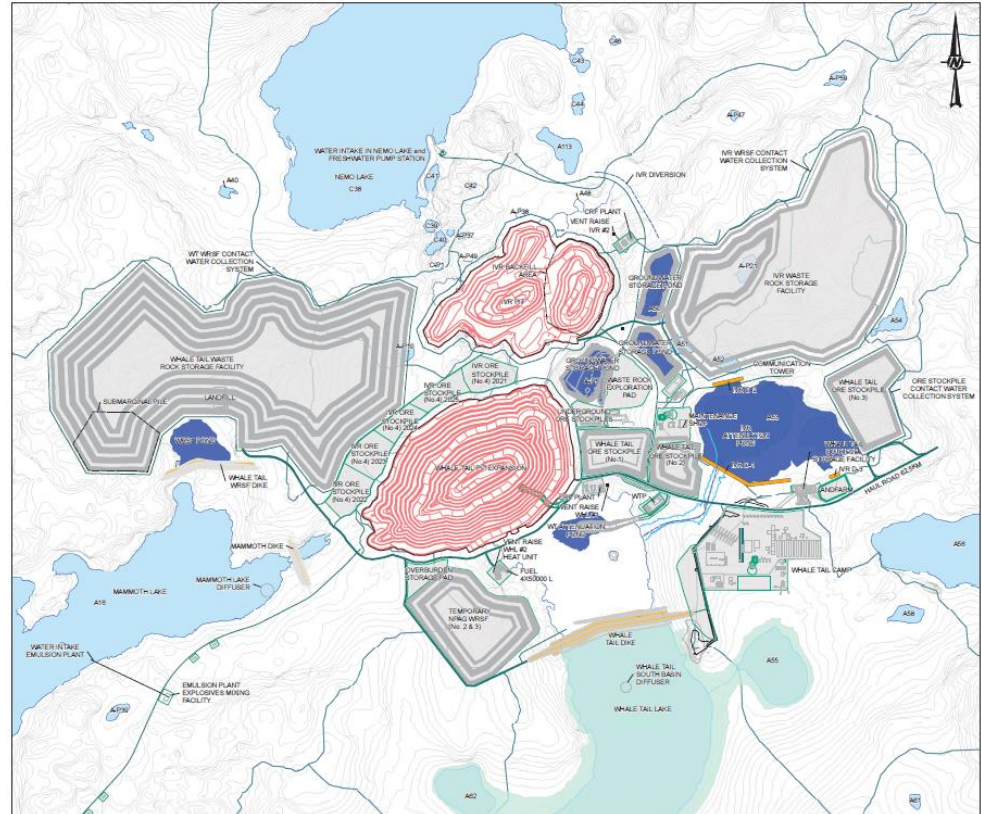


# WATER USE AND WASTE DISPOSAL



# WATER MANAGEMENT

- **Surface contact water**
  - Pits
  - Waste Rock Storage Facilities and water collection system
  - Attenuation Ponds
  - Operational Water Treatment Plant
  - Receivers
- **Underground contact water**
  - Underground mine
  - Groundwater Storage Ponds
  - Waste Rock Storage Facilities
  - Saline Water Treatment Plant
  - Receivers



# WATER USE DURING OPERATIONS



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Purpose	Approved Project		Expansion Project	
	Volume (Annual)	Source	Volume (Annual)	Source
Consumption (domestic camp use)	191,750 m <sup>3</sup>	Nemo Lake	209,544 m <sup>3</sup>	Nemo Lake
Dust suppression (site)	45,750 m <sup>3</sup>			
Dewatering (Completed under Fisheries and Oceans Canada authorization)	0 m <sup>3</sup>		153,735 m <sup>3</sup>	A53 and other lakes listed as per Application
Drilling	0 m <sup>3</sup>		109,135 m <sup>3</sup>	Small ponds/lakes proximal to drilling sites as per application
Emulsion plant	2,500 m <sup>3</sup>	Unnamed lake	2,500 m <sup>3</sup>	Mammoth Lake
Dust suppression (Haul Road) – Transferred from Licence 8BC-AEA1525	109,135 m <sup>3</sup>	Small ponds / lakes proximal to Haul Road	109,135 m <sup>3</sup>	Small ponds/lakes proximal to Haul Road
Subtotal	240,000 m <sup>3</sup> + 109,135 m <sup>3</sup>		584,049 m <sup>3</sup>	
Contingency (20%)	0 m <sup>3</sup>		116,810 m <sup>3</sup>	
Total	240,000 m <sup>3</sup> + 109,135 m <sup>3</sup>		700,859 m <sup>3</sup>	

# WATER USE DURING CLOSURE

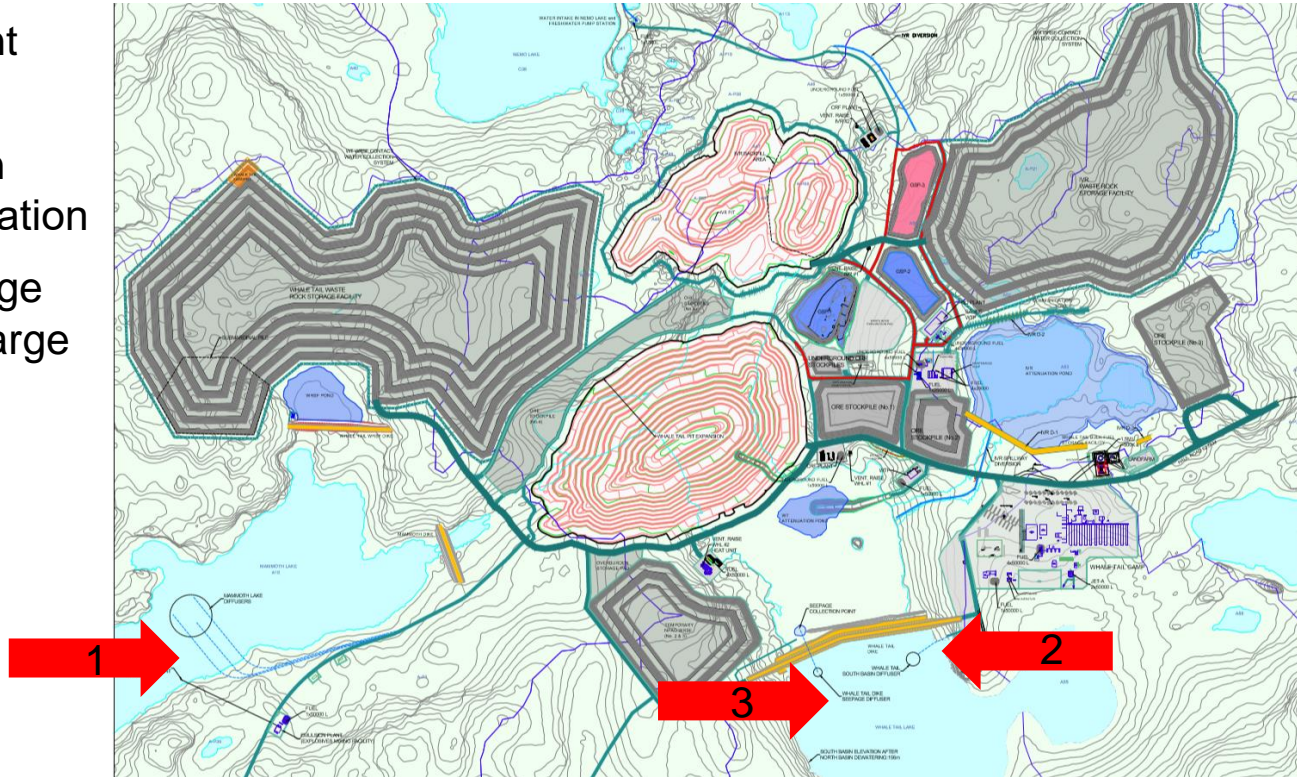


Purpose	Approved Project		Expansion Project	
	Volume (Annual)	Source	Volume (Annual)	Source
Re-flooding	10,637,400 m <sup>3</sup>	Whale Tail South Basin	10,655,000 m <sup>3</sup>	Whale Tail South Basin
Re-flooding	0 m <sup>3</sup>		1,710,000 m <sup>3</sup>	Lake D1
Consumption	17,600 m <sup>3</sup>	Whale Tail Lake South Basin	14,672 m <sup>3</sup>	Nemo Lake
Subtotal	10,655,000 m <sup>3</sup>		12,379,672 m <sup>3</sup>	
Contingency (20%)	0 m <sup>3</sup>		2,475,934 m <sup>3</sup>	
Total	10,655,000 m <sup>3</sup>		14,855,606 m <sup>3</sup>	



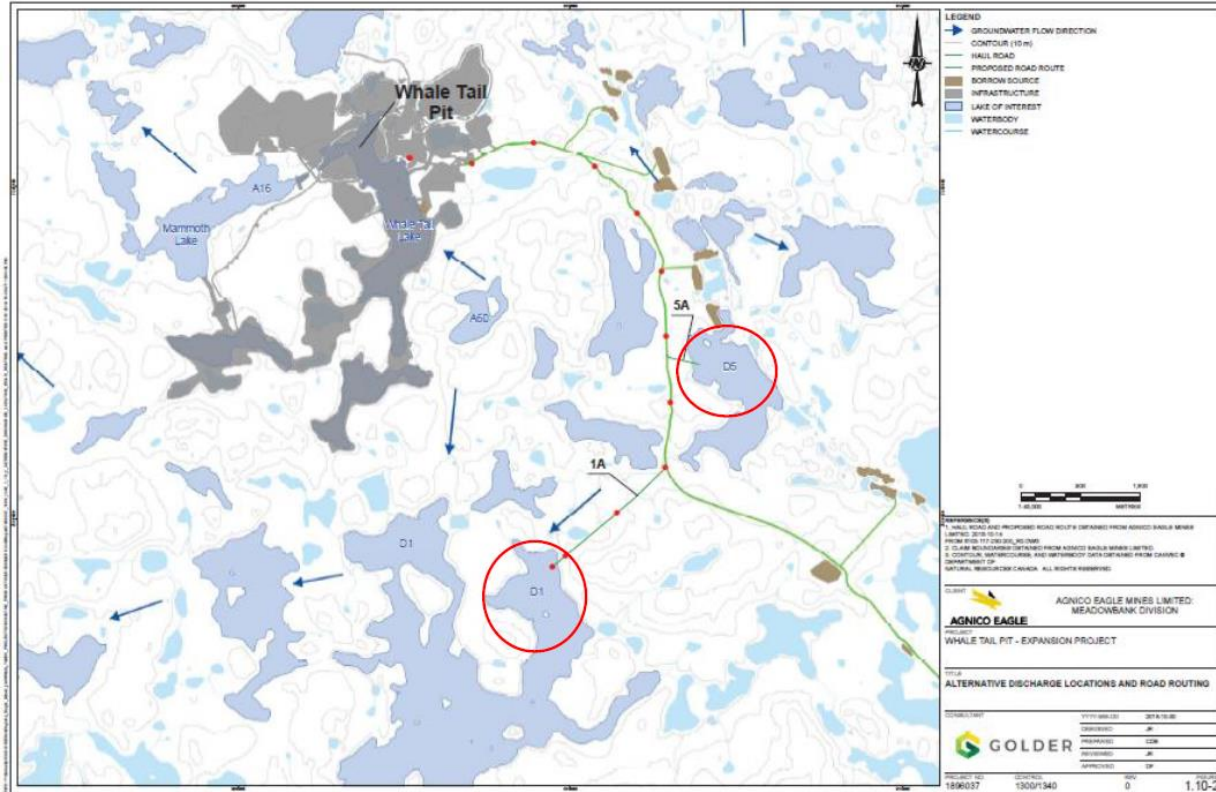
# CURRENT AND ADDITIONAL LOCATIONS FOR DISCHARGE OF TREATED EFFLUENT

1. Mammoth Lake Effluent Discharge Location
2. Whale Tail South Basin Effluent Discharge Location
3. Whale Tail Dike Seepage Collection Pond Discharge Location





# ALTERNATIVE LOCATIONS FOR DISCHARGE OF TREATED EFFLUENT



# WASTE MANAGEMENT



Description of infrastructure for disposal of different types of waste:

- Storage of waste rock in existing Whale Tail and new IVR and Waste Rock Storage Facilities
- Storage of overburden materials within Waste Rock Storage Facility and/or within Non-Potentially Acid Generating overburden stockpile
- Operation of existing landfill
- Construction and operation of new Incinerator/Composter and Landfarm
- Disposal of hazardous material in approved offsite facilities

# WASTE ROCK MANAGEMENT



- Waste rock management practices proposed are consistent with the Approved Project waste management strategy.
- Approximately 167.8 MT of waste rock generated by the Whale Tail Project
- Waste rock material sampled and tested to verify Acid-Rock Drainage and Metal Leaching potential in support of waste segregation (>40,000 samples/year)
- NPAG/NML material to be used for Construction and put aside for capping
- PAG material to be placed in Waste Rock Storage Facility and encapsulated within NPAG/NML material during progressive closure and closure.
- Underground waste rock temporarily stored on surface before being returned underground as backfill material.
- Waste rock storage facility will be monitored to demonstrate geochemical stability, safe environmental performance and efficiency of the waste management procedure.

# CLOSURE, RECLAMATION AND SECURITY



## CLOSURE AND RECLAMATION

- Interim Closure and Reclamation Plan
- Final Closure and Reclamation Plan
- Water Quality and reconnection of flooded pit lake



## SECURITY

- Reclamation Cost Estimate
  - Approved Project Type A: \$26,286,000
  - Approved + Expansion Project Type A: \$50,663,508
  - Type B: \$1,200,650
- Security Management Agreement

## REVISIONS TO MANAGEMENT AND MONITORING PLANS



# MANAGEMENT AND MONITORING PLANS

- New Plans Created to Address Expansion Project activities:
  1. Adaptive Management Plan
  2. Conceptual Whale Tail Pit Expansion Offsetting Plan
  3. Landfarm Design and Management Plan
  4. Incinerator and Composter Waste Management Plan
- All other plans submitted with the Water Licence Amendment were updates of existing plans to capture Expansion Project activities
- Agnico Eagle is asking for the Board to approve all of these plans with the issuance of the amended licence.



## MANAGEMENT AND MONITORING PLANS

- Agnico Eagle is committed to updating the following plans 60 days following issuance of amended Water Licence 2AM-WTP1826:
  - Whale Tail Pit Waste Rock Management Plan (V5, May 2019);
  - Whale Tail Pit Water Management Plan (V4, May 2019);
  - Whale Tail Pit Interim Closure and Reclamation Plan (V3, December 2019);
  - Spill Contingency Plan (V7, April 2019);
  - Hazardous Materials Management Plan: Meadowbank Mine Site, Whale Tail Pit Site, Baker Lake Facilities (V4, May 2019); and
  - Emergency Response Plan (V1, May 2019).

# CONCLUSION





# CONCLUSION



- Agnico Eagle responded to Final Written Submissions made by Interveners
- Nunavut Water Board to issue recommendation report to Minister following conclusion of public hearing
- Minister to approve/reject Nunavut Water Board recommendation
- Agnico Eagle to finalize permitting process for Whale Tail Expansion Project
- Construction to commence in 2020 when all permits/approvals received





**AGNICO EAGLE**



**MATNA - THANK YOU**