Appendix 14

Whale Tail Water Management Plan Version 12



Meadowbank Division

WHALE TAIL MINE

Water Management Plan

MARCH 2024 VERSION 12

EXECUTIVE SUMMARY

Agnico Eagle Mines Limited – Meadowbank Complex (Agnico Eagle) is developing the Whale Tail Mine (Project), a satellite deposit located on the Amaruq property, to extend mine operations and milling at Meadowbank Mine. In 2020 the Whale Tail Expansion Project (Expansion Project) was approved, permitting Agnico Eagle to expand and extend the Whale Tail Mine operations to include a larger Whale Tail open pit, development of the IVR open pit, and underground operations while continuing to operate and process ore at the Meadowbank Mine. In 2021 a positive conformity determination application was issued by the Nunavut Planning Commission for pushbacks on the IVR and Whale Tail pits (Pushback Project).

The Amaruq property is a 408 square kilometre (km²) site located on Inuit Owned Land (IOL) approximately 150 kilometres (km) north of the hamlet of Baker Lake and approximately 50 km northwest of Meadowbank Mine in the Kivalliq Region of Nunavut. The deposit is currently being mined as two open pits (i.e., Whale Tail Pit and IVR Pit) and underground operations, and ore is hauled to the approved infrastructure at Meadowbank Mine for milling.

In 2021, approvals were provided for pushbacks on the IVR and Whale Tail pits (Pushback Project). The Water Management Plan v11_NWB was updated to reflect the continuation of the Whale Tail Pushback, continuation of the IVR Pushback, and temporary storage of groundwater in IVR Pit (referred to as the 2023 Modification).

The open pit mine, mined by drill and blast operations, includes four development phases: 1 year of construction (complete), 7 years of mine operations, 17 years of closure, and the post closure period. On September 30th, 2019, commercial production began at the Whale Tail Pit. The mine will produce in total 24.5 million tonnes (Mt) of ore, 186.2 Mt of waste rock, and 5.4 Mt of overburden waste. The 2023 Modification is within the approved mine production and includes the generation of 0.8 Mt of ore and produces 3.0 Mt of additional waste material (rock and overburden) which will be stored in the existing Waste Rock Storage Facilities (WRSF). Non-leachable material will also be stored in the pits. The 2023 modification does not affect the life of mine, which will remain in operation until 2025.

The water management objectives for the Project are to minimize potential impacts to the quantity and quality of surface water at the mine site. Water management structures (water retention dikes/berms and diversion channels) have been and will be constructed, dependent on the potential presence and volume of water, to contain and manage the contact water from the areas affected by the mine or mining activities. The major water management infrastructure includes contact water collection ponds, diversion channels, water retention dikes, culverts, seepage collection systems, water treatment plants for effluent, a potable water treatment plant, a sewage treatment plant, and discharge diffusers.

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This Water Management Plan for the Project describes the main objectives pertaining to water management, which are to limit the flow of surface water runoff in the pit and to limit the impact on the local environment. In developing the water management plan, the following principles were followed:

- keep the different water types separated as much as possible.
- control and minimize contact water through diversion and containment.
- minimize freshwater consumption by recycling and reusing the contact and process water wherever feasible; and
- meet discharge criteria before any site contact water is released to the downstream environment.

During mine construction and operations, contact water originating from affected areas on surface is intercepted, diverted, and collected within the various collection ponds. The collected water on the mine site is pumped and stored in the Whale Tail Attenuation Pond and IVR Attenuation Pond, where the contact water is treated by the Water Treatment Plant (WTP) (as required according to water quality) prior to discharge to the receiving environment or reused in the operations. The 2023 modification includes the temporary storage of groundwater in IVR Pit, per approved Adaptive Management Plan (Agnico Eagle 2021).

During operations, site contact water quality is predicted to exceed established effluent criteria (i.e., under the Whale Tail Water Licence (2AM-WTP1830)) in the Whale Tail Waste Rock Storage Facility (WRSF) Pond and in the Whale Tail Pit sump. Therefore, this water is controlled by the Whale Tail WRSF Dike and the Whale Tail WRSF Pond. The Whale Tail WRSF Pond water will report with all other contact water and will be mixed in the Whale Tail and IVR Attenuation Ponds and treated during operations.

During operations when the mine is at its maximum footprint, the conservative predictions of future water quality indicate that most parameter concentrations in the downstream environment are below CEQG-AL. A site wide water balance will be updated yearly, and end pit water quality modelling will be updated yearly to update predictions.

Water management during closure and reclamation will involve actively filling the underground facilities and IVR Pit, and passively allowing the Whale Tail Attenuation Pond and the Whale Tail Pit to flood. The Groundwater Storage Ponds and IVR Attenuation Pond will be emptied at the start of closure and backfilled with NPAG/non-ML waste rock. The groundwater temporarily stored in IVR Pit will be pumped to the underground void space prior to actively filling IVR Pit. The Whale Tail and IVR WRSFs will be progressively covered with NPAG/non-ML waste rock throughout operations and are expected to be completely covered at the beginning of closure. The pushback in IVR pit will be backfilled with NPAG-non-ML rock material and filled by natural flow. Contact water management systems will remain on site until monitoring results demonstrate that water quality is acceptable for discharge of all contact water to the environment without further treatment. Once water quality



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meets the discharge criteria, the water management systems will be decommissioned to allow the water to naturally flow to the receiving environment. Through best management practices and mitigation, the predicted water quality of Whale Tail Lake (North Basin) meets aquatic life guidelines post-closure. The projected water quality in Kangislulik Lake is predicted to meet guidelines in post-closure for all constituents of potential concern (including chloride, fluoride, nitrate, and total selenium, as identified in the 2018 FEIS), with the exception of Aluminum, chromium, copper, iron, and phosphorus.

The updated water quality data shows a stable trend in the water quality indicators. At closure and post-closure, flooded pit water quality is predicted to meet receiving water quality criteria when flooding is complete, allowing reconnection with the downstream receiving environment.

Dikes will not be breached until the water quality in the flooded area meets the approved water quality objectives. During mine closure, no mine discharges will occur to the downstream receiving environment since all contact waters are diverted to the open pit, underground and Whale Tail Lake (North Basin) for re-flooding.

DOCUMENT CONTROL

Version	Date	Section	Page	Revision	Author
1	January 2017			Water Management Plan for the Whale Tail Pit	Agnico Eagle Meadowbank Division and Golder Associates Ltd.
2	September 2018	All	All	Water Management Plan for the Whale Tail Pit	Agnico Eagle Meadowbank Division and SNC-Lavalin Inc.
3	October 2018	3.1.4.11 3.3.1	23 32	Updated to align with recommendations issued by CIRNAC, ECCC and KIA in October 2018	Agnico Eagle Meadowbank Division
4	March 2020	All	All	Updated to reflect current operations/water mgmt and to comply with commitments and requests	Agnico Eagle Meadowbank Division
5	July 2020	All	All	Water Management Plan for the Whale Tail Pit – including Expansion Project	Agnico Eagle Meadowbank Division
6	April 2021	All	All	Updated to reflect current operations/water mgmt and to comply with commitments and requests	Agnico Eagle Meadowbank Division
7_NWB	June 2021	3.7.12 3.10 5.0 Appendices	i-ii 33 42 49 N.A.	Updated to include Pushback Project Added new section Figure on pushback in IVR Adaptive Mgmt Updated WQ models	AEM – Permitting & Regulatory Affairs (all changes)
8	December 2021	3.4 3.8	17 37	Clarification on wording for source of water use for emulsion plant	Agnico Eagle Meadowbank Division
9	March 2022	All	All	Updated to reflect current operations/water mgmt and to comply with commitments and requests	Agnico Eagle Meadowbank Division
10	March 2023	3.1, 4	All	Section 3.1 water management targets, Section 4 water quality forecast update	Agnico Eagle Meadowbank Division
11_NWB	June 2023			Updated to include the 2023 Modification (Pushbacks and IVR Pit temporary storage) Updates are flagged in the right-hand margin using the following:	Agnico Eagle Permitting & Regulatory Affairs
12	March 2024	All	All	Updated to reflect current operations/water mgmt and to comply with commitments and requests.	Agnico Eagle Meadowbank Division



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Mammoth Lake called Kangislulik Lake

Section 1: Removed mention of material in IVR pushback

Table 3.1: Added target 2024 water objectives and removed 2021.

3.5.1 Infrastructure Summary and 3.10.1 Flooding sequence: Changed inlet of SWTC to 154.25 masl

Removed section 3.7.6 Water Management for overburden storage: All overburden was codisposed.

3.7.13 Water Management for Landfill: Updated information

Section 3.7.17: Refined information.

Section 3.8 Freshwater management and section 3.10.1 Flooding sequence: Updated duration for reflooding of Whale tail Pit

Section 4: Water quality forecast: Updated information and add note for ongoing work

Approved by:

Eric Haley – Environment & Critical Infrastructure Superintendent



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ACRONYMS

Agnico Eagle Agnico Eagle Mines Limited – Meadowbank Complex

ARD Acid Rock Deposition

CCME Canadian Council of Ministers of the Environment
DFO Department of Fisheries and Oceans Canada

Expansion Project Whale Tail Pit – Expansion Project
FEIS Final Environmental Impact Statement

IOL Inuit Owned Land

LOM Life of Mine

NIRB Nunavut Impact Review Board

NWB Nunavut Water Board

NE North-East

OMS Operation, Maintenance, and Surveillance

PGA Peak Ground Acceleration
Plan Water Management Plan

Project Whale Tail Mine

Pushback Project Whale Tail and IVR Pit – Pushback Expansion Project

STP Sewage Treatment Plant
TSF Tailings Storage Facility
TSS Total Suspended Solids
WRSF Waste Rock Storage Facility

WSER Wastewater System Effluent Regulations

WTP Water Treatment Plant

WT Whale Tail

WTSC Whale Tail South Channel



UNITS

± plus or minus< less than% percent

°C degrees Celsius

°C/m degrees Celsius per metre

km kilometre(s)

km² square kilometre(s)

L/day/person litres per person per day masl metre(s) above sea level

mbgs metre(s) below ground surface

mg/L milligrams per litre

m metre
mm millimetre
m³ cubic metre(s)

m³/day cubic metres per day m³/hour cubic metres per hour m³/year cubic metres per year

Mm³/year million cubic metre(s) per year

Mm³ million cubic metre(s)

t tonne

Mt million tonne(s)

SECTION 1 • INTRODUCTION

Agnico Eagle Mines Limited – Meadowbank Complex (Agnico Eagle) is currently operating the Whale Tail Mine (Project), a satellite deposit located on the Amaruq property, and continues to feed the mill at Meadowbank Mine. In 2020 the Whale Tail Expansion Project (Expansion Project) was approved, allowing Agnico Eagle to expand and extend the Whale Tail Pit operations to include a larger Whale Tail open pit, development of the IVR open pit, and underground operations while continuing to operate and process ore at the Meadowbank Mine. In 2021, approvals were provided for pushbacks on the IVR and Whale Tail pits (Pushback Project). The Water Management Plan V11_NWB was updated to reflect the continuation of the Whale Tail Pushback, continuation of the IVR Pushback, and temporary storage of groundwater in IVR Pit (referred to as the 2023 Modification). The Amaruq property is a 408 square kilometre (km²) site located on Inuit Owned Land approximately 150 kilometres (km) north of the hamlet of Baker Lake and approximately 50 km northwest of Meadowbank Mine in the Kivalliq Region of Nunavut. The deposit will be mined as two open pits (i.e., Whale Tail Pit and IVR Pit) and underground operations, and ore will be hauled to the approved infrastructure at Meadowbank Mine for milling.

The open pits and underground mine, mined by truck-and-shovel operation, includes four development phases: 1 year of construction (complete), 7 years of mine operations, 17 years of closure, and the post closure period. The ore milling period for the Whale Tail project is planned over an eight-year period, from 2019 to 2026 will not change as part of the 2023 modification.

The construction and preparation of material started in summer 2018 after all permits and authorizations were received, and construction of the dikes started in the third quarter of Year -1 (2018). Focus on site preparation and construction of infrastructure, with the development of the open pit to produce construction material continued in 2018 and 2019. On September 30th, 2019, commercial production began.

Waste rock and overburden will be stored in the Waste Rock Storage Facility (Whale Tail WRSF and IVR WRSF) and ore will be stockpiled on the ore pads. The waste rock storage footprint, water management infrastructure, and camp have been designed and consider up to eight years of production to allow for expected resource growth. The underground WRSF (AP-5 location) that was permitted under the Type B will be expanded and became a facility regulated under the Type A Water Licence (2AM-WTP1830). Agnico Eagle might increase the footprint of the underground area to the north to accommodate additional waste storage. The existing tailings facility at Meadowbank Mine will continue to be used for tailings disposal. All tailings treatment and disposal will remain consistent with the current Project Certificate (No. 004).

As per the Interim Closure and Reclamation Plan (ICRP), closure will occur from Year 8 (2026) to Year 24 (2042) after the completion of milling and will include removal of the non-essential site infrastructure and filling of the mined-out open pits and underground mine as well as reestablishment

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of the natural Lake A17 (Whale Tail Lake) level. Only essential infrastructure related to water treatment will remain on site during the closure and post-closure phases. Accordingly, in addition to the Water Treatment Plant (WTP), minimal infrastructure allowing camp autonomy and security, as well as site roads, will be maintained following the operational phase (see more information in the Whale Tail Pit Interim Closure and Reclamation Plan). Post-closure is expected from Year 25 (2043) onwards. The closure schedule for the overall Project is based on the preliminary closure methods and strategies discussed in the Whale Tail ICRP. It is anticipated that the schedule will be refined throughout the Project life as the designs are advanced, and the closure methods and strategies are further developed. Site and surrounding environment monitoring started from the beginning of the construction and will be completed during the post-closure phase when it is shown that the site and water quality meets the regulatory closure objectives.

Table 1.1 summarizes the overview of the timeline and general activities.

Table 1.1 Overview of Timeline and General Activities

Phase Year Gene		General Activities
		Construct site infrastructure
Construction	Year -1	Develop open pit mine
		Stockpile ore
		Open pits operations
		Underground operations
	Year 1 to 7	Transport ore to Meadowbank Mine
Operations		Stockpile ore
		Discharge Tailings in Meadowbank TSF
	Year 8	Complete transportation of ore to Meadowbank Mine
	Year 8	Complete discharge of tailings in Meadowbank TSF
		Remove non-essential site infrastructure
Closure	Year 9 to 24	Flood mined-out open pits and underground operations
		Re-establish natural Whale Tail Lake level
Post-Closure	Year 25 onwards	Site and surrounding environment monitoring

TSF = Tailings Storage Facility

This document presents the Water Management Plan (Plan) for the Project in accordance with Part E Item 5 of the Nunavut Water Board (NWB) Water License 2AM — WTP1830 including modifications stemming from the Pushback Project. It is a requirement of the License that an updated Water Management Plan be submitted on an annual basis following the commencement of Operation. The Plan must include an updated Water Balance and actions to be implemented if predicted re-flooded pits water quality indicate that water treatment is necessary.



SECTION 2 • BACKGROUND INFORMATION

2.1 Site Conditions

The general mine site location for the Project is presented in Figure 2.1.

2.1.1 Climate

Climate characteristics presented herein were extracted from the permitting level engineering report (SNC 2015).

The Project is in an arid arctic environment that experiences extreme winter conditions, with an annual mean temperature of -11.3 degrees Celsius (°C). The monthly mean temperature ranges from -31.3°C in January to 11.6°C in June, with above-freezing mean temperatures from June to September. The annual mean total precipitation at the Project is 249 millimetres (mm), with 59 percent (%) of precipitation falling as rain, and 41% falling as snow. Mean annual losses were estimated to be 248 mm for lake evaporation, 80 mm for evapotranspiration, and 72 mm for sublimation. Mean annual temperature, precipitation, and losses characteristics are presented in Table 2.1.

Short-duration rainfall, representative of the Project are presented in Table 2.2, based on intensity-duration-frequency curves available from the Baker Lake A meteorological station (Station ID 300500) operated by the Government of Canada (2015).



Figure 2.1 Location of the Project

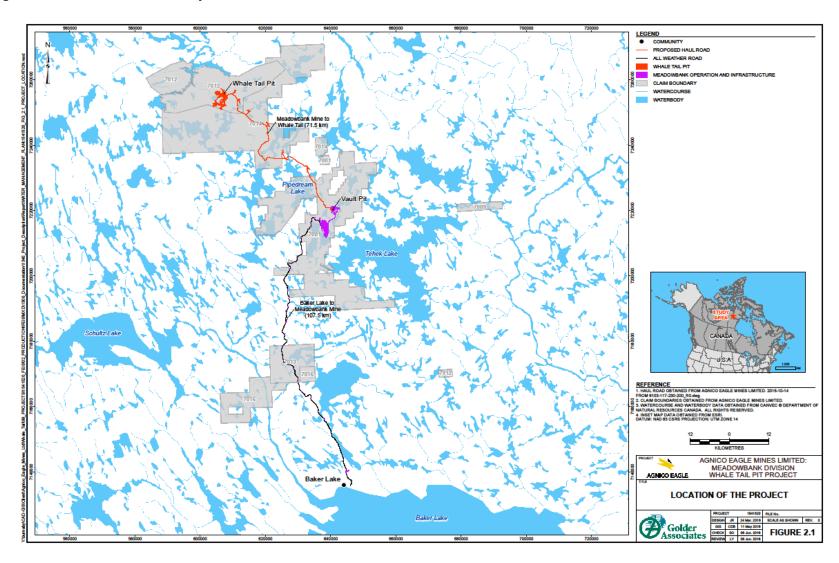




Table 2.1 Estimated Mine Site Monthly Mean Climate Characteristics

		Monthly Precipitation (mm) ^a			Losses ^a		
Month ^a	Mean Air Temp. (°C) ^a	Rainfall (mm)	Snowfall Water Equivalent (mm)	Total Precip. (mm)	Lake Evap. (mm)	Evapo- transpiration (mm)	Snow Sublimation (mm)
January	-31.3	0	7	7	0	0	9
February	-31.1	0	6	6	0	0	9
March	-26.3	0	9	9	0	0	9
April	-17.0	0	13	13	0	0	9
May	-6.4	5	8	13	0	0	9
June	4.9	18	3	21	9	3	0
July	11.6	39	0	39	99	32	0
August	9.8	42	1	43	100	32	0
September	3.1	35	7	42	40	13	0
October	-6.5	6	22	28	0	0	9
November	-19.3	0	17	17	0	0	9
December	-26.8	0	10	10	0	0	9
Annual	-11.3	146	103	249	248	80	72

^a SNC (2015).

 Table 2.2
 Estimated Mine Site Extreme 24-Hour Rainfall Events

Return Period (Years) ^a	24-hour Precipitation (mm) ^a
2	27
5	40
10	48
25	57
50	67
100	75
1000	101

^a SNC (2015).

mm = millimetre.

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[°]C = degrees Celsius; mm = millimetre.

2.1.2 Permafrost and Hydrogeology

2.1.2.1 Permafrost Conditions and Assessment

Thermal assessments have been completed that contribute to the understanding of the permafrost conditions near the Whale Tail Pit, IVR Pit, and Underground Mine. An update of the Whale Tail Thermal Assessment was conducted in April 2019 (Golder 2019b). The thermal assessment evaluated existing permafrost characteristics in the Whale Tail Lake and Project area and existing talik conditions under the Whale Tail Lake adjacent to the Project. The thermal assessment was completed based on available thermistor data to date, as well as the results of a thermal 2D modelling exercise and 3D block model prepared to assess permafrost conditions and the extent of talik formations beneath the Whale Tail Lake.

The updated thermal assessment of the project also took into consideration the groundwater monitoring program (Westbay well sampling) that took place in November 2018 (Golder 2019b). The 2018 groundwater monitoring program indicates that water samples were collected from fixed ports along the Westbay system between 276 m and 499 m below the ground surface, which suggests that the Westbay system is installed in open talik, or water sampling would not have been possible at depth.

The mine site is located in an area of continuous permafrost, as shown on Figure 2.2. Based on measurements of ground temperatures (Knight Piésold 2015), the depth of permafrost at the mine site is estimated to be in the order of 425 metres (m) outside of the influence of waterbodies. The depth of the permafrost and active layer will vary based on proximity to the lakes, overburden thickness, vegetation, climate conditions, and slope direction. The typical depth of the active layer is 2 m in this region of Canada. The estimated depth of zero amplitude from the temperature profiles ranges from 18 m to 35 m. The temperatures at the depths of zero amplitude are in the range of -3.1 °C to -8.6 °C for on land thermistors and 2.7 °C for AMQ17-1265A. The geothermal gradient estimated based on the lowest 70 to 100 m of the thermistor strings is in the range of 0.004 °C/m (AMQ15-294) to 0.052 °C/m. Late-winter ice thickness on freshwater lakes is approximately 2.0 m. Ice covers usually appear by the end of October and are completely formed in early November. The spring ice melt typically begins in mid-June and is complete by early July.

The information presented in the following section is based on the updated report *Hydrogeological Assessment and Modelling Whale Tail Pit - Expansion Project* (Golder 2019e). The following summarizes the updated understanding of permafrost conditions in the Expansion Project Area:

- The depth of permafrost outside of the influence of lakes is estimated to be between 452 m and 522 m based on thermal gradients and ground temperatures at the lowest portions of the thermistor strings. The depth of permafrost increases with increasing distance from lakes with talik.
- Considering the 2D thermal modelling and 3D block model, the assessment indicated that:

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- Under the northern portion of the lake below Whale Tail Pit, there is likely a closed talik formation (Section C of the thermal modelling report).
- Open talk conditions are probable in the southern portion of the lake where the Whale Tail Lake becomes wider (Section G of the thermal modelling report).
- Permafrost depth is between 480 m and 550 m for ground away from the Whale Tail Lake, and between 350 m and 450 m below surface in portions beneath the Whale Tail Lake where a closed talik is present.
- o The cryopeg thickness is likely between 20 m to 30 m.

2.1.2.2 Groundwater Flow Regime

Groundwater characteristics at the mine site are detailed in the Expansion Project Final Environmental Impact Statement (FEIS), Addendum Volume 6, Section 6.3. The hydrogeological model was updated in May 2019 with hydrogeological modelling completed for the Expansion Project since submission of the FEIS addendum in December 2018 (Golder 2019e). The model was updated based on results of monitoring at the Westbay system in November 2018, supplemental packer testing in December 2018, and additional 2D and 3D thermal analysis in 2019. The updated hydrogeological model was then used to provide revised predictions of groundwater inflow and total dissolved solids (TDS) concentrations during dewatering, mining, pit and underground flooding, and long-term post-closure (reflooded) conditions.

Two groundwater flow regimes occur at the Expansion Project: a deep groundwater flow regime beneath permafrost and a shallow groundwater flow system located in the active (seasonally thawed) layer near the ground surface. Except for areas of talks beneath lakes, the two groundwater regimes are isolated from one another by thick permafrost.

Groundwater flow within the deep groundwater flow regime is limited to the sub-permafrost zone. This deep groundwater flow regime is connected to ground surface by open taliks underlying larger lakes. The elevations of these lakes are the primary control of groundwater flow directions in the deep groundwater flow regime, with density gradients providing a potential secondary control. The elevations of these lakes in the baseline study area indicate that Whale Tail Lake is likely a groundwater discharge zone at the south end of the Lake, with flow from Lake A60 to Whale Tail Lake, and a groundwater recharge zone at the north end of the Lake, with flow from Whale Tail Lake to Lake DS1 (Figure 2.3).

While portions of Whale Tail Pit are located within unfrozen rock, the IVR Pit and the Underground Project are fully contained within permafrost as per current planning. Groundwater inflow is therefore only expected during operations in the Whale Tail Pit.

Mining of the Whale Tail Pit occurs within the talik underlying Whale Tail Lake, whereas the latest version of the Underground Project is located in permafrost. The Underground is not directly connected to either Whale Tail Pit or IVR Pit.



During mining, the Whale Tail Pit will act as a sink for groundwater flow, with seepage faces developing along portions of the pit walls. In response to the deepening of the mine workings, groundwater will be induced to flow through bedrock to the Whale Tail Pit. Mine inflow will originate primarily from Whale Tail Lake (South Basin), the Whale Tail Attenuation Pond, and deep bedrock underlying the permafrost.



Figure 2.2 Permafrost Map of Canada

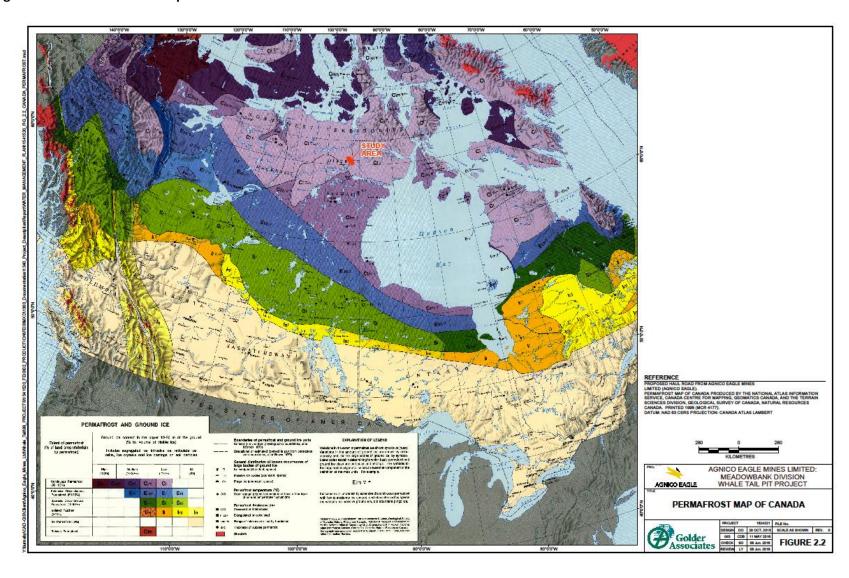
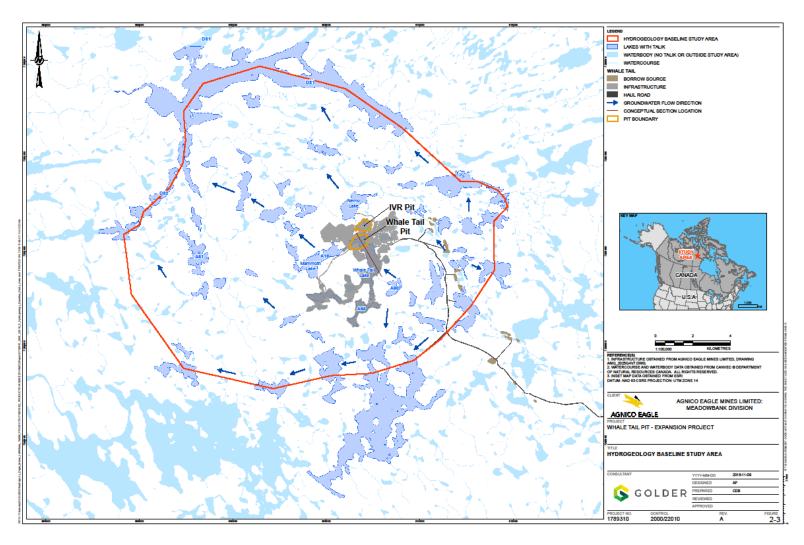




Figure 2.3 Hydrogeology Baseline Study Area





2.1.3 Hydrology and Watershed

Hydrology characteristics were extracted from the surface water quantity impact assessment section (FEIS, Addendum Volume 6, Section 6.3; Volume 6, Appendix 6-C).

The mine site is located in the A watershed (i.e., where Lake A17 [Whale Tail Lake] and Lake A16 [Kangislulik Lake] are located), and water management activities are planned in the A watershed and the C watershed (i.e., where Lake C38 [Nemo Lake] is located); these two watersheds drain into Lake DS1, which drains north to the Meadowbank River. These watersheds comprise an extensive network of lakes, ponds, and interconnecting streams, and have lake water surface fractions (i.e., the ratio of lake area to watershed area) of 16% (A watershed) and 23% (C watershed).

Shorelines in the mine site area exhibit a consistent terrain type related to shorelines that have developed in morainal material. These morainal shorelines were observed at all lakes visited during the 2015 field survey. Limited areas of bedrock and shallowly sloped sandy shorelines were also observed. As a general characteristic for the surveyed shorelines, the predominant materials are boulder gardens mixed with cobble with very limited soils or organic materials on top. The outlet channels are relatively short with a low sinuosity (i.e., close to 1.0) and exhibit the same characteristics for streambed materials, which results in interstitial flow through large boulders or below the surface likely close to the bedrock, making flow difficult to observe and measure.

Discharges of watercourses in the mine site area typically peak in late-May to mid-June from snowmelt, rapidly decline in July, and low discharges prevail until frozen conditions in October to November, with a secondary peak in September from rainfall events. Watercourses in the Project area are frozen over the winter.

Derived long-term mean annual water yield for selected lakes in the mine site area vary between 86 mm at Lake C38 (Nemo Lake) to 230 mm at Lake A69. These water yields are similar to regional water yields reported at the Meadowbank Mine.

2.1.4 Surface Water Quality

Water quality characteristics were extracted from the water quality baseline report (FEIS, Volume 6, Appendix 6-G, Agnico Eagle, 2016) and the water quality impact assessment section (FEIS, Volume 6, Section 6.4, Agnico Eagle, 2016). Baseline water quality sampling was conducted at lakes and tributaries in various watersheds in the study area during open-water conditions in 2014 and 2015.

Surface water collected from lakes during the open water season was characteristic of low productivity headwater lakes in the Arctic; soft water, with low alkalinity, low turbidity (and corresponding high Secchi depth) and low total suspended solids (TSS). There was minor thermal stratification evident at some deeper lake stations. The water columns of lakes are well oxygenated, and pH was neutral to slightly acidic. The majority of water chemistry parameter concentrations were below the analytical detection limit and below the Canadian Council of Ministers of the Environment



water quality guidelines for the protection of aquatic life (CCME, 1999) and the Canadian drinking water guidelines (Health Canada, 2014).

Samples collected from the tributaries showed them to be well oxygenated, with low conductivity, and neutral to slightly alkaline pH. As with the lakes, most of the water chemistry parameter concentrations were below the aquatic life and drinking water quality guidelines.

2.1.5 Climate Change

Climate change information presented herein was extracted from the air quality impact assessment section (FEIS, Addendum Volume 4, Section 4.2).

The climate in the Arctic is changing faster than at mid-latitudes (IPCC, 2014). The most recent set of climate model projections (CMIP5) predict an Arctic-wide year 2100 multi-model mean temperature increase of +13°C in late fall and +5°C in late spring under the IPCC's "business as usual scenario" (RCP8.5). IPCC climate change mitigation scenario RCP4.5 results in a year 2100 multi-model Arctic wide prediction of +7°C in late fall and +3°C in late spring (Overland et al., 2013). The effects of changes of this magnitude to terrestrial, aquatic and marine ecosystems, and social and economic systems of the Arctic are an active area of research. However, the short duration of the proposed Project means that climate change related effects to the Project are likely negligible.

2.1.6 Seismic Zone

The mine site is in an area of relatively low seismic risk. The peak ground acceleration (PGA) for the area was estimated using the seismic hazard calculator from the 2010 National Building Code of Canada website (http://www.earthquakescanada.nrcan.gc.ca/hazard-alea/interpolat/index_2010-eng.php). The estimated PGA is 0.019 g for a 5% in 50-year probability of exceedance (0.001 per annum or 1 in 1,000-year return) and 0.036 g for a 2% in 50-year probability of exceedance (0.000404 per annum or 1 in 2,475-year return) for the area.

2.2 Mine Operations Description

2.2.1 Mine Development Plan

Whale Tail Open Pit, IVR Open Pit, and Underground mining will be mined using the traditional open pit method and long hole mining (95%) with some mechanized cut and fill in flat areas. The mining is planned from 2019 to 2025, while milling will continue through 2026.

Two mine waste streams will be produced at Whale Tail Pit: waste rock and overburden. Ore will be stockpiled in a series of stockpiles located adjacent to the pits. As ore is transported to the Meadowbank Mine for processing, a third mine waste stream, tailings, will be produced at Meadowbank Mine (refer to the Whale Tail Mine – Waste Rock Management Plan, Agnico Eagle, 2024a). The operation, management, and monitoring of the Meadowbank TSF is regulated under the Agnico Eagle Type A Water Licence 2AM-MEA1530.



The mine development includes the following infrastructure:

- industrial area (camp, power plant, heli-pad, landfarm and garage)
- crusher
- ore stockpiles
- rock and overburden storage facilities
- landfill
- haul and access roads
- underground mine
- two open pits

In addition, the mine development will include construction of water management facilities, listed in Section 3.1.2.

2.2.2 Summary of Mine Waste Management

This section is a summary of the mine waste management plan. More detailed information on mine waste management is presented in the Whale Tail Mine – Waste Rock Management Plan, Agnico Eagle, 2024a. Water management associated with mine waste management is described in Section 3 of this document. Two areas of the site were identified as the Whale Tail WRSF and the IVR WRSF to store waste rock and overburden material, as shown in Appendix A. Table 2.3 presents a summary of the proposed usage or destination for the waste material.

Table 2.3 Summary of Mine Waste Destination

Mine Waste Stream	Waste Destination			
Overburden	Co-disposed with waste rock in Whale Tail WRSF			
	Construction material Minch Tail MIRSE and MIR MIRSE.			
Waste Rock	 Whale Tail WRSF and IVR WRSF Underground backfill material 			
Waste Nock	IVR Pit Pushback backfill material			
	Closure and site reclamation, fish habitat compensation			
Tailings	 As slurry tailings placed in the approved Meadowbank Mine tailings storage facility 			

WRSF = Waste Rock Storage Facility



SECTION 3 • WATER MANAGEMENT AND WATER BALANCE

3.1 Water Management Objectives and Targets

The main objectives pertaining to water management for the Project are to limit and/or stop the flow of surface water runoff in the pit and to limit the impact on the local environment. The key objectives for water management are:

- Keep the different water types (i.e., contact, non-contact, and freshwater) separated to the extent practical
- Control and minimize contact water through diversion and containment
- Minimize freshwater usage by recycling and reusing the contact water to the extent practical
- Meet discharge criteria before any site contact water is released to the downstream environment
- No events of non-compliance with regards to:
 - Regulatory/Water License water quality criteria (effluent loading limits)
 - Regulatory/Water License freshwater withdrawal criteria

The water management targets are summarized in Table 3.1. These targets are aligned with the water objectives of the Whale Tail Project and go beyond the License limit. These targets strive to minimize risk, conserve freshwater, and minimize water usage. The 2024 targets assume continued improvements in the amount of contact water withdrawn from the Pit. Higher production rates in 2024 will require slightly more fresh water withdrawn from Nemo Lake and more contact water withdrawn from Underground as the works expand. It is expected the same volume will be discharged from site than in 2023.

Table 3.1	2024 Targeted Water Hourly	v Consumption Per Month – for Mill and Camp Usage
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WATER OBJECTIVE	TARGET 2022	TARGET 2023	TARGET 2024
Fresh Water Withdrawn from Nemo Lake (Mining and Camp)	75,000 m ³	80,000 m ³	88,000 m ³
Contact Water Withdrawn from Pit (pit inflow)	910,827 m ³	915,000 m ³	1,320,000 m ³
Contact Water Withdrawn from Underground (inflow)	3,000 m ³	16,000 m ³	19,600 m3
Water discharge from site (WTS / Kangislulik Lake)	2,488,068 m ³	2,500,000 m ³	2,500,000 m ³
Water in recirculation (water recycled / total water use)	0%	0%	0%

3.2 Water Management Strategy

To achieve the above water management objectives and targets, the following key strategies were implemented to develop the Water Management Plan:

- Two levels of catchment disturbance have been defined for the area, namely undisturbed and disturbed. Areas that have been disturbed as part of the mine development are considered disturbed catchments, while the areas left unaffected are considered undisturbed catchments.
- For the purpose of mine water management, runoff from undisturbed areas is considered non-contact water, while runoff from disturbed catchment areas is considered contact water.
 Surface water that is diverted around the mine facilities, or groundwater that does not emerge into a mine facility, is considered non-contact water. Any non-contact water that mixes with contact water becomes contact water.
- Conveyance and storage of contact water will be controlled by channels and containment structures (i.e., sumps and ponds). Sumps will be installed in the open pits and in low points surrounding the open pits. Contact water will be diverted and collected in various sumps and water collection ponds and conveyed to an Attenuation Pond. Two attenuation ponds are planned for surface water and include the Whale Tail Pit Attenuation Pond and the IVR Attenuation Pond.
- The IVR Attenuation Pond will contribute to reducing the operational water head in the Whale Tail Attenuation Pond.

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- The collected water will be treated if the water quality does not meet the discharge criteria established in the Water Licence 2AM-WTP1830.
- The treated water will be reused as much as possible for mining and site operations to minimize the freshwater requirements. The excess treated water will be discharged into Lake A16 (Kangislulik Lake) through a submerged diffuser or through a diffuser in Whale Tail Lake (South Basin) or other alternatives.
- Non-contact water will be intercepted and directed away from disturbed areas by means of natural catchment boundaries and/or man-made diversion structures or pumping systems and will be allowed to flow or to be discharged to the neighbouring waterbodies.

Underground (UG) development groundwater and contact water will be pumped to distinct surface infrastructure for water management. The underground water management infrastructure was defined based on the following underground water management guideline principles:

- It is not currently planned to mine below the permafrost. It is an opportunity that will be further studied.
- Heating is required when mining below top of cryopeg.
- Brine needed until cryopeg elevation is reached.
- Contact and non-contact UG water not segregated segregation is an opportunity.
- Grouting is a mitigation measure during development (not included in hydrogeological model).
- UG storage stope (used to recycle UG water) will delay treatment, needed early.
- Recirculation of brine during mining operations.
- Limit addition of freshwater (used only for CRF [cemented rockfill], promote use of natural groundwater for operation).
- Treatment of UG saline water is not required if mining stays in the permafrost.

The key strategies detailed below are implemented to support underground water management:

- A Groundwater Storage Pond system (GSP) to store captured TDS (salt) affected waters. Up
 to three GSPs are planned to provide operational flexibility and adaptive management
 opportunity.
- Excess water volumes in the underground mine will be managed through the Underground Mine Stope and GSP-1 and GSP-2.
- Excess water volumes may also be managed with GSP-3 (planned for contingency, operational flexibility, and adaptive management opportunity) or managed as temporary storage in IVR Pit, starting in August 2025. The discharge is only allowed for five months per year and will have to be returned underground afterwards.



- There is opportunity for water stored in the GSP to be reused for dust suppression on surface roads or to be re-circulated underground (i.e., for drilling or mixing in the cemented rockfill).
- The Project has been planned with contingency water management storage to manage contact water during upset conditions. For example, GSP-3 could be used for temporary storage when not used for saline water management. This storage has sufficient capacity to manage the potential water quantity exceedances occurring during the freshet and can be used to hold excess contact water temporarily until it can be treated by the water treatment plant during the remaining open water season (July to September). During this time, at maximum capacity, the excess water can be treated and discharged within two weeks.
- At the end of underground mining, any remaining water in GSP ponds and IVR Pit will be pumped underground for flooding of the underground workings.

3.3 Water Balance

As per the Type A Water Licence 2AM-WTP1830, Part E, Item 5, a Project water balance will be updated and presented on an annual basis, integrated into the water management plan update. The developed water balance will assist in evaluating future water management infrastructure, including under closure conditions (as per the Whale Tail Interim Closure and Reclamation Plan).

The water balance was computed on a monthly time step based on mean annual climate conditions (Section 2.1.1). The water management flow sheets are presented in Appendix B, and the water balance results are presented in Appendix C of this plan.

3.4 Waterbody Inventory

The A and C watersheds will be impacted by mining activities, primarily by dewatering of Whale Tail Lake (North Basin) to Lake A16 (Kangislulik Lake), the Northeast Diversion to the C watershed, and the Whale Tail Lake (South Basin) Diversion to Lake A16 (Kangislulik Lake). Waterbodies directly impacted by mining activities are presented in Table 3.2 and shown in Appendix A. Discharge of treated effluent began in the second dewatering phase of the project in June 2019 and will continue throughout mine operations and into closure if required, based on water quality monitoring and results.

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Table 3.2 Inventory of Waterbodies Directly Impacted by Mining Activities

Watershed	Primary Disturbance	Waterbody	Note
	Dewatering	Lake A17	Dewatering of Lake A17 (Whale Tail Lake)
	Dewatering		to Whale Tail Lake (South Basin)
		Lake A46	Part of the IVR Pit footprint
		Lake A47	Part of the IVR Pit footprint
	IVR Pit	Lake A49	Part of the IVR Pit footprint
		Pond AP-67	Part of the IVR Pit footprint
		Pond AP-68	Part of the IVR Pit footprint
	IVR WRSF Placement	Lake A50	Covered by IVR WRSF
		Lake A51	Covered by IVR WRSF
		Lake A52	Covered by IVR WRSF
		Pond A-P21	Covered by IVR WRSF
		Lake A18	Flooded
		Lake A19	Flooded
		Lake A20	Flooded
		Lake A21	Flooded
		Lake A22	Flooded
Α	Whale Tail Lake (South	Lake A45	Part of diversion channel
	Basin) Diversion	Lake A55	Flooded
	·	Lake A62	Flooded
		Lake A63	Flooded
		Lake A65	Flooded
		Pond A-P1	Flooded
		Pond A-P53	Flooded
	Various Water Management Activities	Lake A17 (Whale Tail Lake)	Whale Tail Lake (North Basin) used as the Whale Tail Attenuation Pond Whale Tail Lake (South Basin) receives dewatering flows during dewatering activities, and discharge of treated effluent
	C	Lake A16 (Kangislulik Lake)	Receives discharge of treated effluent
		Lake A53	Used as the IVR Attenuation Pond
		Lake A50	Covered by a Groundwater Storage Pond
С	Water Intake	Lake A16 (Kangislulik	Sourced during operations for emulsion
		Lake)	plant, if needed
		Lake C38 (Nemo Lake)	Sourced during operations, including emulsion plant
		Lake A17 (Whale Tail Lake)	Whale Tail Lake (South Basin) sourced during closure

3.5 Water Management System

The water management system includes the following components (identified in Appendix A):

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- Water collection ponds (Whale Tail Attenuation, IVR Attenuation, Whale Tail WRSF, plus the GSP Ponds and IVR Pit for temporary storage of groundwater)
- Staging sump for Pit contact water management
- Sump for WRSF contact water management.
- Discharge diffusers located in Kangislulik Lake and Whale Tail South
- Two water diversion channels (South Whale Tail Channel and IVR diversion channel)
- Four water retention dikes (Whale Tail, Mammoth, Whale Tail WRSF, and the IVR dikes)
- Culverts
- Freshwater intake causeway and pump system
- WTP and associated intake causeway
- Sewage Treatment Plant (STP)
- Pipelines and associated pump systems
- Potable WTP
- Pumping system from Whale Tail South to Kangislulik Lake
- Whale Tail Dike seepage collection system.

Additional water management system components can be put in place if required to adapt effectively to the site conditions, to manage non-contact water adequately, and to meet the water management objectives and target.

During the mine construction, operational, and closure phases, a network of collection and interceptor channels and sumps will be constructed and maintained to facilitate mine site water management. A list of the water management control structures and facilities is presented in Table 3.3 together with the construction schedule. These structures were designed according to design criteria presented in the Appendix K: Project Design Considerations of the Water Licence 2AM-WTP1826 amendment, submitted to the NWB in May 2019. Final design details of these structures will be provided to the regulators for approval at least 60 days prior to construction.

Water management strategy updates were also communicated in August and September 2019 to the Nunavut Water Board regarding changes to the management of non-contact water for specific areas of the project. Those changes are reflected in Table 3.3.

Appendix A shows the location of the main structures at the different development stages of the mine life.



Table 3.3 Water Management Facilities

Mine Year	Water Management Facilities Constructed or Installed		
	Turbidity Curtains installation for dike construction		
Year -1 (2018) Construction	Start Whale Tail Dike		
	 Construction of the low-permeability access road built of overburden and collection sump for Stage 1 WRSF 		
	Freshwater intake causeway in Nemo Lake		
	Water Treatment Plant and Construction Water Treatment Plant		
	Pipelines and associated pump systems for water management and dewatering		
	Sewage Treatment Plant		
	Potable Water Treatment Plant		
	Discharge diffuser in Kangislulik Lake		
	Culverts 184, 186, and Mammoth Channel		
	Completion of Whale Tail Dike		
	Construction of Mammoth Dike		
	Construction of the Whale Tail WRSF Dike		
	Construction of the Northeast Dike		
	Construction of the South Whale Tail Diversion Channel		
	Construction of the dewatering system (ramp, pipe, diffuser) for the Whale Tail North Basin to the Whale Tail South Basin, the dewatering system from North Basin to Kangislulik Lake (and Water Treatment Plant).		
Year 1 to 2	Construction of the Whale Tail contact water intake causeway and construction of the WT attenuation pond infrastructure (diffuser, pipeline)		
(2019-2020)	Installation of pumping system from the North-East Pond to C Watershed		
Operations – Phase 1	Installation of pumping system from Whale Tail South to Kangislulik Lake		
Thase I	Construction of the Whale Tail Dike seepage collection system		
	Installation of pumping system from A53 Lake to Whale Tail South		
	 Installation of pumping system from Lake A49 to North-East Sector to maintain the water level. 		
	 Installation of pumping system for contact water from the open pit to the Whale Tail Attenuation Pond (to Quarry 1 until freshet 2020) 		
	 Installation of pumping system for contact water from the Whale Tail WRSF Pond to the Whale Tail Attenuation Pond (to Quarry 1 until freshet 2020) 		
	Underground WRSF saline ditch system		
Year 2 to 7 (2020-2025) Operations – Expansion Project	 Construction of the dewatering system (ramps, pipes) for Lake A46, A47, A49, A50, A51, A52, A53, AP-21. Used to dewater the footprint of IVR Pit, IVR WRSF, and IVR Attenuation Pond 		
	Dismantling of North-East Dike for IVR Pit mining activity		
	 Construction of the contact water intake causeway and construction of the IVR attenuation pond infrastructure (diffuser, pipeline) 		
	Installation of the IVR Attenuation Pond Pump Station		
	 Installation of pumping system for contact water from the open pit to the IVR Attenuation Pond 		



Mine Year	Water Management Facilities Constructed or Installed		
	IVR WRSF Contact Water Collection System; Ore stockpile 3 Contact Water Collection System		
	IVR Diversion		
	IVR D-1 Dike		
	Underground Water Management System		
	Groundwater Storage Ponds		

WRSF = Waste Rock Storage Facility.

3.5.1 Infrastructure Summary

The following sections briefly describe the various dikes and channels constructed for the Project. Information regarding the operation, surveillance, and maintenance of these structures is contained in the OMS Manual – Whale Tail Water Management Infrastructures (Agnico Eagle, 2024c). Additional information regarding construction of these infrastructures including design drawings and figures, can be found in the as-built reports submitted for each structure.

Agnico Eagle will continue to identify and assess the water infrastructure performance issues to ensure efficient water management. A lesson learned exercise on the 2019 freshet was performed in 2020 and was used to improve water management practices and plans for 2020 and beyond. In 2023 a lesson learned exercise on the winter water management was performed to improve winter water management practices for future winters.

Whale Tail Dike

Whale Tail Dike (WTD) isolates the Whale Tail Pit and Whale Tail Attenuation Pond from Whale Tail Lake South. The WTD construction raised the Whale Tail Lake (South Basin), Lake A18, Lake A19, Lake A20, Lake A21, Lake A22, Lake A55, Lake A62, Lake A63, Lake A65, Pond A-P1, and Pond A-P53, to an elevation of 156.0 metres above sea level (masl). The South Whale Tail Channel is a diversion structure associated with this dike and diverts runoff downstream to the Lake A16 (Kangislulik Lake).

WTD is approximately 835 m in length and was constructed within Whale Tail Lake on a shallow plateau of the lake floor. It consists of a wide rockfill shell, with downstream filters and a cement-bentonite cutoff wall built with secant piles that extend into the bedrock. The cutoff wall extends up to 12 m below lake level and is socketed an average 1.37 m in the bedrock. The dike has a 5 m grout blanket on the upstream side and a 10 m grout curtain on the downstream side from 0+180 to 0+516. The top of the secant piles are at El. 157 which is 1 m higher than the design IDF water level. A rockfill thermal cover 2.0 m thick was placed between the secant pile top elevation and the final crest elevation of the dike at 159 masl.

Whale Tail Dike was constructed in the fall of 2018 and its initial grout curtain was installed in the first quarter of 2019. During dewatering in 2019 it was observed that a high amount of seepage was coming from the structure. The amount was judged unsustainable to be managed by pumping (approximately 300 m³/h). A detailed investigation including additional instrumentation and



geophysics was conducted for a better understanding of the seepage phenomenon at the Whale Tail Dike. In 2020, a pumping system was installed to collect and manage the seepage water prior to reaching the Whale Tail Attenuation Pond with the objective of returning water to the environment if water quality allows.

As a result, a remedial grouting campaign was performed between November 2019 and March 2020. The campaign was successful and met the objective of decreasing the seepage so it could be manageable by pumping. Following the dike grouting campaign, the seepage flow, measured using a v-notch weir, has significantly decreased to approximately 80 m³/h and it was concluded that the seepage reduction objective of the grouting campaign was successfully reached. Agnico Eagle continues to closely monitor the situation.

South Whale Tail Diversion Channel

The South Whale Tail Diversion Channel (SWTDC) is a blasted channel in the south-western part of the Whale Tail Lake watershed. It allows non-contact water to be discharged by gravity from Whale Tail Lake to Kangislulik Lake.

The construction of SWTDC occurred from January to April 2020 and it was commissioned during the 2020 freshet.

The previous inlet of the SWTDC was at El. 155.3 m. This value has been corrected to 154.25 m following observations of settlement post construction. It explains the increase in volume recorded for 2023. The channel has a trapezoidal shape with lateral slopes of 3H:1V, a base width of 5.0 m, and a bed-slope of 0.3%. The SWTDC was constructed using a protective riprap layer consisting of rockfill on the bottom and the sides of the channel to avoid erosion and limit TSS in the water. The riprap has a thickness of 0.5 m and consists of blasted rock with a diameter of 100 - 300 mm. Two transition materials consisting of fine and coarse filter with a 0.3 m thickness each were installed between the overburden and the riprap for particle retention between the foundation soil and the riprap. A layer of geotextile was placed between the coarse filter and the riprap to avoid migration of fine particles from the filters that could increase turbidity. The part of the access road crossing Lake A45 was modified to add a filtering element to prevent the A45 lakebed sediment to flow in the channel and create turbidity while ensuring that water from Lake A45 could reach the channel.

Mammoth Dike

Mammoth Dike is a water retaining infrastructure built to isolate the Whale Tail Pit from Kangislulik Lake. Kangislulik Lake receives water from Whale Tail Lake through the SWTDC and treated water from site discharge through the Kangislulik Lake diffuser. Water flows out of Kangislulik Lake through its natural outlet.

The construction of Mammoth Dike occurred from February 2019 to March 2019 to maintain the frozen condition of the foundation. Mammoth Dike has a length of about 330 m and a height of 2 m. This structure is a zoned rockfill dike with a filter system. The low permeability element of the dike consists of a bituminous geomembrane (BGM) installed on the upstream face anchored in a key trench



with fine filter amended with bentonite (FFAB). The key trench is approximately 3 m deep and is founded on bedrock. Blasting was required during the construction of this infrastructure.

Whale Tail WRSF Dike

WRSF Dike is a water retention infrastructure designed to prevent contact water from the Whale Tail waste rock storage facility (WRSF) accumulating in the WRSF pond from reporting to Kangislulik Lake. The water collected in the WRSF pond located upstream of the dike is pumped to the Attenuation Pond and treated prior to being discharged. An area of approximately 109 ha drains towards the WRSF pond. The WRSF Dike is located south of the Whale Tail WRSF.

The WRSF Dike is about 360 m long and 5 m high. This structure is a zoned rockfill dike with a filter system. Foundation excavation in the key trench area was done in the fall of 2018 to avoid blasting and aggrade frost penetration. The construction of WRSF Dike mainly occurred from January to February 2019 to maintain the frozen condition of the foundation. The low permeability element of the dike consists of a bituminous geomembrane (BGM) installed on the upstream face anchored in a key trench with fine filter amended with bentonite (FFAB). The key trench is approximately 3 m deep and founded on frozen glacial till or bedrock.

On August 2019, the key trench of the structure thawed inducing tension cracks on the crest of the structure and seepage from WRSF Pond reported through the structure to Kangislulik Lake. Immediate actions taken were to build an access road to the downstream portion of the dike, in order to excavate a small sump and pump the seepage water back into the WRSF Pond. Furthermore, WRSF Pond was emptied and maintained dry. Downstream pumping stopped on September 30th, when the reporting flow and surrounding area had frozen. In October 2019, the KIA conducted a sample analysis of the lakebed sediments in Kangislulik Lake. The report concluded the seepage did not have a measurable impact on metal quantities of Kangislulik Lake sediments (McDougall et al. 2019).

A series of measures were implemented by Agnico to minimize the risk of future similar events occurring in this location:

- Operational water levels were reviewed to keep water as low as possible in the WRSF pond as recommended by the Meadowbank Dike Review Board (MDRB)
- Aggradation of permafrost into the dikes foundation by construction of a thermal berm in 2020 on the upstream portion of the dike
- Access road to the downstream area was constructed to facilitate inspection.
- A downstream water collection system was designed and constructed.

Additional details on this event can be found in the letter submitted on December 20, 2019, to Environment and Climate Change Canada. Agnico Eagle continues to closely monitor the situation. No seepage was observed since the 2019 event which confirmed the adequacy of the mitigation measures implemented to ensure adequate performance of the structure.



Northeast Dike (dismantled)

The North East (NE) Dike was a temporary structure designed to prevent runoff from the Northeast watershed reporting to the Whale Tail Pit and to divert them to Nemo Lake. The upstream slope of the NE Dike was lined with bituminous geomembrane encapsulated at the toe in a layer of FFAB liner in turn constructed in a key trench to an ice-poor till foundation.

Following the fish out and dewatering of surrounding lakes (A46 & A47) in 2020, this structure was dismantled as part of the IVR pit development.

IVR Dike D-1

IVR Dike D-1 is a contact water retaining infrastructure built to contain the IVR Attenuation Pond. It is located East of the Whale Tail Pit. The structure includes an emergency spillway to release the water to the Whale Tail Attenuation Pond.

The construction of IVR Dike D-1 was part of the expansion project. It started in Q1 2021 and was completed in Q2 2021. The structure was constructed as a zoned rockfill dike with a filter system. The low permeability element of the dike consists of a bituminous geomembrane (BGM) installed on the upstream face anchored in a key trench located below the centerline of the structure with fine filter amended with bentonite (FFAB). The key trench is excavated in frozen glacial till or bedrock. To improve the thermal condition of the key trench a rockfill and esker thermal berm was placed on the upstream side.

IVR Diversion Channel

The IVR Diversion Channel (IVR DC) is an excavated channel in the north-east part of the Whale Tail Project site. It allows non-contact water to flow from the North-East watershed to Nemo Lake. Its objective is to reduce the amount of contact water reporting to IVR Pit.

The construction of IVR DC was part of the expansion project. It occurred from September to October 2020 and the channel was commissioned during freshet 2021. The channel has a trapezoidal shape with lateral slopes of 2H:1V to 3H:1V, a base width of 3.0 m, and a bed-slope of 0.3%, in combination with a pervious rockfill perimeter berm that is delimiting the west boundary of the channel and also acts as an access road. The IVR DC was constructed with a layer of fine filter material placed on top of the excavated foundation followed by geotextile and overlain by riprap.

3.6 Dewatering

As per the Type A Water Licence 2AM-WTP1830, Agnico Eagle initiated the dewatering of Whale Tail Lake (North Basin) in 2019 following the construction of the Whale Tail and Mammoth dikes and the fish out.



The estimated total volume of Whale Tail Lake (Lake A17) is 8.5 million m³ (Mm³). The dewatering started early March 2019. A total of 2,148,542 m³ of water was discharged directly to Whale Tail Lake South Basin without requiring treatment. The second phase of dewatering started in mid June 2019 discharging to Lake A16 (Kangislulik Lake). For this phase of dewatering, water from the North Basin was treated via the TSS removal unit of the WTP and discharged in Kangislulik Lake through the diffuser.

Once the dewatering phase was completed in Q2 2020, part of the North Basin located outside the Whale Tail Pit footprint became the Whale Tail Attenuation Pond. The Whale Tail Attenuation Pond is since used to receive contact water from different sumps and ponds around site.

Waterbodies and ponds within the footprint of the IVR Pit, IVR WRSF, and IVR Attenuation Pond required dewatering in 2020. To allow the mining of the IVR Pit, lakes A46, A47 and A49 were dewatered in 2020. Following fish out completion, lakes inside the IVR pit mining footprint were dewatered and transferred into the Whale Tail Attenuation Pond representing a total approximate volume of 215,000 m³.

A similar process to the one mentioned above was also used to dewater the waterbodies inside the IVR WRSF footprint (AP-21, A50, A51 and A52). The water was discharged into lake A53 once its fish out was completed for a total approximate volume of 38,000 m³.

Similar to the Whale Tail (North Basin) dewatering process, approximately 2/3 of the dewatered water from Lake A53 was pumped and directly discharged to Whale Tail Lake (South Basin). The remaining 1/3 of the water was processed through the WTP during open water conditions. The complete dewatering of A53 represents a total approximate volume of 213,000 m³. Once Lake A53 dewatering and fishout was completed it became the IVR Attenuation Pond. The IVR Attenuation Pond is intended to receive site contact water from different sumps and ponds around site.

3.7 Water Management Activity During Construction and Operations

An inventory of waterbodies impacted by mining activities is provided in Table 3.2 (Section 3.4) and the water management facilities required for the Plan are provided in Table 3.3 (Section 3.5). These tables should be read in conjunction with Table 3.4, which presents the yearly major water management activities during the construction and operational phases. Water management activities during the closure phase are described in Section 3.10.

Any water requiring treatment will be pumped to the water treatment plant(s) prior to discharge through the diffuser in Kangislulik Lake or through the diffuser in Whale Tail Lake (South Basin) or other alternatives. The latter are outlined in the Whale Tail Pit Expansion Project Adaptive Management Plan. The other alternatives for discharge are Lakes D1 and D5 in the case that Level 3 is reached (high risk situation in the receiver water quality). Discharging in Lakes D1 or D5 would require a complete assessment of potential discharge, with approval from the NWB as per NIRB Project Certificate Conditions.



Water collected in the Whale Tail Attenuation Pond and/or IVR Attenuation Pond will be reused to the extent practical in the open pit and dust control operations, and the excess water will be treated by the WTP prior to discharge to the receiving environment.

Non-contact water will be diverted away from the mine site infrastructure by reversing natural flows or by using diversion channels and culverts.

Freshwater usage on site will be supplied from Lake C38 (Nemo Lake) and Lake A16 (Kangislulik Lake) during operations, and from Whale Tail Lake (South Basin) during closure.

In the amended Water Licence the permitted freshwater sources are Nemo Lake (all purpose), Kangislulik Lake (explosive mixing and associated use), Lake D1 (Re-flooding of Whale Tail Pit, IVR Pit, Underground mine, and Whale Tail (North Basin) and associated use, or as otherwise approved by the Board in writing), and Whale Tail South (Re-flooding of Whale Tail Pit, IVR Pit, Underground mine, and Whale Tail (North Basin) and associated use, or as otherwise approved by the Board in writing).

Table 3.4 Water Management Activities During Construction and Operations

Mine Year	Water Management Activities and Sequence		
Year -1 (2018)	 Temporarily pump contact water from the Stage 1 WRSF sump to Quarry 1 Temporarily pump contact water from the starter pit, construction, ore stockpiles, industrial sector, and main camp sector to Quarry 1 		
	 Treat turbid water from construction using the construction WTP and discharge in Whale Tail North 		
	Pump STP effluent to Whale Tail Lake (North Basin)		
	 Freshwater intake initially located in Whale Tail Lake (South Basin); moved to Lake C38 (Nemo Lake) 		
	 Dewatering of Whale Tail Lake (North Basin) to Whale Tail South Basin and Kangislulik Lake (through the WTP) 		
	Pump contact water from the open pit to Quarry 1		
	Pump contact water from the Whale Tail WRSF Pond to Quarry 1		
	 Treat through the WTP the Whale Tail North Water above discharge limit and discharge in Lake A16 (Kangislulik Lake) 		
	Pump contact water from Quarry 1 to Kangislulik Lake (when water quality meets discharge criteria, treat as needed at WTP) (following authorization)		
Year 1	Pumping of non-contact water from:		
(2019)	 North-East Pond to the C-watershed 		
	 North-East Pond to Whale Tail North 		
	 North-East Pond to AP5 (Licence B) 		
	 A53 Lake to Whale Tail North 		
	 Whale Tail South Basin to Kangislulik Lake 		
	 AP5 to the C-watershed (Licence B) 		
	 Whale Tail North to Whale Tail South in the summer months 		
	 Whale Tail North to Kangislulik Lake 		



Mine Year	Water Management Activities and Sequence	
	 Pump contact water from the IVR WRSF Contact Water Collection System to the IVR Attenuation Pond 	
	Pump STP effluent to the Whale Tail Attenuation Pond or IVR Attenuation Pond	
	 Pump GSP-1 contact water to Whale Tail or IVR Attenuation Ponds. 	
	 Capture runoff from Whale Tail WRSF and NPAG WRSF; pump to WRSF Pond, Whale Tail Attenuation Pond or to the IVR Attenuation Pond 	
	 Pump contact water from the WRSF Pond to Whale Tail Attenuation Pond or IVR Attenuation Pond 	
	 Pump contact water from the Whale Tail Attenuation Pond to the IVR Attenuation Pond Pump contact water from the IVR Attenuation Pond to the Whale Tail Attenuation Pond 	
	 Treat through the WTP the Whale Tail and IVR Attenuation Ponds contact water and discharge in Lake A16 (Kangislulik Lake) or Whale Tail Lake (South Basin) 	
	 Pump excess water from underground sump to GSP 1 when Underground Storage Stope is full 	
	 Pump excess water from underground sump to GSP 1 when Underground Storage Stope is full 	
	Store excess groundwater in IVR Pit temporarily.	
	 Construct GSP-2 and GSP-3 if additional capacity for contact water storage is required at surface. 	
	 Whale Tail Lake (South Basin) flows to Lake A16 (Kangislulik Lake) through the Whale Tail Lake (South Basin) Diversion Channel 	
	 Operation of the Whale Tail Dike seepage collection system by pumping seepage water to Whale Tail South when water quality meets discharge criteria. 	
	Divert non-contact water from the Northeast Sector to Nemo Lake using IVR Diversion	
	Pumping of non-contact water from Whale Tail South Basin to Kangislulik Lake	

WRSF = Waste Rock Storage Facility; WTP = Water Treatment Plant.

Table 3.5 presented below summarizes the overall contact water management plan for the major mine infrastructure with the initial water collection location and final water destination. Detailed water management information for major mine infrastructure areas is described in the following subsections. Water management of the non-contact water on site is also presented in Section 3.7.16. Water management flowsheets for the construction and operations phase are provided in Appendix B.

Contact Water Source	Initial Contact Water Collection Location	Final Contact Water Collection Location
Industrial Sector	Whale Tail Attenuation Pond	
Whale Tail and IVR WRSFs	Whale Tail WRSF Ponds	
Sector	IVR WRSF collection system	IVR Attenuation Pond (primary)
Ore Stockpiles	Whale Tail Attenuation Pond	Whale Tail Attenuation Pond (secondary)
Landfill	Whale Tail WRSF Pond	
Open Pits (Whale Tail and IVR)	Open pit sumps	

Table 3.5 Overall Site Surface Contact Water Management Plan

WRSFs = Waste Rock Storage Facilities.

3.7.1 Erosion and Sediment Control Plan

As described in the previous sections, Project site infrastructure, channels, sumps, and associated water management activities are designed with consideration of site wide erosion and sediment control. In addition to design controls, best management practices (BMPs) will furthermore ensure that activities, practices, devices, or a combination thereof will prevent or reduce the release of sediments and will control erosion. The selection of permanent or temporary BMPs will be specific to the site and timing and may require regulatory approval prior to installation or construction.

Temporary BMPs for Whale Tail and IVR Pits may include:

- Silt fences and fabric installation
- Turbidity curtains
- Sediment control basins to detain sediment-laden water
- Diversion of flows away from the construction area

Permanent BMPs at the Whale Tail and IVR Pits may include:

- Infiltration basins and trenches
- Sedimentation basins or ponds
- Construction of swales in ditches

Monitoring of erosion and sedimentation associated with construction and operations are detailed in the Water Quality and Flow Monitoring Plan (Agnico Eagle, 2019b), and dike construction sediment control and monitoring is presented in the Dike Construction and Dewatering Management Plan (Agnico Eagle, 2020).



For specific details on sediment control guidelines and license requirements, on erosion monitoring and mitigation during freshet, and the rise of the water level in the South Basin of Whale Tail Lake, refer to the Whale Tail Project - Erosion Management Plan (Agnico Eagle, 2018a).

3.7.2 Whale Tail Attenuation Pond

The Whale Tail Attenuation Pond is located in a deep part of Whale Tail Lake (North Basin), following the dewatering of the North Basin.

Starting at freshet 2020, the Whale Tail Attenuation Pond is one of the main contact water ponds for the project. Contact water from the Whale Tail WRSF Pond and runoff water in the open pits collected by sumps can be pumped to the Whale Tail Attenuation Pond.

Excess water is transferred to the IVR Attenuation Pond, to IVR Pit (to IVR 1; if required until August 2025, and then in IVR West, east lobe) or is treated by the WTP for TSS and arsenic if required prior to discharge to the receiving environment via the diffuser into Lake A16 (Kangislulik Lake) or Whale Tail South.

Monitoring of the effluent discharge to Kangislulik Lake or Whale Tail South is done as per the Water License requirement and MDMER regulation and is detailed in the Whale Tail Pit Water Quality and Flow Monitoring Plan (Agnico Eagle, 2019b).

3.7.3 IVR Attenuation Pond

The other main contact water pond of the Project (i.e., IVR Attenuation Pond) is located in the former Lake A53, following the A53 dewatering and IVR Dike construction. Contact water from the IVR WRSF collection system, the Whale Tail WRSF Pond, and runoff water in the open pits collected by sump can be pumped to the IVR Attenuation Pond.

Excess water will either be transferred to the Whale Tail Attenuation Pond, to IVR Pit (to IVR 1; if required until August 2025, and then in IVR West, east lobe) or be treated by the WTP for TSS and arsenic if required prior to discharge to the receiving environment via the diffuser into Lake A16 (Kangislulik Lake) or Whale Tail South.

3.7.4 Water Management in Whale Tail Waste Rock Storage Facility

The Whale Tail WRSF will be used to permanently store all waste rock and overburden from mining activities.

Seepage and runoff from the Whale Tail WRSF during the construction and operational phases is managed via the Whale Tail WRSF Pond, isolated by the Whale Tail WRSF Dike, where the contact water is pumped to the Whale Tail Attenuation Pond or to the IVR Attenuation Pond.

Runoff from the ultimate footprint of the Whale Tail WRSF will report to the Whale Tail WRSF Contact Water Collection System and the IVR Pit.



All overburden have been co-disposed with waste rock within the WRSF. More details about management of the Whale Tail WRSF are presented in the Whale Tail Mine – Waste Rock Management Plan (Agnico Eagle, 2024a).

In April 2019, O'Kane Consultants developed a landform water balance model for the Whale Tail and IVR WRSFs (OKC, 2019). Information on the landform water balance model can be found in the report referenced in the waste management plan (OKC, 2019). The objective of the landform water balance was to estimate the runoff, interflow, and basal seepage rates for different slopes and aspects of the Whale Tail and IVR WRSFs.

3.7.5 Water Management in IVR Waste Rock Storage Facility

The IVR WRSF is in operation since the IVR Pit was initiated. Runoff from the IVR WRSF is sent to the IVR Attenuation Pond. The total catchment of the IVR WRSF increases proportionally with the increase in waste rock footprint.

3.7.7 Water Management for Ore Stockpile Areas

The ore stockpiles are located within the catchment of the Whale Tail Attenuation Pond or the IVR Attenuation Pond as shown in Appendix A. Based on the topographic information, contact water will naturally flow to the Whale Tail or IVR Attenuation Ponds for further treatment. If deemed required channels will be constructed and water management systems (i.e., pump, piping, etc.) will be installed to direct runoff to the pond.

The Ore Stockpiles are designed based on the following considerations. A cover of overburden and/or waste rock was placed over original ground to reduce any thaw-induced differential settlements. Waste rock was then placed to follow the natural topography, thereby reducing the likelihood of water ponding on the surface of the pad requiring additional maintenance. Any surface run off from the ore stockpile or the pad will be directed to the Attenuation Pond containment area.

3.7.8 Water Management for Quarry 1

Until freshet 2020, Quarry 1 was used as the main contact water pond for the Whale Tail site. Prior to commissioning of the Whale Tail Attenuation Pond, contact water collected from the Stage 1 WRSF sump, from the starter pit, construction, and industrial sectors was pumped to Quarry 1. The contact water from Quarry 1 was pumped to Kangislulik Lake without treatment when the water quality met discharge criteria. The discharge was done via the permanent diffuser inKangislulik Lake. If needed, water was treated via the Water Treatment Plant to meet discharge criteria.

As of 2021 Quarry 1 is part of Whale Tail Pit and is no longer available to be used as a storage area for water management.



3.7.9 Water Management for the Whale Tail Open Pit Sector

The Whale Tail open pit is planned to extend to approximately 270 m below the ground surface. The open pit will be mined mostly within permafrost except for the north-central portion of the pit which will be within the closed talik at the northern end of Lake A17 (Whale Tail Lake). The pit does not extend through the bottom of the closed talik; however, the open pit acts as a sink for groundwater flow during operations, with water induced to flow up through the open talik beneath the central portion of Lake A17 (Whale Tail Lake) and into the open pit. Accordingly, groundwater inflows into the open pit are expected; this water will be mixed with the open pit contact water and pumped to the IVR Attenuation Pond and/or the Whale Tail Attenuation Pond for further treatment.

The overall inflow to the pit is not expected to decrease significantly as the pit deepens because the flow of water is primarily through the permeable weathered bedrock and because the lower portion of the pit is in permafrost. It is important to note that most of the volume is expected to be due to seepage from Whale Tail South and the Whale Tail Attenuation Pond.

Groundwater inflow predictions during operations conservatively assume that no freeze back will occur in the pit walls during mining. This assumption was adopted for Whale Tail Pit to be conservative and because during the first few years of mining, the pit will be both widened and deepened, resulting in the continual exposure of unfrozen bedrock. During the later years of mining, however, the pit development will be entirely within the permafrost and significant freeze back in the pit walls is considered possible and has been observed at Meadowbank. Although not simulated, if freeze back does occur as is the case at Meadowbank, actual groundwater inflow to the pit could be significantly lower.

TDS concentration in the groundwater inflow to the pit was predicted to decrease during mining. The relatively low TDS concentration and decrease in TDS over time reflects the minimal upwelling of higher salinity waters at depth due to the presence of the permafrost at the base of the pit and the high contribution of lake water and Whale Tail Attenuation Pond water.

3.7.10 Water Management for the IVR Open Pit Sector

The IVR Pit is located north of Whale Tail Lake, within the Northeast Sector in the permafrost environment, thus no groundwater inflows are predicted. Water management infrastructures are designed to only manage runoff water reporting to the pit during freshet. The IVR Pit runoff is conveyed to the active attenuation pond (i.e., IVR Attenuation Pond). Since 2023, water from Whale Tail Attenuation Pond and from IVR Attenuation Pond is transferred to IVR Pit for temporary storage, the aim being to minimize water load into both Attenuation Pond during winter and facilitate the operation of the Water treatment Plant.



3.7.11 Water Management for the IVR and WT Pit Pushbacks

During operations, the water is managed within the pits as detailed in Sections 3.7.9 and 3.7.10. No additional water management infrastructure is required for this activity. The IVR Pushback may be used as a staging sump prior to being backfilled.

3.7.12 Water Management for Haul Roads

A network of access and haul roads will connect the ore body to the Whale Tail and IVR WRSF Sector and the Industrial Sector. Most of the roadways servicing the mining area will drain directed towards the proposed contact water management infrastructures. Detailed information on roads is described in the Whale Tail Pit Haul Road Management Plan.

The approach to water management for these roads will involve the implementation of local best management practices during the construction, operational, and closure phases. The roads are constructed of non-potential for acid generating and non-leaching waste rock from mining operations. Other best management practices will strive to minimize the amount of runoff originating from the roadways and to prevent the migration of surfacing material from the roadways and crossings. Any areas identified as point sources of runoff originating from the roadways or crossings can be managed locally with silt fences, straw booms, turbidity curtains, interceptor channels, rock check dams, and/or small sedimentation ponds.

3.7.13 Water Management for Landfill

The landfill is developed within the Whale Tail Waste Rock Storage Facility (WRSF), which is located north of the Kangislulik Lake therefore, minimizing the disturbed area. This landfill consists of multiple sub landfills that are built and buried according to the evolution of the RSF. As the RSF evolves, the elevation and location of the sub landfills change. The landfill is located within the catchment of the Whale Tail WRSF Pond, as shown in Appendix A. Based on the topographical information, runoff and any seepage from the landfill will naturally flow to the Whale Tail WRSF Pond and then be pumped to the Whale Tail Attenuation Pond for further treatment before discharge.

Further information on the management of this facility is described in the Whale Tail Pit Landfill and Waste Management Plan.

3.7.14 Sludge and Brine Management from Water Treatment Plants

This section summarizes water treatment requirements and is extracted from the Mean Annual Water Balance and the Mine Site and Downstream Receiving Water Quality Predictions, from Golder Associates, both dated May 2019. Any water requiring treatment will be pumped to the water treatment plant(s) prior to discharge through the diffuser in Kangislulik Lake or through a diffuser in Whale Tail Lake (South Basin) or other alternative discharges.

Sludge disposal will be done in the Whale Tail WRSF.



OPERATION WATER TREATMENT PLANT (WTP)

The arsenic and TSS water treatment plant (WTP) was commissioned at the beginning of May 2019, to treat the final dewatering volumes from Whale Tail Lake (North Basin). This plant is used to treat surface water for TSS and arsenic before discharging to an approved diffuser.

Sludge water from the Operation Water Treatment Plant (OWTP) is dewatered with a centrifuge to produce a cake having a density with 20% of solid content. This cake will be stored in the Whale Tail WRSF. The maximum predicted annual volume of cake from the OWTP is approximately 5,760 cubic metres (m³).

TDS WATER TREATMENT PLANT (S-WTP)

The S-WTP is not needed according to the latest water balance as the current underground mining plan is designed to minimize the inflows requiring TDS treatment by staying in the permafrost. The S-WTP would include a TDS Treatment plant if required.

The concept for the TDS Treatment plant would be to treat low salinity water that is stored in the GSP-2 until closure. The TDS Treatment plant would be active only from June through September. The permeate would be combined with the WTP effluent for discharge from site. The brine produced from the TDS Treatment plant would be stored in GSP-1. The S-WTP could also include two Desalination units, which would treat water stored in GSP-1. The salt solid produced from treatment would either be used at site and/or shipped off site, and the permeate would be combined with WTP effluent for discharge from site.

Agnico Eagle is currently developing an Underground Project limited into the permafrost only. This change results in no more treatment and discharge of saline water to Whale Tail Lake. The water management strategy for underground water would only be based on storing water in GSP-1 and GSP-2. High and low salinity water would not be segregated anymore.

3.7.15 Underground Water Management

Underground development groundwater and contact water will be managed in dedicated surface infrastructures for contact water. For underground water management, the following key strategies were implemented to develop the underground water Management Plan:

- A Groundwater Storage Pond system (GSP) is designed to capture TDS (salt) affected waters.
 Up to three GSPs are planned to provide operational flexibility and adaptive management opportunity.
- Excess water volumes in the underground mine will be managed through the Underground Mine Stope and GSP-1 and IVR 1 Pit (; if required after August 2025).

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- Excess water volumes may also be managed with GSP-3 (planned for contingency, operational flexibility, and adaptive management opportunity) or managed as temporary storage in IVR Pit.
- Water stored in GSP-1 and GSP-2 could be used as a source for dust suppression on surface roads, as input into the cemented rockfill, or used for drilling activity underground.
- At the end of underground mining, any remaining water in the GSP ponds and IVR Pit will be umped underground for flooding of the underground workings.

3.7.16 Non-Contact Water Management

The non-contact water management systems are described below. These systems are required to meet the objective of avoiding mixing contact and non-contact water.

Whale Tail Dike Seepage Discharge to Whale Tail Attenuation Pond

The non-contact water seeping from Whale Tail Dike (WTD) is collected into the seepage collection system before reaching the Whale Tail Attenuation Pond. Water quality samples are taken from the seepage to monitor pH and turbidity. The seepage collection system consists of a longitudinal collection trench that runs along the downstream toe of the dike and redirects the water towards the WT Attenuation Pond. In addition to the trench, pumping wells can be used to minimize the volume of water reporting to Whale Tail Attenuation Pond. Note that to date, it hasn't been considered necessary to use this system.

Seepage water, collected from this system, can be discharged into the Whale Tail South Basin via a diffuser without treatment if the water quality meets the discharge criteria of the Water License 2AM-WTP1830. If discharge criteria are not met, water will overflow from the pump stations to the Whale Tail Attenuation Pond, and then will be pumped through the WTP for discharge.

When pumping system is in operation, routine monitoring of the seepage water quality from each pump station will be as per the Water Licence 2AM-WTP1830 and the Metal and Diamond Mining Effluent Regulation (MDMER). This monitoring will allow Agnico Eagle to put mitigation measures (for example, treating the water via the WTP) in place if needed. Turbidity and pH will also be monitored.

Since 2020, following the Whale Tail Dike grouting campaign, the seepage pH results indicated an increase above the acceptable limit indicated in the Water License 2AM-WTP1830. The seepage collected from the system was therefore pumped to the Whale Tail Attenuation Pond. Agnico Eagle will continue to closely monitor the situation.

IVR Diversion Channel

The IVR Diversion channel is intended to collect non-contact runoff water from the east side of the Nemo watershed and divert it by gravity to Nemo Lake. This infrastructure is 260 m long and allows



minimizing the volume of non-contact runoff water reporting to the IVR Pit area. The IVR Diversion Channel construction has been completed in 2020.

South Whale Tail Channel (SWTC)

Construction of the South Whale Tail Channel (SWTC) was completed in 2020 prior to the freshet. The SWTC connects Whale Tail South basin to Kangislulik Lake. The 900 m long channel is approximately 5m wide at the base with lateral slopes of 3H:1V. Once excavated, the channel was covered with multiple layers of coarse and fine materials, rip rap, and a layer of geotextiles to ensure minimal TSS in the flow reporting to Kangislulik Lake and also preventing erosion. At the outlet of the channel, a turbidity barrier was installed and will remain in place as a supplementary protection to avoid TSS flowing into Kangislulik Lake. The channel allows Agnico Eagle to naturally control the Whale Tail South water level without any mechanical transfer intervention. Details of the channel construction can be found in the as-built report (SNC, 2020).

3.7.16.1 Adaptive Management for Non-Contact Water

In order to adequately manage non-contact water on site, some passive flows have been in the past substituted with a pumping alternative that complies with the original intent of the approved water balance and Water License 2AM-WTP1830 (same origin and destination of water). Those systems were proposed as adaptive management methods, in response to the encountered site conditions during open water season and the high volume of precipitation received, resulting in additional volume of water to manage.

North-East Pond to C-watershed

The non-contact water from the North-East (NE) Pond watershed was initially planned to overflow by gravity toward Nemo Lake once the North-East Dike was operational. During a routine inspection in July 2019, it was observed that the topography toward Nemo Lake would not allow water to overflow naturally before overtopping the dike liner. Following this observation, water was pumped from NE Pond toward the project site as per approval from NWB, adding pressure on dewatering activity. The water from the NE Pond was then pumped to the tundra within the Nemo watershed (Watershed C). This system for water level management was operational in 2019 and 2020 prior to the dewatering of the IVR footprint and was used to manage the water level in the NE Pond when required, until NE Dike was dismantled in late 2020.

North-East Sector Pond Management

During the summer of 2019 and 2020, significant water inflows from Lake A49 towards the Whale Tail Pit area were noticed. Maintaining the water elevation in Lake A49 throughout freshet was required to avoid the transformation of non-contact water (Lake A49 overflow) to contact water (pit water). The objective of this water transfer was to minimize contact water creation. Water was sent into the North-East Pond. Lakes A47 and A49 were dewatered in 2020 as part of the IVR Pit development.



A53 Lake to Whale Tail South

The non-contact water from the A53 watershed was planned to be redirected to Whale Tail South through the East Channel.

Prior to the dewatering phase, the water level in Lake A53 was maintained to the natural level by pumping the exceeded volume to Whale Tail South as per previous approval from NWB. Regular water level monitoring was conducted at this time. The monitoring aligns with the Water License 2AM-WTP1830 requirements, Schedule I Table 2 for ST-WT-7 and as per Part F Item 7 for TSS limits.

Once the dewatering phase was completed, as explained in Section 3.6 of this report, A53 became the IVR Attenuation Pond.

Whale Tail South Discharge to Kangislulik Lake

The non-contact water from Whale Tail South Basin was pumped to Kangislulik Lake in 2019 as per approval from NWB. This pumping activity was required to manage and then maintain the water level in Whale Tail South Basin, in order to allow for the construction of the Whale Tail South Channel (SWTC) and preserve the integrity of Whale Tail Dike. This system temporarily substituted passive flow via the SWTC with a pumping alternative that complies with the original intent of the approved water balance and Water License 2AM-WTP1830 (same origin and destination of water). This pumping activity also provided flexibility and added robustness to the water management strategy. Discharge was completed via a diffuser to avoid erosion into Kangislulik Lake. Since 2020, no mechanical transfer from Whale Tail South to Kangislulik Lake occurred but Agnico might re-use this system in the future to appropriately manage water on site.

3.8 Freshwater Management

The permitted freshwater sources as per the Water License 2AM-WTP1830 are Nemo Lake (all purpose), Kangislulik Lake (explosive mixing and associated use), Lake D1 (Re-flooding of Whale Tail Pit, IVR Pit, Underground mine, and Whale Tail (North Basin) and associated use, or as otherwise approved by the Board in writing), and Whale Tail South (Re-flooding of Whale Tail Pit, IVR Pit, Underground mine, and Whale Tail (North Basin) and associated use, or as otherwise approved by the Board in writing).

Freshwater usage includes potable use, fire suppression, dust suppression, drilling water (if contact water is not available), water for the emulsion plant (trucked from the Nemo Lake pumping station), and water for the truck shop. The freshwater source is Lake C38 (Nemo Lake), and Lake A17 (Whale Tail Lake) during closure. For explosives mixing and associated use, the water could also be pumped from Lake A16 (Kangislulik Lake), as per Part E, condition 1 of the Water License 2AM-WTP1830. Agnico Eagle will endeavour to minimize the amount of freshwater required for the Project, where possible. Table 3.6 summarizes the authorized water use for domestic and industrial purposes during construction and operation.



Table 3.6 Water Use Authorized for Domestic and Industrial Purposes During Construction and Operation

Source	Volume (m³/year)	Purpose
Nemo Lake	209,544	Domestic camp use, drilling dust suppression, Construction, and Operations and associated use or as otherwise approved by Board in writing
Kangislulik Lake	2,500	Explosive mixing and associated use
Whale Tail Lake (North Basin), Lakes A-P38, A-46, A47, A49, A50, A51, A52, A53, A-P21, A-P10, A-P67 and A-P68	153,735	Dewatering
Source Proximal to drilling sites	109,135	Drillings
Source proximal to the Whale Tail Haul Road	109,135	Dust Suppression
Annual Subtotal	584,049	Above-described sources
Annual Contingency (20 %)	116,810	Above-described sources
Annual Total 700,859		700,859

Freshwater is primarily sourced through a freshwater intake and pump system. The intake consists of vertical filtration wells fitted with vertical turbine pumps that supply water on demand. The intake is connected to the pump house with piping buried under a rockfill causeway. The intake pipe exits at the bottom of the causeway and is fitted with a stainless-steel screen, as per Part E, condition 4 of the Water License 2AM-WTP1830. The rockfill causeway acts as a secondary screen to prevent fish from becoming entrained.

The stainless-steel screens design for the water intake is consistent with the Fisheries and Oceans Canada (DFO) "Freshwater Intake End-Of-Pipe Fish Screen Guideline" (DFO 1995). As per the DFO policy intake screens will be cleaned every 2 years. The freshwater intake will be moved to Whale Tail Lake (South Basin) at closure.

Freshwater is pumped to an insulated main storage tank located at the Whale Tail Camp. The freshwater pipeline is made of a high-density polyethylene pipe and insulated, and heat traced. The Whale Tail Camp has a Freshwater Treatment Plant (potable). In the Potable WTP, the freshwater first goes through sand filters and then is pumped through ultraviolet units, and finally treated with chlorine. The treated water is stored within a potable water tank. Potable water is monitored according to the Nunavut health regulations for total and residual chlorine and microbiological

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parameters. Treated potable water is piped to other facilities requiring potable water. Detailed plant operation specifications were provided in FEIS Volume 1, Section 1. 2.4.1.

Freshwater and potable water use is required during operations and additional freshwater will be required from Whale Tail Lake at closure. The current Type A Water Licence Part E Item 1 and 2 provides for a maximum quantity of water use not to be exceeded at 700,859 m³ annually during construction and operation as well as 14,855,606 m³ annually during closure. The freshwater usage from Nemo Lake needs to respect the license limit of 209,544 m³ per year.

It is important to note that total annual withdrawals of water from Nemo Lake (209,554 m³/year) will remain well below the lake's annual inflow volume of approximately 476,000 m³ (based on the mean annual water balance of the lake under baseline conditions), and DFO's guideline of 10% of the under ice volume for the duration of operations (i.e., under-ice volume of 6,170,000 m³ derived from FEIS Addendum Appendix 6-M submitted with the Whale Tail Pit - Expansion Project). Residual effects to fish and fish habitat are therefore expected to be negligible.

Following the end of operations, site contact water including contact water in the underground mine watershed (GSP ponds) will be pumped into the underground mine; the remaining voids will be filled with Whale Tail Lake (South Basin) water. The dewatered Whale Tail Pit and IVR Pit area will be filled with a combination of natural runoff and contact water from the entire site (i.e., the Whale Tail and IVR WRSF Contact Water Collection Systems and the Whale Tail and IVR Attenuation ponds), and water pumped from Whale Tail Lake (South Basin). Contact water in the underground mine watershed (GSP ponds) will not be used for this purpose because of their anticipated higher salinity. This water will be used only to flood underground workings. It is anticipated that approximately 75,000,000 m³ over 16 years from Whale Tail Lake is required to fill the mined-out Whale Tail Pit (i.e., approximately 57,000,000 m³), IVR Pit (i.e., approximately 11,000,000 m³), underground mine (i.e., approximately 1,000,000 m³) and Whale Tail Lake (North Basin) (i.e., approximately 6,000,000 m³), including approximately 2,900,000 m³/year from Whale Tail Lake (South Basin).

As per part E, condition 2 of the Water License 2AM-WTP1830, the use of water from Whale Tail Lake shall not exceed a total of 10,655,000 m³/year commencing when notification of closure is received by the NWB through to the expiry of the Licence. The limit for Nemo Lake is 14,672 m³/year and the limit for Lake D1 is 1,710,000 m³/year, both commencing when notification of closure is received by the NWB through to the expiry of the Licence.

3.9 Sewage Water Management

Sewage is collected from the camp and change-room facilities and pumped to a sewage treatment plant (STP). The objective of the STP is to treat sewage to an acceptable level for discharge to the Whale Tail or IVR Attenuation Ponds via a sewage water discharge pipeline. The STP is housed in a prefabricated (modular) structure located in the Whale Tail Camp. The sewage treatment system is



designed based on the occupation maximum of the camp for 400 persons (240L per day and per person). The design average daily flow is 96 m³/day (4 cubic metres per hour [m³/hour]).

Previously, the sewage treatment plant at the Amaruq camp could accommodate 400 workers. With the addition of four wings to the Operations Camp for the project expansion, the total camp capacity was increased to 546 workers. An expansion of the sewage treatment systems was thus required. These systems are built with typical 40-foot containers.

No major change in operation or water quality happened as a result of this expansion. The upgraded sewage treatment system is designed based on a flow rate of 240 L per day per room for 546 people, for an average daily flow rate of 131 m³/day (5.42 cubic metres per hour [m³/hour]).

The sewage treatment plant receives two streams of sewage. The first source is domestic sewage, which is fed directly to the fine screening process to remove any fibers or debris that might damage the membranes. The second source is kitchen sewage which is pre-treated in the oil and grease tanks to remove oil and grease prior to being fed into the fine screen.

The STP for the camp facilities is designed to meet appropriate guidelines for wastewater discharge (for example, NWT Water Board 1992). Wastewater System Effluent Regulations (WSER) criteria are not currently applicable to systems located in Nunavut and is unlikely to apply to the Project effluent quality.

Table 3.7 provides the anticipated performance of the system compared to the WSER criteria. Further information on the management of this facility is described in the Whale Tail Sewage Treatment Plant Operation and Maintenance Manual (Agnico Eagle, 2019a). As stipulated in Part B, Item 17, Agnico Eagle will review the Plans as required by changes in operation and/or technology and modify the Plans accordingly in the form of an addendum to be included in the Annual Report.



Table 3.7	Effluent Quality	and Wastewater	Characteristics
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Parameter	Units	Regulatory Limit	Design Value
Wastewater			
Biochemical Oxygen Demand	mg/L	-	952
Total Suspended Solids	mg/L	-	300
Total Kjeldahl Nitrogen	mg/L	-	130
Ammonia Nitrogen	mg/L	-	130
Fat, Oil, and Grease	mg/L	-	30
• pH	-	-	6 to 9.5
Water Temperature	°C	-	10 to 25
Alkalinity	mg/L as CaCO₃	-	471.1
Prohibited Chemicals/Compounds	Not present		
Grinder Pumps	Not present upstream of MBR		
Effluent			
• pH	-	6-9.5	6.5 to 8.5
Carbonaceous Biochemical Oxygen Demand	mg/L	<25	<5
Total Suspended Solids	mg/L	<25	<1
Un-ionized Ammonia	mg/L	<1.25	<0.08
• N0 ₃ -N	mg/L	<5	4
• TP	mg/L	<0.5	0.5
Fat, Oil, and Grease	mg/L	<5	<1
Fecal Coliform	CFU/100mL	<200	Non-Detect
Total Residual Chlorine	mg/L	<0.02	0

^{1.} Noted values are assumed blended between kitchen and dormitory wastewater after the grease trap.

3.10 Water Management During Closure

Mine closure is integral to the mine design and will be modified during operations. Planning for permanent closure is an active and iterative process. The intent of the process is to develop a final closure plan including specific water management components using adaptive management. This begins during the mine design phase and continues through to closure implementation. Adaptive management enables the plan to evolve as new information becomes available through analysis, testing, monitoring, and progressive reclamation. The mine closure and reclamation activities are provided in the Whale Tail Pit Interim Closure and Reclamation Plan and will be detailed in the Final Closure and Reclamation Plan.

Water management during closure and reclamation will involve actively filling the underground facilities, Whale Tail Pit, and IVR Pit, and passively allowing the Whale Tail Attenuation Pond and the Whale Tail Pit to flood. The Groundwater Storage Ponds and IVR Attenuation Pond will be emptied at the start of closure and backfilled with NPAG/NML waste rock. The Whale Tail and IVR WRSFs will be

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^{2.} A complete list of prohibited chemicals is included in the membrane maintenance manual.

progressively covered with NPAG/NML waste rock throughout operations and are expected to be completely covered at the beginning of closure.

The pushback in the IVR pit will be filled with NPAG-NML waste rock and be naturally refilled by water inflows as described above. Figure 3.4 shows the conceptual approach to water flow in the upper portion of the pit which would eventually flow into Whale Tail Pit.

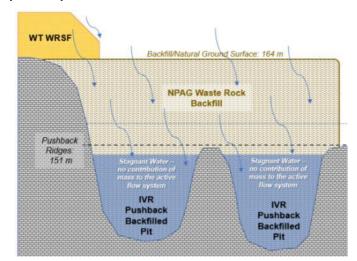


Figure 3.4 Conceptual Representation of Water Flow in IVR Pushback During Closure

Water management during closure and reclamation will involve maintaining contact water management systems including water treatment plant on site until monitoring results demonstrate that water quality is acceptable for discharge of all contact water to the environment without further treatment. Once pit lake water quality meets the discharge criteria, the water management systems will be decommissioned to allow the water to naturally flow to the receiving environment. In 2018, a Whale Tail WRSF seepage analysis and hydrodynamic modelling of Kangislulik Lake were conducted to address NIRB project certificate Term and Condition no. 6a. The objectives were to assess Kangislulik Lake near-field water quality at the WRSF seepage outlet post-closure and to evaluate seasonal water circulation patterns in Kangislulik Lake resulting from effluent discharge. This analysis also aimed to predict and evaluate the water quality within Kangislulik Lake during operations and post-closure (Golder, 2019c). Results show that no modification to the water management strategy is needed concerning closure activities and sequence.

Runoff from the Whale Tail WRSF and discharge from Whale Tail Lake (North Basin) (IVR runoff flows to Whale Tail Lake (North Basin)) will enter and mix in Kangislulik Lake. Concentrations outside the mixing zone of the Whale Tail WRSF contact water plume are predicted to meet receiving water quality criteria. Results of the studies showed that baseline drainage patterns of the East Sector need to be re-established to direct runoff towards the Whale Tail Attenuation Pond, including runoff over the backfilled IVR Attenuation Pond. Runoff from the IVR WRSF and the backfilled Groundwater Storage Ponds need to be passively directed to the Whale Tail Pit. The IVR Pit walls are composed

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primarily of south komatiite and basalt with some north greywacke rock. Based on these predictions, a control mechanism may be required for IVR Pit Walls including re-sloping and cover placement, or adapted contact water management.

The dewatered Whale Tail Pit and IVR Pit area will be filled with a combination of natural runoff and contact water from the entire site (i.e., the Whale Tail and IVR WRSFs Contact Water Collection Systems and the Whale Tail and IVR Attenuation Ponds), and water pumped from Whale Tail Lake (South Basin). The runoff and seepage from the Whale Tail WRSF and IVR WRSF will continue to be collected in the designated collection ponds and pumped to Whale Tail Lake (North Basin) during active closure (re-filling). Water quality will be monitored during flooding and until results demonstrate that water quality conditions from the WRSFs are acceptable for direct discharge. Based on the cover thermal model results, the Whale Tail WRSF and IVR WRSF will be covered with a cover of 4.7 m thick to be constructed with NPAG/NML waste rock. The objective of the cover is the control of acid generating reactions and of migration of contaminants by freezing. Consistent with the Approved Project, the segregation of the PAG/NPAG and ML/NML waste rock will occur during the operation of the mine.

The key water management activities during mine closure are summarized in Table 3.8. Appendix B shows the water management flowsheets during mine closure phases.



Table 3.8 Key Water Management Activities During Mine Closure

Mine Year	Key Water Management Activities and Sequence
Year 8 (2026)	 Dewater the Groundwater Storage Ponds, IVR Pit, and the IVR Attenuation Pond to the underground mine Backfill the Groundwater Storage Ponds and the IVR Attenuation Pond with NPAG/NML waste rock Draw-down of the raised Whale Tail Lake (South Basin) to 153.5 masl, pumping to the underground until refilled and then to the IVR Pit. Lake A55, Lake A65, Lake A62, Lake A63, Lake A18, Pond A-P23, Lake A20, Lake A21, Lake A22, and Lake A45 return to baseline elevations. Water from Whale Tail Lake (South Basin) ceases flow through Whale Tail Lake Diversion Channel and to Lake A16 (Kangislulik Lake) Decommission of IVR Diversion to re-establish baseline drainage patterns of the Northeast Sector catchment towards the IVR Pit Pump WRSF Pond water to the IVR Pit Pump Whale Tail Lake (South Basin) to the IVR Pit during summer months to maintain its elevation at 153.5 masl Re-establish baseline drainage patterns of East Sector runoff towards the Whale Tail Attenuation Pond, including runoff over the backfilled IVR Attenuation Pond The Whale Tail Attenuation Pond overflows (once full) into the Whale Tail Pit Passively direct runoff from the IVR WRSF and the backfilled Groundwater Storage Ponds to the Whale Tail Pit Start of site water quality monitoring of flooding open pit reservoirs
Year 9 to Year 25 (2027 to 2043)	 Refilling of the IVR Pit to 149.3 masl (i.e., the spill elevation of the IVR Pit onto the bed of Whale Tail Lake [North Basin]) expected in 2027 The IVR Pit reaches the spill elevation to the Whale Tail Pit and begins overflowing to the Whale Tail Pit A sill will be constructed at closure on the upstream of Kangislulik Lake to increase the water level by 1 m to 153.5 m.
Year 26 (2044)	 The Whale Tail Pit reaches the spill elevation that connects it with the Whale Tail Attenuation Pond and both water bodies fill simultaneously. The Whale Tail Pit and the Whale Tail Attenuation Pond reach the spill elevation that connects the Whale Tail Pit with the IVR Pit, and all three reservoirs, including the pushbacks, fill simultaneously to 153.5 masl, forming Whale Tail Lake (North Basin) Once Whale Tail Lake (North Basin) is flooded to 153.5 masl, pumping of the Whale Tail Lake (South Basin) to Whale Tail Lake (North Basin) during summer months will be ongoing to maintain the elevation of Whale Tail Lake (South Basin) to 153.5 masl until water quality allows to decommission the dikes and reconnect the North and South Basins of Whale Tail Lake Once Whale Tail Lake (North Basin) is flooded to 153.5 masl, remove STP Once Whale Tail Lake (North Basin) is flooded to 153.5 masl, decommission the Whale Tail WRSF Dike and re-establish natural drainage patterns of the Whale Tail WRSF Sector to Lake A16 (Kangislulik Lake) Once Whale Tail Lake (North Basin) is flooded to 153.5 masl, create spillway in Mammoth Dike to re-establish baseline flow patterns to Lake A16 (Kangislulik Lake)



Mine Year	Key Water Management Activities and Sequence		
	 Decommission the Whale Tail Dike, water quality permitting. Remove site infrastructure 		
Post-Closure (2045+) (triggered when water quality in all three water bodies meets the appropriate water quality criteria)	Monitoring		

WRSF = Waste Rock Storage Facility

3.10.1 Flooding Sequence

The flooding sequence will be adapted to meet water quality closure objectives to allow for the reconnection of the lakes. The water balance and water quality forecast will be updated to optimize the flooding sequence.

Following completion of operations, site contact water including contact water in the underground mine watershed (GSP ponds) and temporarily stored in IVR Pit will be pumped into the underground mine; the remaining voids will be filled with Whale Tail Lake (South Basin) water. The dewatered Whale Tail Pit and IVR Pit area will be filled with a combination of natural runoff and contact water from the entire site (i.e., the Whale Tail and IVR WRSF Contact Water Collection Systems and the Whale Tail and IVR Attenuation ponds), and water pumped from Whale Tail Lake (South Basin).

Beginning in 2026, the water accumulated in Whale Tail Lake (South Basin) over the years of operations will be pumped into the underground mine until it is filled and into the IVR Pit thereafter. Active closure will be consistent with the Approved Project and current Type A Water Licence 2AM-WTP1830. Whale Tail Pit active closure will be followed by passive closure measures until the pits and underground have flooded, Whale Tail Lake and IVR Pit water levels are restored, and runoff from the WRSFs are shown to be suitable for uncontrolled release.

The Whale Tail Pit operations will be closed and reclaimed in a manner consistent with the Approved Project and as required under Project Certificate No. 008 and Type A Water Licence 2AM-WTP1830, following the Whale Tail Interim Closure and Reclamation Plan.

It is anticipated that approximately 75,000,000 m³ over 16years from Whale Tail Lake is required to fill the mined-out Whale Tail Pit (i.e., approximately 57,000,000 m³), IVR Pit (i.e., approximately 11,000,000 m³), underground mine (i.e., approximately 1,000,000 m³) and Whale Tail Lake (North Basin) (i.e., approximately 6,000,000 m³), including approximately 2,900,000 m³/year from Whale Tail Lake (South Basin). Pumping will be required during non winter months to fill the Whale Tail Lake (North Basin) by 2042. By pumping an additional 161,000 m³/year (approximately 55 m³/h during the non-winter months), the Whale Tail Lake (North Basin) can be filled by September 2042.

Following the first pumping summer, the water elevation in Whale Tail Lake (South Basin) will be back to the baseline value (153.5 masl) and water will then be diverted to the Whale Tail North Basin for filling. The elevation of the Mammoth sill will be 153.5 masl. The Diversion Channel inlet is at the elevation 154.25 masl and the Whale Tail Dike is maintained in place. Refilling of the IVR Pit to 149.3 masl (i.e., the spill elevation of the IVR Pit onto Whale Tail Lake (North Basin) is expected in 2027. Refilling of Whale Tail Pit to 146.3 masl (i.e., the spill elevation of the Whale Tail Pit onto the bed of Whale Tail Lake (North Basin) is expected in 2041. Flooding of the IVR West Pushback is expected in 2042 (151.0 masl).

3.10.2 Contact Water Collection System

The contact water collection system will remain in place to collect surface runoff water and seepage from the mine site until the open pits are flooded. During this period, the Industrial Sector and the Whale Tail Camp will be reclaimed, and the non-essential site infrastructure will be removed. Thereafter, water in these sectors will no longer be collected and will contribute to the reestablishment of the natural elevation of Whale Tail Lake (North Basin). The Mammoth Dike and Whale Tail Dike will remain in place until pit lake water quality meets receiving environment water quality objectives. If this occurs after full flooding as is predicted at this time, the pit lake water elevation will be maintained at 153.5 masl by pumping from Whale Tail (South Basin) to the North Basin, and through controlled discharge from Whale Tail (North Basin) to Kangislulik Lake over the Kangislulik Lake sill.

In the Whale Tail WRSF Sector, the contact water collection system will remain in place. Dikes will not be reconnected until the water quality in the flooded area meets Closure water quality objectives.

In closure, water from the Whale Tail WRSF contact water collection system is used to actively flood IVR Pit, and the IVR WRSF water is directed to Whale Tail Pit. In post-closure, water from the Whale Tail WRSF contact water collection system is allowed to flow passively to Kangislulik Lake as baseline drainage patterns are re-established. Lower volumes and chemical loading of water originating from either of the WRSFs would improve water quality throughout closure in the Whale Tail and IVR Pits, and in Kangislulik Lake in post-closure.

Dike decommissioning will involve the removal (breach) of a portion of the dikes to original ground levels whenever possible. Consideration will be given to breach staging, with the above water portions of the dike/berm in the breach area removed during winter periods, when there will be little surface water flow, thereby minimizing the potential release of sediments to the neighbouring waterbodies. The remainder of the breach would be completed during the open water season following freshet to allow for the deployment of turbidity curtains to control potential releases of sediment.

For water collection and management systems closure the infrastructure will be re-contoured and/or surface treated according to site-specific conditions to minimize wind-blown dust and erosion from



surface runoff, if required. This closure activity is intended to enhance site area development for recolonization by native plants and wildlife habitat.

3.10.3 Post-Closure Modeling Results Summary

Following refilling of Whale Tail Lake (North Basin) to 153.5 masl (i.e., to overtop the Kangislulik Lake sill), and once the pit lake water quality is acceptable, the Whale Tail Dike, Mammoth Dike, and the Whale Tail WRSF Dike will be decommissioned. Whale Tail Lake (North Basin) and Whale Tail Lake (South Basin) form Whale Tail Lake with a water surface area of 2.34 km², or a 41% increase from baseline, which flows to Lake A16 (Kangislulik Lake) over the Mammoth Dike via spillway. Runoff from the Whale Tail WRSF contact water collection system area flows to Lake A16 (Kangislulik Lake).

The reflooding strategy will be adapted during closure based on future water quality predictions validated with site monitoring data. The objective will be for pit lake water to meet quality objectives concurrently with completed reflooding such that lake reconnection can happen as soon as possible after.

Steady-state untreated WRSF contact water released is predicted to meet SSWQO for arsenic at the edge of the mixing zone in the long-term, under the anticipated cover performance scenario (from the 4.7 meters cover of low arsenic leaching waste rock).

The mixing zone in the Lake is predicted to range from 5 meters (under calm conditions in July when 6% of the seasonal seepage flow occurs), to 60 meters (under medium current conditions in June when 65% of the seasonal flow is predicted to occur at a more dilute arsenic concentration) from the entry point of this seepage into the Lake and along the plume centre line.

Other inflows to Kangislulik Lake include natural runoff and overflow from Whale Tail Lake; both are predicted to meet SSWQO as described in FEIS Appendix 6H (Agnico Eagle, 2016).

Kangislulik Lake is sensitive to cover material seepage quality, which is in turn sensitive to cover composition and WRSF pile contact water volume. Observational data at the Meadowbank WRSF suggests that pile contact water volumes are substantially lower than originally predicted (Portage is 20 to 40% lower, Vault WRSF contact water is minimal compared to 178,000m³ predicted at maximum footprint year) using similar modelling assumptions. Recent modelling results of the WRSF landform reflect a significant reduction in the volume of seepage from the WRSF and conservative chemical load estimate to Kangislulik Lake which will be verified with monitoring. As per Type A Water Licence 2AM-WTP1830 Part E, conditions 5 and 6, Agnico Eagle completes a site wide water balance and pit water quality model update for the Whale Tail Pit Site as part of the annual water management plan.



SECTION 4 • WATER QUALITY FORECAST

Water quality forecast reports will be revisited on an annual basis until mine closure, as per the Water License part E item 6. The purposes of the report are to identify, through a mass balance approach, the contaminants of concern during the pit flooding process and WRSF contact water mixing into Kangislulik Lake post-closure and determine if water treatment will be required on site for closure activities when comparing the final contaminant levels to the CCME guidelines and/or site-specific criteria for parameters that are not included in the CCME Guidelines.

In the 2024 water quality forecast report (SNC 2024), AtkinsRéalis (Previously SNC Lavalin inc.) presents that the water quality forecast (WQF) model estimated conservatively the concentrations for Constituents of Concern (COCs) during operation, closure and post-closure when compared to the values presented in the FEIS assessment and last year's annual report. The water quality model is included in Appendix D of this plan. The WQF model also forecast similar concentration trends over time for the COCs when comparing to FEIS assessment values. Forecasted concentrations are generally higher or in the same range as the measured values on site.

All forecasted concentrations are below the Water Licence criteria and CCME guidelines for the COCs during operation in WT and IVR Attenuation Ponds, except for Total Arsenic. The water from these ponds are treated at the Water Treatment Plant (WTP) prior to discharge to Kangislulik or WTS Lakes. In 2023, the treated water met on average the Water Licence discharge criteria for Arsenic. At closure, all of the concentrations of COCs in Kangislulik Lake are forecasted to decrease over time since there is no longer any discharge of treated water to the lake. At post-closure, many COCs are forecasted to increase in Kangislulik Lake since WTN Basin shall be reconnected to Kangislulik Lake once the WT and Mammoth Dikes are breached. However, all COCs are expected to remain below the CCME guidelines, except for Total Phosphorus, Aluminium, Chromium, Copper and Iron.

The following recommendations were proposed to help improve the accuracy of the modelling in the future:

- Continue to monitor water quality in the Attenuation Ponds and Kangislulik and WTS Lakes
- Continue to monitor the water quality collected from the Whale Tail and IVR open pits.
- To better understand the loading of potential COCs from the exposed pit wall during operation and following closure, determine if it is possible to sample the pit wall runoff safely.
 Consider advancing the hydrogeological model and understanding of the pit wall lithology to assess the potential loading of COCs during operation and closure; and
- A robust water quality sampling plan shall need to be developed for closure and post-closure.
 Areas to sample include WT Pit, IVR Pit, WT Attenuation Pond and the WTN Basin once all of
 these ponds are hydraulically connected. Once the WTN Basin is formed, it is recommended
 to sample the surface water in different areas in the basin as well as different depths to gain
 a better understanding on the hydraulic behavior of this basin.



Alternatives water quality modelling methodologies are actively being assessed to further refine the understanding and forecasting of water quality on site. In addition, studies are on going to define the most optimal water management strategies to improve water quality on site for closure.

SECTION 5 • ADAPTIVE MANAGEMENT

Adaptive management will be achieved through performance monitoring and management actions that will be implemented, should they be triggered. Action level responses taken during the year will be documented in Agnico Eagle's annual report submitted to the NWB. The Whale Tail Pit Expansion Project – Adaptive Management Plan (Agnico Eagle, 2021) includes the specific adaptive management strategies related to water management. Three indicators relative to water management are tracked as part of the Adaptive Management Plan: water quality for Whale Tail Project waterbodies, water quantity for surface water management, and water quantity for underground water management.

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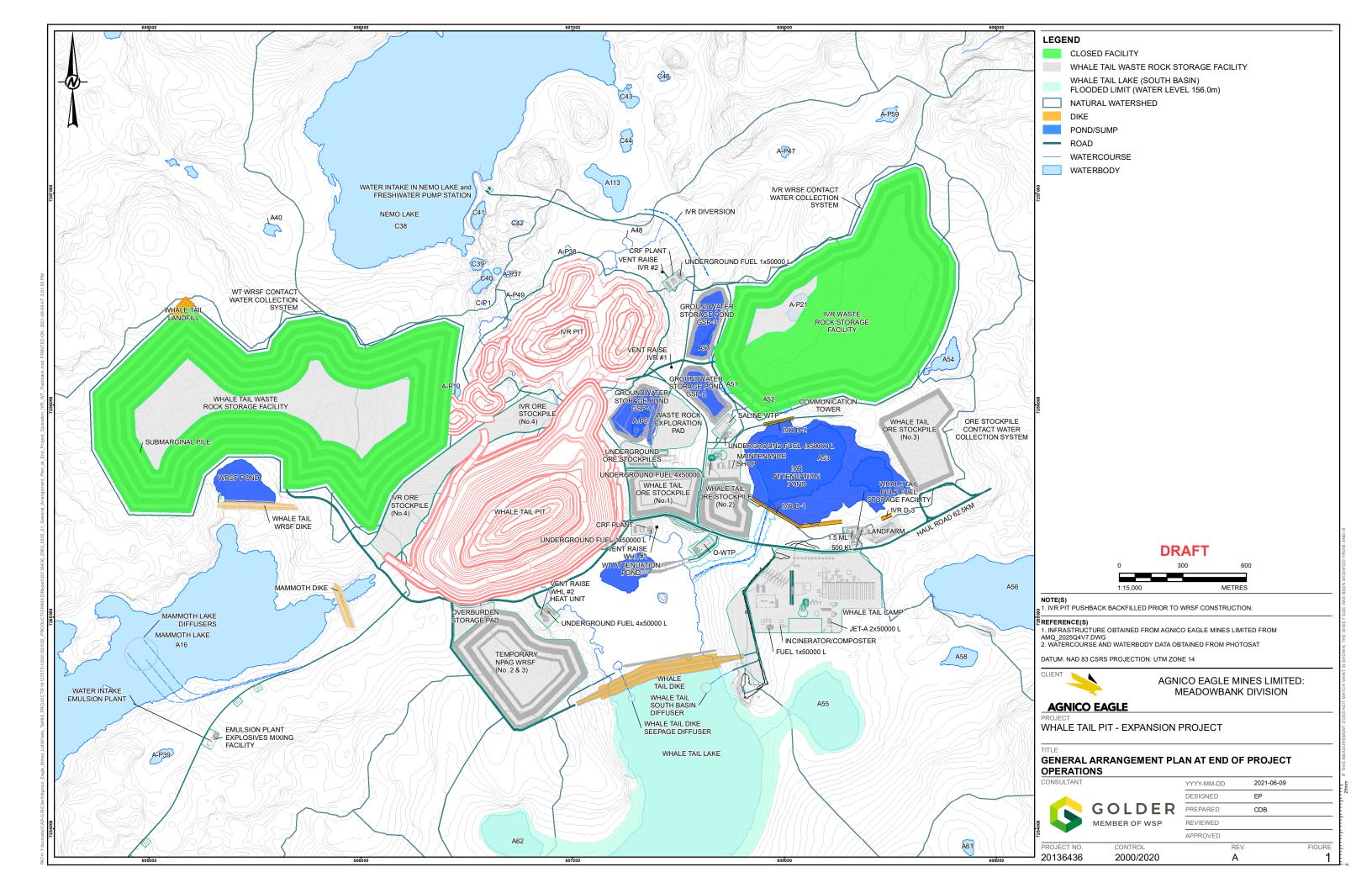
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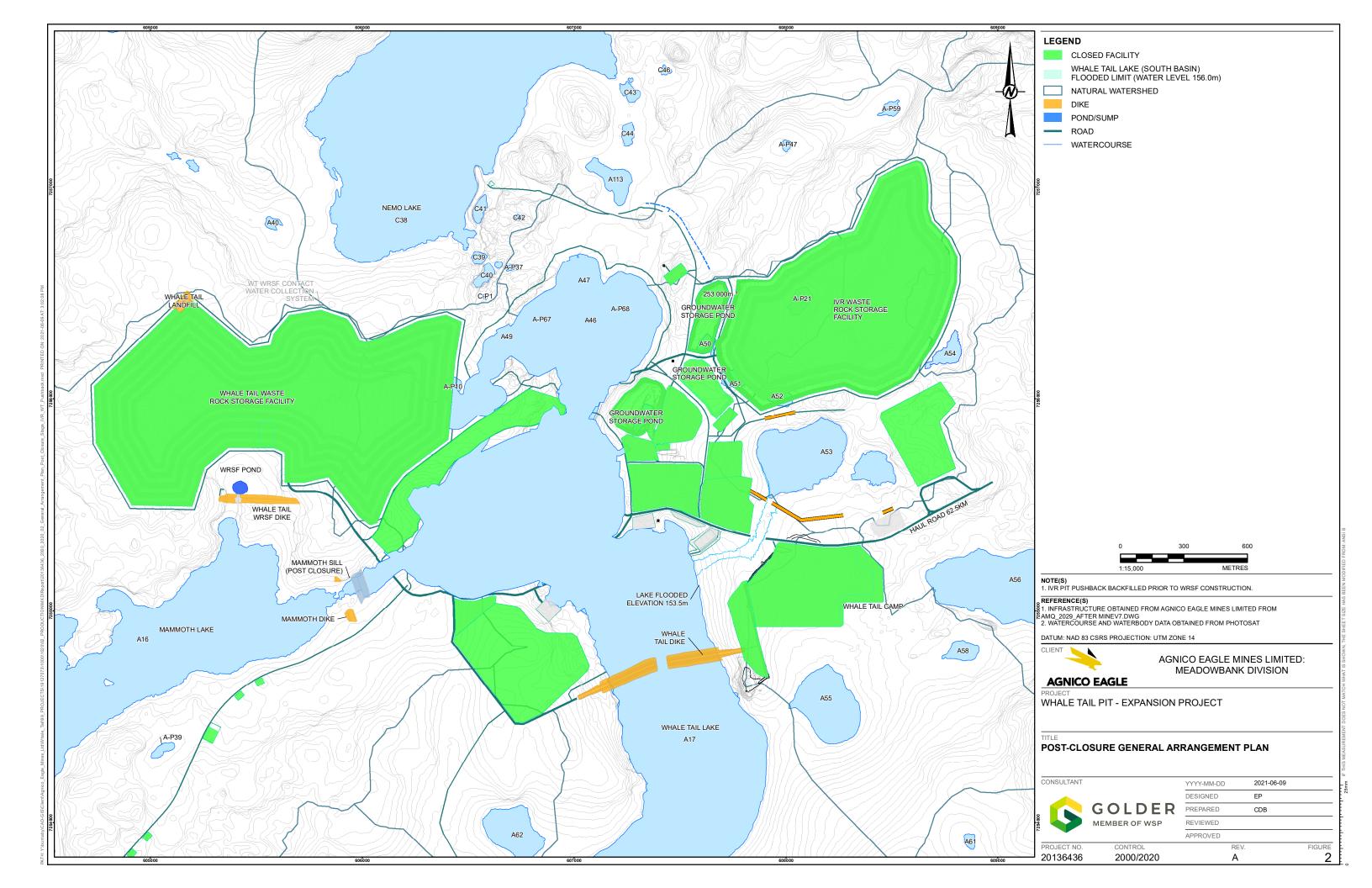


APPENDIX A • SITE LAYOUT PLANS

Figure A.1 Site Layout Plan (Closure Year 2026)

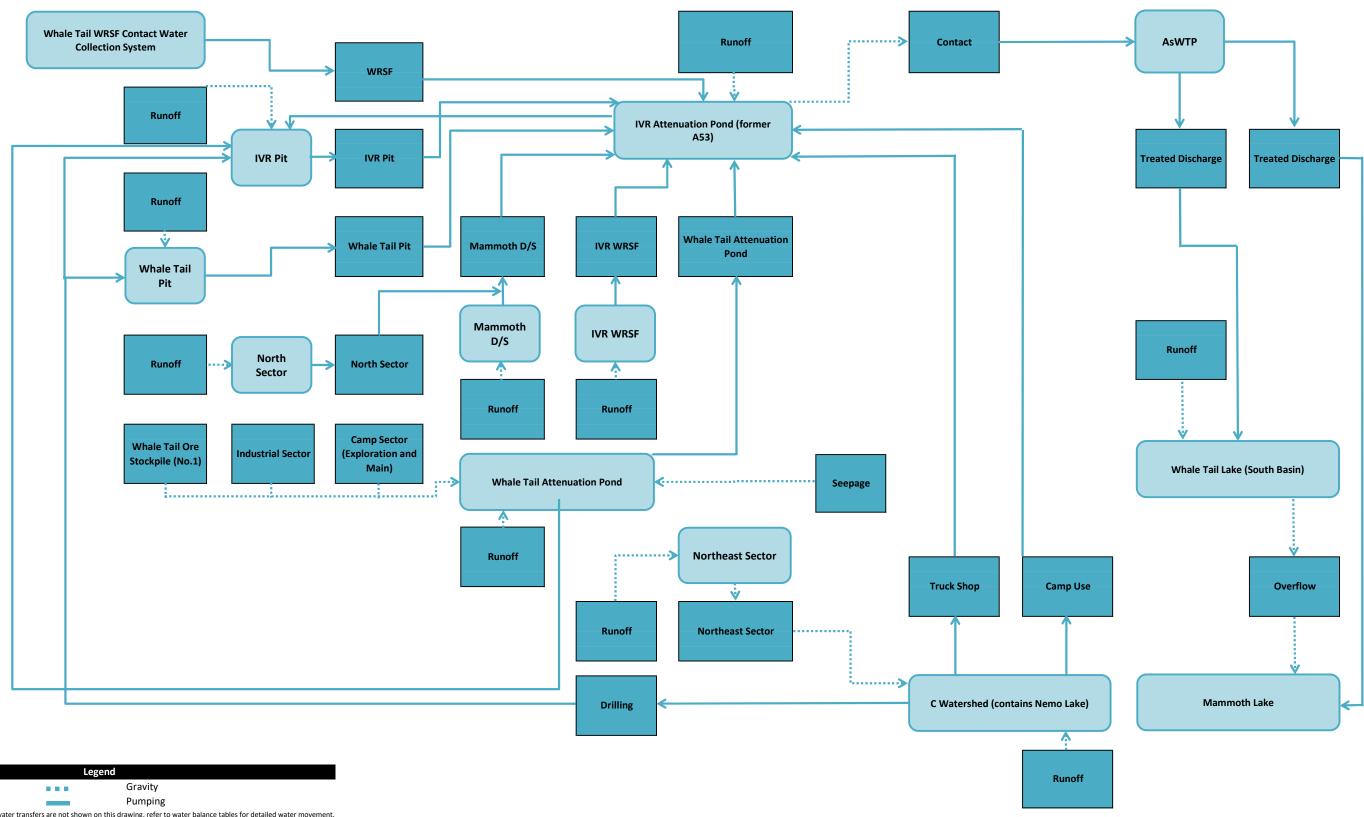
Figure A.2 Site Layout Plan (Post-Closure Year 2045+)





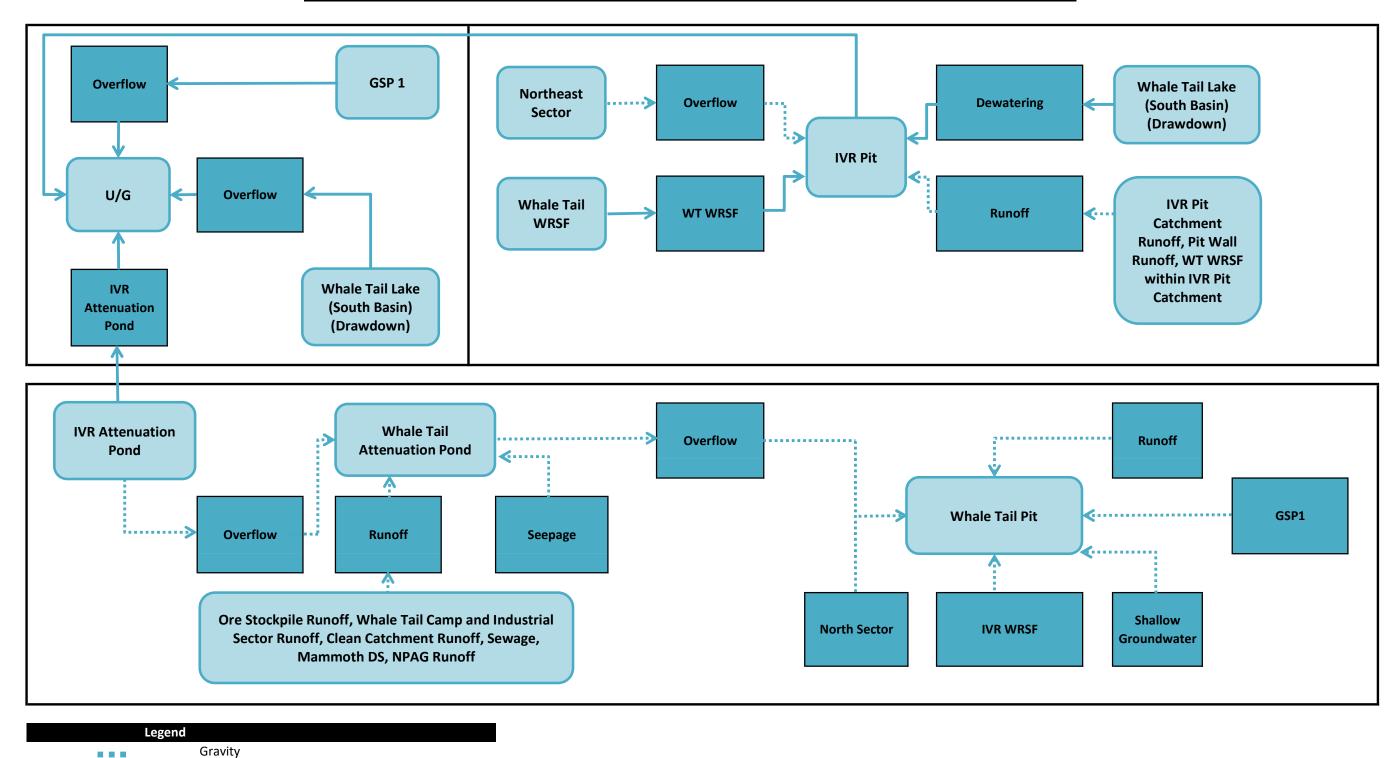
APPENDIX B • 2023 WATER MANAGEMENT SCHEMATIC FLOW SHEETS

General Water Movement - 2022 to 2025



 $[\]hbox{*Small water transfers are not shown on this drawing, refer to water balance tables for detailed water movement.}$

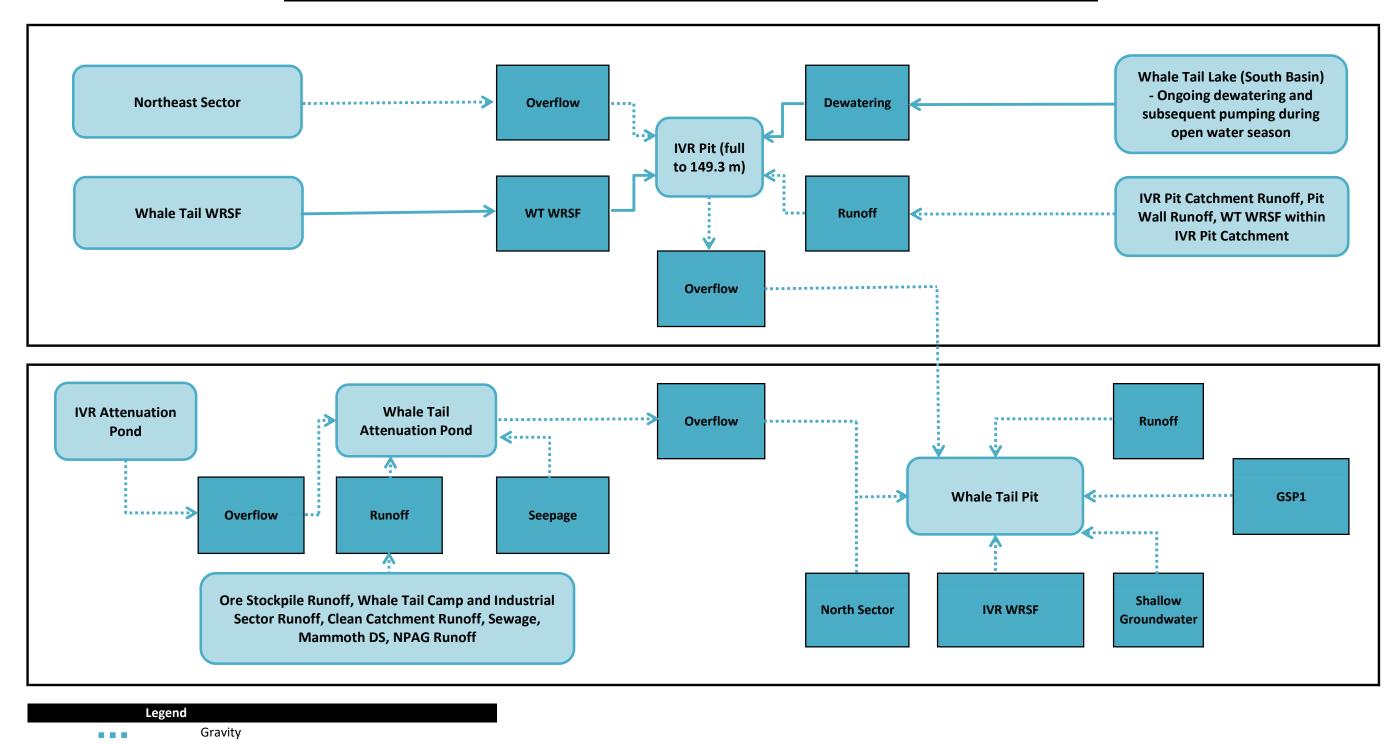
General Water Movement - Closure (Active Flooding): Underground Mine



^{*}Small water transfers are not shown on this drawing, refer to water balance tables for detailed water movement.

Pumping

General Water Movement - Closure (Active Flooding): IVR and Whale Tail Pits



^{*}Small water transfers are not shown on this drawing, refer to water balance tables for detailed water movement.

APPENDIX C • 2023 WHALE TAIL WATER BALANCE

	1	2	4	5	6	7	8	9 10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
					insfer - WT		_	Wate								WT A	Attn. Pond							
					for the		1 for the ination	r Tra						Inflows (m3))								Outflov	ws (m3)
	Month	Nbr days	Total Water Volume (m3)		T			nsfer								ı								
				IVR attn.	WT attn.	WTS	ММ	Precip/Runoff	WT Pit	MM D/S	NW Sump	A47	Q1	Camp	Road 7 Runoff	AP5	WT WRSF Pond	IVR Pit	IVR Attn Pond	WTS Seepage	A49	WTS (via WTP)	MM (via WTP)	IVR Attn. Pond
2019 AVERAG	SES & TOTALS	_		pond	pond												1 0114		1 ond	эссрадс		,		Tona
2020 AVERAG			3 200 794					-64 759	496 137	120 199	0	146 017	206 138	29 016	111 172	24 362	115 632	134 342	0	1 730 231	69 016	1 495 274	1 705 519	0
2021 AVERAG			2 688 743					-724884	828 195	37 221	0	0		31 489	43 194	0	9 383	0	0		0	598 263	0	
2022 AVERAG		21	1 988 073		0	1	0.00	-52474	525 087	0	6 646	0		35 947	0	0		0			0	0	0	1 749 409
Q1	January-23 February-23	31 28	116 077 105 464	1	0	1	0.00	-1636 -3484	31 759 53 139	0	0	0		3 291 3 331	0	0	0	0	0	159 857 49 384	0	0	0	151 472 98 533
	March-23	31	69 400		0	1	0.00	-70061	63 914	0	0	0		3 558	0	0	0	0	0	80 899	0	0	0	119 613
	April-23	30	131 721	_	0	1	0.00	-30639	59 079	0	0	0	-		0	0	0	0	0	46 257	0	0	0	121 926
Q2	May-23 June-23	31 30	333 102 539 350		0	0	0.00 1.00	7464 -10009	70 992 95 468	0	1 844 9 569	0		3 122 2 828	0	0	3 640 0	0	0	193 834 79 653	0	0	0	205 653 249 275
	July-23	31	132 538	_	0	0	1.00	-11965	70 959	0	6 028	0			0	0	2 925	0	0	76 025	0	0	0	134 197
Q3	August-23	31	178 629	1	0	0	1.00	-11183	72 473	0	3 891	0	-		0	0	7 603	0	0	93 064	0	0	0	199 152
	September-23	30	319 714		0	0.16	0.84	4435	77 201	0	1 231	0			0	0	7 209	0 00 00 0	00.025	139 301	0	0	0	168 159
Q4	October-23 November-23	31 30	39 009	1	0	1.00	0	-278772 -75562	72 666 70 979	0	0	0		3 320 4 192	0	0	1 508	90 935 31 672	90 935 31 672	78 301 71 528	0	0	0	93 292 70 747
	December-23	31	0		0	1.00	0	16303	85 453	0	0	0			0	0	0	0	0	45 325	0	0	0	
2023 AVERAG	SES & TOTALS		1 965 004					-465 108	824 082	0	22 563	0	0	41 130	0	0	22 885	122 607	122 607	1 113 428	0	0	0	
01	January-24	31	100 000	_	0	1	0	69	0	0	0	0		2 418	0	0	0	0	0	85 560	0	0		
Q1	February-24 March-24	29 31	100 000 150 000	1	0	1	0	0	0	0	0	0	-		0	0	0	0	0	80 040 85 560	0	0	0	100 000
	April-24	30			0	1	0	7	0	0	0	0		2 418	0	0	0	0	0	82 800	0	0	0	80 000
Q2	May-24	31	150 000		0	1	0	302	0	0	0	0		2 418	0	0	0	0	0	85 560	0	0	0	80 000
	June-24	30			0	0	1	261	0	0	0	0		2 418	0	0	0		0	82 800	0	0		250 000
Q3	July-24 August-24	31 31			0	0	1	49909 5247	0	0	0	0		2 418 2 418	0	0	0	0	0	85 560 85 560	0	0		120 000 100 000
Q5	September-24	30	200 000		0	0	1	8848	0	0	0	0	-	2 418	0	0	0	0	0	82 800	0	0	0	100 000
	October-24	31	216 000	1	0	1	0	26216	0	0	0	0			0	0	0		0	85 560	0	0	0	60 000
Q4	November-24	30	100 000	_	0	1	0	1199	0	0	0	0	-		0	0	0	0	0	82 800	0	0	0	60 000
2024 AVERAG	December-24	31	100 000 2 492 000		0	1	0	501 92 558	0	0	0	0		2 418 29 016	0	0	0		0	85 560 1 010 160	0	0		60 000 1 210 000
2024 AVERAG	January-25	31			0	1	0	69	0	0	0	0			0	0					0	0		
Q1	February-25	28	100 000		0	1	0	0	0	0	0	0		2 418	0	0	0	0	0	77 280	0	0	0	100 000
	March-25	31		_	0	1	0	0	0	0	0	0		2 418	0	0	0		0	85 560	0	0	0	100 000
Q2	April-25 May-25	30 31			0	1	0	302	0	0	0	0		2 418 2 418	0	0	0	0	0	82 800 85 560	0	0	0	80 000 80 000
	June-25	30	576 000	_	0	0	1	261	0	0	0	0		2 418	0	0	0	0	0	82 800	0	0	0	250 000
	July-25	31	350 000		0	0	1	49909	0	0	0	0	-	2 418	0	0	0	0	0	85 560	0	0	0	120 000
Q3	August-25	31	300 000	_	0	0	1	5247	0	0	0	0			0	0	0	0	0	85 560	0	0	0	100 000
	September-25 October-25	30 31	200 000 216 000		0	0	0	8848 26216	0	0	0	0	-	_	0	0	0	0	0	82 800 85 560	0	0	0	100 000 60 000
Q4	November-25	30	100 000	_	0	1	0	1199	0	0	0	0		2 418	0	0	0	0	0	82 800	0	0	0	60 000
	December-25	31			0	1	0	501	0	0	0	0			0	0				85 560	0	0		60 000
2025 AVERAG	SES & TOTALS		2 492 000		_			92 558	0	0	0	0		29 016	0	0			0		0	0		
Q1	January-26 February-26	31 28	100 000 100 000		0	1	0	69	0	0	0	0		2 418 2 418	0	0	0	0	0	85 560 77 280	0	0	0	100 000
	March-26	31		_	0	1	0	0	0	0	0	0		2 418	0	0	0	0	0	85 560	0	0	0	100 000
	April-26	30	150 000		0	1	0	7	0	0	0	0	-	2 418	0	0	0	0	0	82 800	0	0	0	80 000
Q2	May-26	31			0	1	0	302	0	0	0	0		2 418	0	0	0		0	85 560	0	0	0	80 000
	June-26 July-26	30 31	576 000	1	0	0	1	261 49909	0	0	0	0		2 418 2 418	0	0	0	0	0	82 800 85 560	0	0	0	250 000 0
Q3	August-26	31	0	_	0	0	1	6472	0	0	0	0			0	0	0	0	0	85 560	0	0	0	0
	September-26	30	0	1	0	0	1	10915	0	0	0	0		2 418	0	0	0	0	0	82 800	0	0	0	0
0.4	October-26	31	0	_	0	1	0	32339	0	0	0	0		2 418	0	0	0	0	0	85 560	0	0	0	0
Q4	November-26 December-26	30 31	0		0	1	0	1199 501	0	0	0	0	-	2 418 2 418	0	0	0	0	0	82 800 85 560	0	0		0
2026 AVERAG		31	1 226 000				Ü	101 974	0	0	0	0		29 016	0	0			0		0	0		710 000
	January-27	31	0	1	0	1	0	69	0	0	0	0	0	2 418	0	0	0	0	0	85 560	0	0	0	0

Q1	February-27	28	ا م	1	0	1	0	0	n	0	0	0	2 418	ol	٥	0	0	0 77 280	٥	n	0 0
42	March-27	31	0	1	0	1	0	0	0	0	0	0		0	0	0	0	0 85 560	0	0	0 0
	April-27	30	0	1	0	1	0	7	0	0		0		0	0	0	0	0 82 800	0	0	0 0
Q2	May-27	31	0	1	0	1	0	302	0	0		0		0	0	0	0	0 85 560	0	0	0 0
	June-27	30	0	1	0	0	1	261	0	0	-	0		0	0	0	0	0 82 800	0	0	0 0
-	July-27	31	0	1	0	0	1	62113	0	0		0		0	0	0	0	0 85 560	0	0	0 0
Q3	August-27	31	0	1	0	0	1	6472	0	0		0		0	0	0	0	0 85 560	0	0	0 0
٩٥	September-27	30	0	1	0	0	1	10915	0	0		0		0	0	0	0	0 82 800	0	0	0 0
_	October-27	31	0	1	0	1	0	32339	0	0		0 0		0	0	0	0	0 85 560	0	0	0 0
Q4	November-27	30	0	1	0	1	0	1199	0	0		0 0		0	0	0	0	0 82 800	0	0	0 0
۵.	December-27	31	0	1	0	1	0	501	0	0		0		0	0	0	0	0 85 560	0	0	0 0
2027 AVERAG	GES & TOTALS	31	0	_	Ü		Ů	114 178	0	0		0		0	0	0	0	0 1007400	0	0	0 0
2027 710211710	January-28	31	0	1	0	1.0	0.0	69	0	0		0		0	0	0	0	0 108 000	0	0	0 0
Q1	February-28	29	0	1	0	1.0	0.0	0	0	0		0		0	0	0	0	0 108 000	0	0	0 0
	March-28	31	0	1	0	1.0	0.0	0	0	0		0		0	0	0	0	0 108 000	0	0	0 0
	April-28	30	0	1	0	1.0	0.0	7	0	0		0		0	0	0	0	0 108 000	0	0	0 0
Q2	May-28	31	0	1	0	1.0	0.0	302	0	0		0		0	0	0	0	0 108 000	0	0	0 0
	June-28	30	0	1	0	1.0	0.0	261	0	0		0		0	0	0	0	0 108 000	0	0	0 0
	July-28	31	0	1	0	1.0	0.0	62113	0	0		0		0	0	0	0	0 108 000	0	0	0 0
Q3	August-28	31	0	1	0	1.0	0.0	6472	0	0	-	0		0	0	0	0	0 108 000	0	0	0 0
	September-28	30	0	1	0	1.0	0.0	10915	0	0		0		0	0	0	0	0 108 000	0	0	0 0
	October-28	31	0	1	0	1.0	0.0	32339	0	0	-	0		0	0	0	0	0 108 000	0	0	0 0
Q4	November-28	30	0	1	0	1.0	0.0	1199	0	0		0		0	0	0	0	0 108 000	0	0	0 0
	December-28	31	0	1	0	1.0	0.0	501	0	0		0		0	0	0	0	0 108 000	0	0	0 0
2028 AVERAG			0					114 178	0	0		0		0	0	0	0	0 1 296 000	0	0	0 0
	January-29	31	0	1	0	1.0	0.0	69	0	0		0		0	0	0	0	0 108 000	0	0	0 0
Q1	February-29	28	0	1	0	1.0	0.0	0	0	0		0		0	0	0	0	0 108 000	0	0	0 0
	March-29	31	0	1	0	1.0	0.0	0	0	0		0		0	0	0	0	0 108 000	0	0	0 0
	April-29	30	0	1	0	1.0	0.0	7	0	0	0	0		0	0	0	0	0 108 000	0	0	0 0
Q2	May-29	31	0	1	0	1.0	0.0	302	0	0		0		0	0	0	0	0 108 000	0	0	0 0
	June-29	30	0	1	0	1.0	0.0	261	0	0		0		0	0	0	0	0 108 000	0	0	0 0
	July-29	31	0	1	0	1.0	0.0	62113	0	0	0	0		0	0	0	0	0 108 000	0	0	0 0
Q3	August-29	31	0	1	0	1.0	0.0	6472	0	0		0		0	0	0	0	0 108 000	0	0	0 0
	September-29	30	0	1	0	1.0	0.0	10915	0	0		0		0	0	0	0	0 108 000	0	0	0 0
	October-29	31	0	1	0	1.0	0.0	32339	0	0		0		0	0	0	0	0 108 000	0	0	0 0
Q4	November-29	30	0	1	0	1.0	0.0	1199	0	0	0	0	2 418	0	0	0	0	0 108 000	0	0	0 0
	December-29	31	0	1	0	1.0	0.0	501	0	0	0	0		0	0	0	0	0 108 000	0	0	0 0
2029 AVERAG	GES & TOTALS		0					114 178	0	0	0	0	29 016	0	0	0	0	0 1 296 000	0	0	0 0
	January-30	31	0	1	0	1.0	0.0	69	0	0	0	0	2 418	0	0	0	0	0 108 000	0	0	0 0
Q1	February-30	28	0	1	0	1.0	0.0	0	0	0		0	2 418	0	0	0	0	0 108 000	0	0	0 0
	March-30	31	0	1	0	1.0	0.0	0	0	0	0	0	2 418	0	0	0	0	0 108 000	0	0	0 0
	April-30	30	0	1	0	1.0	0.0	7	0	0	0	0	2 418	0	0	0	0	0 108 000	0	0	0 0
Q2	May-30	31	0	1	0	1.0	0.0	302	0	0	0	0	2 418	0	0	0	0	0 108 000	0	0	0 0
	June-30	30	0	1	0	1.0	0.0	261	0	0	0	0	2 418	0	0	0	0	0 108 000	0	0	0 0
	July-30	31	0	1	0	1.0	0.0	62113	0	0	0	0	2 418	0	0	0	0	0 108 000	0	0	0 0
Q3	August-30	31	0	1	0	1.0	0.0	6472	0	0	0	0	2 418	0	0	0	0	0 108 000	0	0	0 0
	September-30	30	0	1	0	1.0	0.0	10915	0	0	0	0	2 418	0	0	0	0	0 108 000	0	0	0 0
	October-30	31	0	1	0	1.0	0.0	32339	0	0	0	0	2 418	0	0	0	0	0 108 000	0	0	0 0
Q4	November-30	30	0	1	0	1.0	0.0	1199	0	0	0	0	2 418	0	0	0	0	0 108 000	0	0	0 0
	December-30	31	0	1	0	1.0	0.0	501	0	0	0	0	2 418	0	0	0	0	0 108 000	0	0	0 0
2030 AVERAG	GES & TOTALS		0					114 178	0	0	0	0	29 016	0	0	0	0	0 1 296 000	0	0	0 0
	January-31	31	0	1	0	1.0	0.0	69	0	0	0	0	2 418	0	0	0	0	0 108 000	0	0	0 0
Q1	February-31	28	0	1	0	1.0	0.0	0	0	0	0	0	2 418	0	0	0	0	0 108 000	0	0	0 0
	March-31	31	0	1	0	1.0	0.0	0	0	0	0	0		0	0	0	0	0 108 000	0	0	0 0
	April-31	30	0	1	0	1.0	0.0	7	0	0		0		0	0	0	0	0 108 000	0	0	0 0
Q2	May-31	31	0	1	0	1.0	0.0	302	0	0		0		0	0	0	0	0 108 000	0	0	0 0
	June-31	30	0	1	0	1.0	0.0	261	0	0		0		0	0	0	0	0 108 000	0	0	0 0
	July-31	31	0	1	0	1.0	0.0	62113	0	0	0	0		0	0	0	0	0 108 000	0	0	0 0
Q3	August-31	31	0	1	0	1.0	0.0	6472	0	0		0		0	0	0	0	0 108 000	0	0	0 0
	September-31	30	0	1	0	1.0	0.0	10915	0	0		0		0	0	0	0	0 108 000	0	0	0 0
	October-31	31	0	1	0	1.0	0.0	32339	0	0		0		0	0	0	0	0 108 000	0	0	0 0
Q4	November-31	30	0	1	0	1.0	0.0	1199	0	0		0		0	0	0	0	0 108 000	0	0	0 0
	December-31	31	0	1	0	1.0	0.0	501	0	0		0		0	0	0	0	0 108 000	0	0	0 0
2031 AVERAG	SES & TOTALS		0				0.0	114 178 69	0	0		0		0	0	0	0	0 1 296 000 0 108 000	0	0	0 0
	January-32	31	0	1	0	1.0				0	0	0	2 418	0	0	o	0	0 108 000	0	0	

Q1	February-32	29	1	0 1	0	1.0	0.0	0	0 0	0	0 0	2 418	ا ا	0	0 0	108 000	0 0	0 0
	March-32	31		0 1	0	1.0	0.0	0	0 0	0	0	 	0 0	0	0 0		0 0	0 0
	April-32	30		0 1	0	1.0	0.0	7	0 0	0	0	2 418	0 0	0	0 0	108 000	0 0	0 0
Q2	May-32	31		0 1	0	1.0	0.0	302	0 0		0		0 0	0	0 0	108 000	0 (
	June-32	30		0 1	0	1.0	0.0	261	0 0	0	0		0 0	0	0 0	108 000	0 0	0 0
	July-32	31		0 1	0	1.0	0.0	62113	0 0	0	0	2 418	0 0	0	0 0	108 000	0 0	0 0
Q3	August-32	31		0 1	0	1.0	0.0	6472	0 0	0	0	2 418	0 0	0	0 0	108 000	0 (0 0
	September-32	30		0 1	0	1.0	0.0	10915	0 0	0	0	2 418	0 0	0	0 0	108 000	0 (0 0
	October-32	31		0 1	0	1.0	0.0	32339	0 0	0	0	2 418	0 0	0	0 0	108 000	0 (0 0
Q4	November-32	30		0 1	0	1.0	0.0	1199	0 0	0	0	2 418	0 0	0	0 0	108 000	0 (0 0
	December-32	31		0 1	0	1.0	0.0	501	0 0	0	0	2 418	0 0	0	0 0	108 000	0 (0 0
2032 AVERAG	GES & TOTALS		-	0				114 178	0 0		0		0 0	0	0 0		0 (0 0
	January-33	31		0 1	0	1.0	0.0	69	0 0		0		0 0	0	0 0	-00000	0 (
Q1	February-33	28		0 1	0	1.0	0.0	0	0 0		0		0 0	0	0 0	108 000	0 (
	March-33	31		0 1	0	1.0	0.0	0	0 0		0		0 0	0	0 0	108 000	0 (
	April-33	30		0 1	0	1.0	0.0	7	0 0		0		0 0	0	0 0	108 000	0 (
Q2	May-33	31		0 1	0	1.0	0.0	302	0 0		0		0 0	0	0 0	108 000	0 (
	June-33	30		0 1	0	1.0	0.0	261	0 0		0		0 0	0	0 0	108 000	0 (
	July-33	31		0 1	0	1.0	0.0	62113	0 0		0		0 0	0	0 0	108 000	0 (
Q3	August-33	31		0 1	0	1.0	0.0	6472	0 0		0		0 0	0	0 0	108 000	0 (
<u> </u>	September-33	30		0 1	0	1.0	0.0	10915	0 0	-	0		0 0	0	0 0	108 000	0 0	
Q4	October-33 November-33	31		0 1	0	1.0	0.0	32339 1199	0 0		0 0		0 0	0	0 0	108 000	0 0	
L 4	December-33	31		0 1	0	1.0	0.0	501	0 0		0 0		0 0	0	0 0	+ +	0 0	
2033 AVERAG	GES & TOTALS	31		0 1	U	1.0	0.0	114 178	0 0		0 0		0 0	0	0 0		0 0	
2000 71721010	January-34	31		0 1	0	1.0	0.0	69	0 0		0		0 0	0	0 0	108 000	0 0	
Q1	February-34	28		0 1	0	1.0	0.0	0	0 0		0		0 0	0	0 0	108 000	0 0	
	March-34	31		0 1	0	1.0	0.0	0	0 0		0		0 0	0	0 0	108 000	0 0	
	April-34	30		0 1	0	1.0	0.0	7	0 0		0		0 0	0	0 0	108 000	0 (0 0
Q2	May-34	31		0 1	0	1.0	0.0	302	0 0	0	0	2 418	0 0	0	0 0	108 000	0 (0 0
	June-34	30		0 1	0	1.0	0.0	261	0 0	0	0	2 418	0 0	0	0 0	108 000	0 (0 0
	July-34	31		0 1	0	1.0	0.0	62113	0 0	0	0	2 418	0 0	0	0 0	108 000	0 (0 0
Q3	August-34	31		0 1	0	1.0	0.0	6472	0 0	0	0	2 418	0 0	0	0 0	108 000	0 (0 0
	September-34	30		0 1	0	1.0	0.0	10915	0 0	0	0	2 418	0 0	0	0 0	108 000	0 (0 0
	October-34	31		0 1	0	1.0	0.0	32339	0 0		0		0 0	0	0 0	108 000	0 (
Q4	November-34	30		0 1	0	1.0	0.0	1199	0 0		0		0 0	0	0 0	108 000	0 (
	December-34	31		0 1	0	1.0	0.0	501	0 0		0		0 0	0	0 0	108 000	0 (
2034 AVERAG	GES & TOTALS			0				114 178	0 0		0		0 0	0	0 0		0 0	
	January-35	31		0 1	0	1.0	0.0	69	0 0		0		0 0	0	0 0		0 (0 0
Q1	February-35 March-35	28		0 1	0	1.0	0.0	0	0 0		0 0		0 0	0	0 0	108 000	0 0	0 0
-	April-35	31		0 1	0	1.0	0.0	7	0 0		0 0		0 0	0	0 0	108 000	0 0	
Q2	May-35	31		0 1	0	1.0	0.0	302	0 0		0 0		0 0	0	0 0	108 000	0 0	
Q2	June-35	30		0 1	0	1.0	0.0	261	0 0	-	0 0		0 0	0	0 0	108 000	0 0	-
	July-35	31		0 1	0	1.0	0.0	62113	0 0		0 0		0 0	0	0 0	108 000	0 0	
Q3	August-35	31		0 1	0	1.0	0.0	6472	0 0	-	0		0 0	0	0 0	108 000	0 0	
	September-35	30		0 1	0	1.0	0.0	10915	0 0		0 0		0 0	0	0 0	108 000	0 0	
	October-35	31		0 1	0	1.0	0.0	32339	0 0		0		0 0	0	0 0	108 000	0 0	
Q4	November-35	30		0 1	0	1.0	0.0	1199	0 0	0	0	2 418	0 0	0	0 0	108 000	0 0	0 0
	December-35	31		0 1	0	1.0	0.0	501	0 0		0	2 418	0 0	0	0 0	108 000	0 (0 0
2035 AVERAG	GES & TOTALS			0				114 178	0 0	0	0	29 016	0 0	0	0 0	1 296 000	0 (0 0
	January-36	31		0 1	0	1.0	0.0	69	0 0	0	0	2 418	0 0	0	0 0	108 000	0 (0 0
Q1	February-36	29		0 1	0	1.0	0.0	0	0 0		0		0 0	0	0 0		0 (
	March-36	31		0 1	0	1.0	0.0	0	0 0		0		0 0	0	0 0	108 000	0 (
	April-36	30		0 1	0	1.0	0.0	7	0 0		0		0 0	0	0 0	108 000	0 (
Q2	May-36	31		0 1	0	1.0	0.0	302	0 0		0		0 0	0	0 0	108 000	0 (
L	June-36	30		0 1	0	1.0	0.0	261	0 0		0		0 0	0	0 0	108 000	0 (0 0
	July-36	31		0 1	0	1.0	0.0	62113	0 0		0		0 0	0	0 0	108 000	0 (0 0
Q3	August-36	31		0 1	0	1.0	0.0	6472	0 0	-	0		0 0	0	0 0	108 000	0 (0 0
<u> </u>	September-36	30		0 1	0	1.0	0.0	10915	0 0		0		0 0	0	0 0	108 000	0 0	
Q4	October-36	31		0 1	0	1.0	0.0	32339	0 0	-	0 0		0 0	0	0 0	108 000	0 0	
	November-36	30		0 1	0	1.0	0.0	1199	0 0	U	0	2 418	0 0	U	0 0	108 000	U (0 ال

1	December-36	31	0 1		0	1.0	0.0	501	0	0	0	0	2 418	0	0	0	0	0	108 000	0	0	0 0
2036 AVERAG	SES & TOTALS		0					114 178	0	0		0		0	0	0	0		1 296 000	0	0	0 0
	January-37	31	0 1		0	1.0	0.0	69	0	0	0	0	2 418	0	0	0	0	0	108 000	0	0	0 0
Q1	February-37	28	0 1		0	1.0	0.0	0	0	0	0	0	2 418	0	0	0	0	0	108 000	0	0	0 0
	March-37	31	0 1		0	1.0	0.0	0	0	0	0	0	2 418	0	0	0	0	0	108 000	0	0	0 0
	April-37	30	0 1		0	1.0	0.0	7	0	0	0	0	2 418	0	0	0	0	0	108 000	0	0	0 0
Q2	May-37	31	0 1		0	1.0	0.0	302	0	0	0	0	2 418	0	0	0	0	0	108 000	0	0	0 0
	June-37	30	0 1		0	1.0	0.0	261	0	0	0	0	2 418	0	0	0	0	0	108 000	0	0	0 0
	July-37	31	0 1		0	1.0	0.0	62113	0	0	0	0	2 418	0	0	0	0	0	108 000	0	0	0 0
Q3	August-37	31	0 1		0	1.0	0.0	6472	0	0	0	0	2 418	0	0	0	0	0	108 000	0	0	0 0
	September-37	30	0 1		0	1.0	0.0	10915	0	0	0	0	2 418	0	0	0	0	0	108 000	0	0	0 0
	October-37	31	0 1		0	1.0	0.0	32339	0	0	0	0	2 418	0	0	0	0	0	108 000	0	0	0 0
Q4	November-37	30	0 1		0	1.0	0.0	1199	0	0	0			0	0	0	0	0	108 000	0	0	0 0
	December-37	31	0 1		0	1.0	0.0	501	0	0	0			0	0	0	0	0	108 000	0	0	0 0
2037 AVERAG	SES & TOTALS		0					114 178	0	0	-	0		0	0	0	0	0	1 296 000	0	0	0 0
	January-38	31	0 1	_	0	1.0	0.0	69	0	0		0		0	0	0	0	0	108 000	0	0	0 0
Q1	February-38	28	0 1		0	1.0	0.0	0	0	0	0			0	0	0	0	0	108 000	0	0	0 0
	March-38	31	0 1	-	0	1.0	0.0	0	0	0	0			0	0	0	0	0	108 000	0	0	0 0
	April-38	30	0 1	-	0	1.0	0.0	7	0	0	0			0	0	0	0	0	108 000	0	0	0 0
Q2	May-38	31	0 1	_	0	1.0	0.0	302	0	0	0			0	0	0	0	0	108 000	0	0	0 0
	June-38	30	0 1	-	0	1.0	0.0	261	0	0	0			0	0	0	0	0	108 000	0	0	0 0
Q3	July-38	31	0 1	_	0	1.0	0.0	62113	0	0	0			0	0	0	0	0	108 000	0	0	0 0
Ų3	August-38	31	0 1		0	1.0	0.0	6472						0		0		0	108 000			
-	September-38 October-38	30 31	0 1	-	0	1.0	0.0	10915 32339	0	0	0			0	0	0	0	0	108 000 108 000	0	0	0 0
Q4	November-38	30			0	1.0	0.0	1199	0	0		-		0	0	0	0	0	108 000	0	0	0 0
Q4	December-38	31	0 1	_	0	1.0	0.0	501	0	0		0 0		0	0	0	0	0	108 000	0	0	0 0
2038 AVERAG	SES & TOTALS	31	0		U	1.0	0.0	114 178	0	0		0 0		0	0	0	0	0	1 296 000	0	0	0 0
2038 AVERAC	January-39	31	0 1		0	1.0	0.0	69	0	0		0 0		0	0	0	0	0	108 000	0	0	0 0
Q1	February-39	28	0 1	_	0	1.0	0.0	0	0	0	0			0	0	0	0	0	108 000	0	0	0 0
	March-39	31	0 1		0	1.0	0.0	0	0	0	0			0	0	0	0	0	108 000	0	0	0 0
	April-39	30	0 1	-	0	1.0	0.0	7	0	0	0			0	0	0	0	0	108 000	0	0	0 0
Q2	May-39	31	0 1		0	1.0	0.0	302	0	0	0			0	0	0	0	0	108 000	0	0	0 0
	June-39	30	0 1	-	0	1.0	0.0	261	0	0	0			0	0	0	0	0	108 000	0	0	0 0
	July-39	31	0 1	_	0	1.0	0.0	62113	0	0	0			0	0	0	0	0	108 000	0	0	0 0
Q3	August-39	31	0 1	-	0	1.0	0.0	6472	0	0	0			0	0	0	0	0	108 000	0	0	0 0
	September-39	30	0 1		0	1.0	0.0	10915	0	0	0			0	0	0	0	0	108 000	0	0	0 0
	October-39	31	0 1		0	1.0	0.0	32339	0	0	0			0	0	0	0	0	108 000	0	0	0 0
Q4	November-39	30	0 1		0	1.0	0.0	1199	0	0	0	0	2 418	0	0	0	0	0	108 000	0	0	0 0
	December-39	31	0 1		0	1.0	0.0	501	0	0	0	0	2 418	0	0	0	0	0	108 000	0	0	0 0
2039 AVERAG	GES & TOTALS		0					114 178	0	0	0	0	29 016	0	0	0	0	0	1 296 000	0	0	0 0
	January-40	31	0 1		0	1.0	0.0	69	0	0	0	0	2 418	0	0	0	0	0	108 000	0	0	0 0
Q1	February-40	29	0 1		0	1.0	0.0	0	0	0	0	0	2 418	0	0	0	0	0	108 000	0	0	0 0
	March-40	31	0 1		0	1.0	0.0	0	0	0	0	0	2 418	0	0	0	0	0	108 000	0	0	0 0
	April-40	30	0 1		0	1.0	0.0	7	0	0	0			0	0	0	0	0	108 000	0	0	0 0
Q2	May-40	31	0 1	-	0	1.0	0.0	302	0	0	0			0	0	0	0	0	108 000	0	0	0 0
	June-40	30	0 1	-	0	1.0	0.0	261	0	0	0	4		0	0	0	0	0	108 000	0	0	0 0
	July-40	31	0 1		0	1.0	0.0	62113	0	0	0			0	0	0	0	0	108 000	0	0	0 0
Q3	August-40	31	0 1	-	0	1.0	0.0	6472	0	0	0			0	0	0	0	0	108 000	0	0	0 0
	September-40	30	0 1	_	0	1.0	0.0	10915	0	0	0			0	0	0	0	0	108 000	0	0	0 0
	October-40	31	0 1	-	0	1.0	0.0	32339	0	0	0			0	0	0	0	0	108 000	0	0	0 0
Q4	November-40	30	0 1	_	0	1.0	0.0	1199	0	0	0			0	0	0	0	0	108 000	0	0	0 0
2040 AVERAG	December-40	31	0 1		0	1.0	0.0	501 114 178	0	0	0			0	0	0	0	0	108 000 1 296 000	0	0	0 0
2040 AVERAG		24	0 1		0	1.0	0.0		0	0		0		0	0	0	0	0		0		0 0
Q1	January-41	31 28	0 1	-	0	1.0	0.0	69	0	0	0	0 0		0	0	0	0	0	108 000	0	0	0 0
, qı	February-41 March-41	31	0 1	-	0	1.0	0.0	0	0	0	0			0	0	0	0	0	108 000 108 000	0	0	0 0
<u> </u>	April-41	30	0 1		0	1.0	0.0	7	0	0	0			0	0	0	0	0	108 000	0	0	0 0
Q2	May-41	31	0 1	_	0	1.0	0.0	302	0	0	0			0	0	0	0	0	108 000	0	0	0 0
ا	June-41	30	0 1		0	1.0	0.0	261	0	0	0			0	0	0	0	0	108 000	0	0	0 0
	July-41	31	0 1	-	0	1.0	0.0	62113	0	0	0	_		0	0	0	0	0	108 000	0	0	0 0
Q3	August-41	31	0 1		0	1.0	0.0	6472	0	0	0	-		0	0	0	0	0	108 000	0	0	0 0
ı ~~	August 41	21	0 1		J	1.0	0.0	0472	<u> </u>	Ů,	٥	1	2 710	<u> </u>	٠,			v	100 000	۰	<u> </u>	<u> </u>

1	September-41	30	0	1	0	1.0	0.0	10915	0	0	0	0	2 418	0	0	0	0	0 108 000	0	0	0 0
	October-41	31	0	1	0	1.0	0.0	32339	0	0	0	0	2 418	0	0	0	0	0 108 000	0	0	0 0
Q4	November-41	30	0	1	0	1.0	0.0	1199	0	0	0	0	2 418	0	0	0	0	0 108 000	0	0	0 0
	December-41	31	0	1	0	1.0	0.0	501	0	0	0	0	2 418	0	0	0	0	0 108 000	0	0	0 0
2041 AVERA	GES & TOTALS		0					114 178	0	0	0	0	29 016	0	0	0	0	0 1 296 000	0	0	0 0
	January-42	31	0	1	0	1.0	0.0	69	0	0	0	0	2 418	0	0	0	0	0 108 000	0	0	0 0
Q1	February-42	28	0	1	0	1.0	0.0	0	0	0	0	0	2 418	0	0	0	0	0 108 000	0	0	0 0
	March-42	31	0	1	0	1.0	0.0	0	0	0	0	0	2 418	0	0	0	0	0 108 000	0	0	0 0
	April-42	30	0	1	0	1.0	0.0	7	0	0	0	0	2 418	0	0	0	0	0 108 000	0	0	0 0
Q2	May-42	31	0	1	0	1.0	0.0	302	0	0	0	0	2 418	0	0	0	0	0 108 000	0	0	0 0
	June-42	30	0	1	0	1.0	0.0	261	0	0	0	0	2 418	0	0	0	0	0 108 000	0	0	0 0
	July-42	31	0	1	0	1.0	0.0	62113	0	0	0	0	2 418	0	0	0	0	0 108 000	0	0	0 0
Q3	August-42	31	0	1	0	1.0	0.0	6472	0	0	0	0	2 418	0	0	0	0	0 108 000	0	0	0 0
	September-42	30	0	1	0	1.0	0.0	10915	0	0	0	0	2 418	0	0	0	0	0 108 000	0	0	0 0
	October-42	31	0	1	0	1.0	0.0	32339	0	0	0	0	2 418	0	0	0	0	0 108 000	0	0	0 0
Q4	November-42	30	0	1	0	1.0	0.0	1199	0	0	0	0	2 418	0	0	0	0	0 108 000	0	0	0 0
	December-42	31	0	1	0	1.0	0.0	501	0	0	0	0	2 418	0	0	0	0	0 108 000	0	0	0 0
2042AVERAG	ES & TOTALS		0					114 178	0	0	0	0	29 016	0	0	0	0	0 1 296 000	0	0	0 0

	32 3	36 37	38	39	40	41	42	43	44	45	46	47		53 57		59	60	61	67 7
		TW						IVR Att	n. Pond					<u> </u>			WT WRSF P	ond	
	Theoretical (Flows)	ath pon	_		Inflows	(m3)					Outfloo	ws (m3)		Theoretical (Flows)	Inflow	vs (m3)	Outflov	vs (m3)	Theoretical (Flows)
IVR Pit	Total Pond Volume (Ice + Water) (m ³)	Precip / Runoff (m3	WT Attn. Pond	IVR Pit (South)	WT Pit	A47 / A49	IVR WRSF	WT WRSF	NWS	WTS (via WTP)	MM (via WTP)	Dewatering	IVR Pit	Total Pond Volume (Ice + Water) (m³)	Precip / Runoff (m3)	WRSF	WT Attn. Pond	IVR Attn. Pond	Total Pond Volume (Ice + Water) (m ³)
														0.000					16 611.000
		427 33				0		0	0		0				75 923			0	
		967 79	1 632 029	58 938	43 068	275 738	23 554	47 249	45 488	656 288	1 434 192	0			23 935	32 697	9 383	47 249	
		-180 33	1 749 409	0	1 737	434 103	53 262	34 667	0	705 132	1 282 941	0			30 279	4 286	0	34 667	
	125 428	68 49				0	0		0	116 077	0	0		639 374	-209		0	0	3 079
	129 265	-218 82		0		0	0		0	105 464	0	0		413 623	-417	0	0	0	2 662
	87 963	122 04		0		0			0	69 400	0	0		585 880	-634	0	0		2 029
	43 943	-168 83		-		0	0	_	0	131 721	0	0		407 250	-64		0	0	1 965
	119 186	263 08		0		26 976	57 485	0	0	333 102	0	0		627 348	-10 818	15 318	3 640	0	2 825
	47 420	72 74		0		58 689	23 330	0	0	0	539 350	0		492 035	9 062	445	2.025	0	12 331
	60 126 29 920	3 19 14 02		0		6 595 4 807	9 893 9 651	0	0	0	132 538 178 629	0		513 379 562 382	392 8 446	100 1 981	2 925 7 603	0	9 899
	94 172	64 88				9 579	5 288	0	0	49 723	269 991	0		490 573	5 371	1 981	7 603	0	10 885
90 935	59 773	21 06		0		3 168	1 520	0	0	39 009	209 991	0	136 400		3 015	0	1 508	0	12 392
31 672	91 836	-16 22		0		3 108	1 320	0	0	39 009	0	0	81 956	625 139	-9 737	0	1 308	0	2 654
85 451	136 096	65 58				0	0		0	0	0	0	80 623		-568	0	0	0	2 086
122 607	130 050	291 23				109 814		0	0	-					3 839	_	22 885	0	
207 658	-11 953	10				62 721	0	0	0	100 000	0	0			24		0	0	2 110
0	-29 495		100 000	0		43 703	0	-	0	100 000	0	0	0		0		0	0	2 110
0	-41 517		100 000			71 320	0		0	150 000	0	0	0		0	0	0	0	2 110
0	-36 293	1	_	0		48 680	0	0	0	150 000	0	0	0		2	0	0	0	2 112
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0	-123 162	18 14		0		54 546	0		0	216 000	0	0	C		13 385	0	0	0	-39 742
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0	-44 277	1		0		71 320 48 680	0	0	0	150 000	0	0	0		2	0	0	0	-39 131 -39 129
0	-39 053	47				54 592	0	0	0	150 000	0	0	0		104		0	0	-39 129
0	-185 293	47		49 849		139 292	19 879		15 135	150 000	576 000	0	0		90		0	60 000	-88 935
0	-167 406	32 46				100 189	1 996	25 000	1520	0	350 000	0	0		25 869		0	25 000	-79 066
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0	220 905	0	0	C	0	0	0	0	0	0	0	0	0	958 766	0	0	0	0	11 403
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0	552 468	477	0	С	0	0	0	0	0	0	0	0	0	1 023 303	104	0	0	0	58 768
0	663 147	412	0	С	0	0	0	0	0	0	0	0	0	1 023 714	90	0	0	0	58 858

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0	1 073 901	6 123	0	0	0	0	0	0	0	0	0	0	0	1 065 936	4 518	0	0	0	91 924
0	1 216 658	18 141	0	0	0	0	0	0	0	0	0	0	0	1 084 077	13 385	0	0	0	105 309
0	1 328 275	1 891	0	0	0	0	0	0	0	0	0	0	0	1 085 967	414	0	0	0	105 723
0	1 439 194	789	0	0	0	0	0	0	0	0	0	0	0	1 086 757	173	0	0	0	105 896
0		64 049	0	0	0	0	0	0	0	0	0	0	0		47 259	0	0	0	
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0	220 905	0	0	0	0	0	0	0	0	0	0	0	0	1 086 865	0	0	0	0	105 920
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0	1 073 901	6 123	0	0	0	0	0	0	0	0	0	0	0	1 129 985	4 518	0	0	0	139 183
0	1 216 658	18 141	0	0	0	0	0	0	0	0	0	0	0	1 148 126	13 385	0	0	0	152 568
0	1 328 275	1 891	0	0	0	0	0	0	0	0	0	0	0	1 150 017	414	0	0	0	152 982
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0	220 905	0	0	0	0	0	0	0	0	0	0	0	0	1 150 914	0	0	0	0	153 179
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0	1 216 658	18 141	0	0	0	0	0	0	0	0	0	0	0	1 212 176	13 385	0	0	0	199 826
0	1 328 275	1 891	0	0	0	0	0	0	0	0	0	0	0	1 214 066	414	0	0	0	200 241
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0	1 073 901	6 123	0	0	0	0	0	0	0	0	0	0	0	1 258 084	4 518	0	0	0	233 700
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0 441747 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1471173 2 0 0 0 0 389 474 0 0 552 468 477 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1471649 104 0 0 0 0 389 578 0 0 663 147 412 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1472 061 90 0 0 0 389 668 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	220 905	0	0	0 0	0	0	0 0	0	0 0	0	1 471 162	0	0	0	0	389 471
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0 663 147 412 0	0	441 747	11	0	0 0	0	0	0 0	0	0 0	0	1 471 173	2	0	0	0	389 474
0 835 678 32 467 0	0	552 468	477	0	0 0	0	0	0 0	0	0 0	0	1 471 649	104	0	0	0	389 578
0 952 568 3 631 0 0 0 0 0 0 0 0 0 0 0 1 508 159 2 679 0 0 0 418 216	0	663 147	412	0	0 0	0	0	0 0	0	0 0	0	1 472 061	90	0	0	0	389 668
	0	835 678	32 467	0	0 0	0	0	0 0	0	0 0	0	1 504 528	25 869	0	0	0	415 537
0 1073 901 6 123 0 0 0 0 0 0 0 0 0 0 0 0 1514 282 4518 0 0 0 422 734	0	952 568	3 631	0	0 0	0	0	0 0	0	0 0	0	1 508 159	2 679	0	0	0	418 216
	0	1 073 901	6 123	0	0 0	0	0	0 0	0	0 0	0	1 514 282	4 518	0	0	0	422 734
0 1216658 18141 0 0 0 0 0 0 0 0 0 0 0 0 1532423 13385 0 0 0 436115	0	1 216 658	18 141	0	0 0	0	0	0 0	0	0 0	0	1 532 423	13 385	0	0	0	436 119
0 1328 275 1891 0 0 0 0 0 0 0 0 0 0 0 1534 314 414 0 0 0 436 533	0	1 328 275	1 891	0	0 0	0	0	0 0	0	0 0	0	1 534 314	414	0	0	0	436 533
0 1439194 789 0 0 0 0 0 0 0 0 0 0 0 0 1535103 173 0 0 0 436706	0	1 439 194	789	0	0 0	0	0	0 0	0	0 0	0	1 535 103	173	0	0	0	436 706
0 64 049 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0		64 049	0	0 0	0	0	0 0	0	0 0	0		47 259	0	0	0	
0 110 487 108 0 0 0 0 0 0 0 0 0 0 0 1535 211 24 0 0 0 436 730	0	110 487	108	0	0 0	0	0	0 0	0	0 0	0	1 535 211	24	0	0	0	436 730
0 220 905 0 0 0 0 0 0 0 0 0 0 0 0 0 1535 211 0 0 0 0 436 730	0	220 905	0	0	0 0	0	0	0 0	0	0 0	0	1 535 211	0	0	0	0	436 730
0 331323 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1535211 0 0 0 0 436730	0	331 323	0	0	0 0	0	0	0 0	0	0 0	0	1 535 211	0	0	0	0	436 730
0 441747 11 0 0 0 0 0 0 0 0 0 0 0 0 1535222 2 0 0 0 0 436732	0	441 747	11	0	0 0	0	0	0 0	0	0 0	0	1 535 222	2	0	0	0	436 732
	0	552 468	477	0	0 0	0	0	0 0	0	0 0	0		104	0	0	0	436 837
0 663 147 412 0 0 0 0 0 0 0 0 0 0 0 0 1536 110 90 0 0 0 436 927	0	663 147	412	0	0 0	0	0	0 0	0	0 0	0	1 536 110	90	0	0	0	436 927
0 835 678 32 467 0 0 0 0 0 0 0 0 0 0 0 0 0 1568 578 25 869 0 0 0 462 796	0	835 678	32 467	0	0 0	0	0	0 0	0	0 0	0	1 568 578	25 869	0	0	0	462 796

0	952 568	3 631	ol	ol o	l ol	ol	ol o	ol	0 0	0	1 572 209	2 679	0	٥	0	465 475
0	1 073 901	6 123	-	0 0	0	-	0 0	0	0 0		1 578 332	4 518	0	0	0	469 993
0	1 216 658	18 141		0 0	0		0 0	0	0 0		1 596 473	13 385	0	0	0	483 378
0	1 328 275	18141		0 0	0	0	0 0	0	0 0	0	1 598 363	414	0	0	0	483 792
0	1 439 194	789	-	0 0	-		0 0	0	0 0		1 599 153	173	0	0	0	483 965
0	1 439 194	64 049		0 0			0 0	0	0 0		1 399 133	47 259	0	0	0	483 903
0	110 487	108		0 0			0 0	0	0 0		1 599 261	24	0	0	0	483 989
0	220 905	0		0 0	0		0 0	0	0 0		1 599 261	0	0	0	0	483 989
0	331 323	0	-	0 0	0	0	0 0	0	0 0	0	1 599 261	0	0	0	0	483 989
0	441 747	11		0 0		-	0 0	0	0 0	-	1 599 272	2	0	0	0	483 991
0	552 468	477		0 0			0 0	0	0 0		1 599 748	104	0	0	0	484 095
0	663 147	412		0 0			0 0	0	0 0		1 600 160	90	0	0	0	484 185
0	835 678	32 467		0 0	0		0 0	0	0 0		1 632 627	25 869	0	0	0	510 054
0	952 568	3 631		0 0	0	0	0 0	0	0 0	0	1 636 258	2 679	0	0	0	512 733
0	1 073 901	6 123		0 0	0		0 0	0	0 0	0	1 642 381	4 518	0	0	0	517 251
0	1 216 658	18 141		0 0	0		0 0	0	0 0	0	1 660 522	13 385	0	0	0	530 636
0	1 328 275	1891		0 0	_	-	0 0	0	0 0		1 662 413	414	0	0	0	531 051
0	1 439 194	789		0 0			0 0	0	0 0		1 663 202	173	0	0	0	531 223
0	1 439 134	64 049		0 0			0 0	0	0 0		1 003 202	47 259	0	0	0	331 223
0	110 487	108		0 0			0 0	0	0 0	0	1 663 310	24	0	0	0	531 247
0	220 905	0		0 0	-		0 0	0	0 0		1 663 310	0	0	0	0	531 247
0	331 323	0		0 0			0 0	0	0 0		1 663 310	0	0	0	0	531 247
0	441 747	11	-	0 0			0 0	0	0 0		1 663 321	2	0	0	0	531 249
0	552 468	477		0 0	0		0 0	0	0 0		1 663 798	104	0	0	0	531 354
0	663 147	412		0 0	0	0	0 0	0	0 0	0	1 664 209	90	0	0	0	531 444
0	835 678	32 467	0	0 0	0	0	0 0	0	0 0	0	1 696 677	25 869	0	0	0	557 313
0	952 568	3 631	0	0 0	0	0	0 0	0	0 0	0	1 700 308	2 679	0	0	0	559 992
0	1 073 901	6 123		0 0			0 0	0	0 0		1 706 431	4 518	0	0	0	564 510
0	1 216 658	18 141		0 0	0		0 0	0	0 0		1 724 572	13 385	0	0	0	577 895
0	1 328 275	1 891		0 0	0		0 0	0	0 0		1 726 462	414	0	0	0	578 309
0	1 439 194	789	0	0 0		0	0 0	0	0 0	0	1 727 252	173	0	0	0	578 482
0		64 049		0 0	0	0	0 0	0	0 0	0		47 259	0	0	0	
0	110 487	108	0	0 0	0		0 0	0	0 0	0	1 727 360	24	0	0	0	578 506
0	220 905	0	0	0 0	0	0	0 0	0	0 0	0	1 727 360	0	0	0	0	578 506
0	331 323	0	0	0 0	0	0	0 0	0	0 0	0	1 727 360	0	0	0	0	578 506
0	441 747	11	0	0 0	0	0	0 0	0	0 0	0	1 727 371	2	0	0	0	578 508
0	552 468	477	0	0 0	0	0	0 0	0	0 0	0	1 727 847	104	0	0	0	578 612
0	663 147	412	0	0 0	0	0	0 0	0	0 0	0	1 728 259	90	0	0	0	578 703
0	835 678	32 467	0	0 0	0	0	0 0	0	0 0	0	1 760 726	25 869	0	0	0	604 572
0	952 568	3 631	0	0 0	0	0	0 0	0	0 0	0	1 764 357	2 679	0	0	0	607 251
0	1 073 901	6 123	0	0 0	0	0	0 0	0	0 0	0	1 770 480	4 518	0	0	0	611 768
0	1 216 658	18 141	0	0 0	0	0	0 0	0	0 0	0	1 788 621	13 385	0	0	0	625 154
0	1 328 275	1 891	0	0 0	0	0	0 0	0	0 0	0	1 790 512	414	0	0	0	625 568
0	1 439 194	789	0	0 0	0	0	0 0	0	0 0	0	1 791 301	173	0	0	0	625 741
0		64 049	0	0 0	0	0	0 0	0	0 0	0		47 259	0	0	0	
0	110 487	108	0	0 0	0	0	0 0	0	0 0	0	1 791 409	24	0	0	0	625 764
0	220 905	0	0	0 0	0	0	0 0	0	0 0	0	1 791 409	0	0	0	0	625 764
0	331 323	0	0	0 0	0	0	0 0	0	0 0	0	1 791 409	0	0	0	0	625 764
0	441 747	11	0	0 0	0	0	0 0	0	0 0	0	1 791 420	2	0	0	0	625 767
0	552 468	477	0	0 0	0	0	0 0	0	0 0	0	1 791 897	104	0	0	0	625 871
0	663 147	412		0 0	0		0 0	0	0 0		1 792 308	90	0	0	0	625 961
0	835 678	32 467	0	0 0	0	0	0 0	0	0 0	0	1 824 776	25 869	0	0	0	651 830

0	952 568	3 631	0	0	0	0	0	0	(0	0	0	0	1 828 407	2 679	0	0	0	654 509
0	1 073 901	6 123	0	0	0	0	0	0	(0	0	0	0	1 834 530	4 518	0	0	0	659 027
0	1 216 658	18 141	0	0	0	0	0	0	(0	0	0	0	1 852 671	13 385	0	0	0	672 412
0	1 328 275	1 891	0	0	0	0	0	0	(0	0	0	0	1 854 561	414	0	0	0	672 826
0	1 439 194	789	0	0	0	0	0	0	(0	0	0	0	1 855 351	173	0	0	0	672 999
0		64 049	0	0	0	0	0	0	(0	0	0	0		47 259	0	0	0	

81	85	86	87	88	89	90	96	##	101	102	105	106	109	115 ##
	Mam			WT	S			STW			AP	5 / GSP-1		AP5
Theoretical (Flows)	mmoth La		Inflows (m3)		Outflov	ws (m3)	Theoretical (Flows)	S		Inflows (m3)		Outflow	/s (m3)	Theoretical (Flows)
Total Lake Volume (Ice+Water) (m3)	ke	Precip / Runoff (m3)	WTD Seepage	WTP (Temp + Perm Diffusors)	SWTCH	MM Lake	Total Lake Volume (Ice+Water) (m3)		Runoff + direct precip (m3)	Under Ground Portal	WT Attn. Pond	WT Attn. Pond	GSP 2	Total Lake Volume (Ice+Water) (m3)
6 178 592	2						13 363 587	1						18 082
		2497757	0	1495274	3961159	0			-25057	2297	39057	24362	0	
		2718564	0	1261391	4601464	0			32943	2806	0	0	0	
		960651	0	1115284	2075935	0			10536	2550	0	0	0	
5 683 146	1 [-179 060	0	116 077	0	0	12 710 966		21	0	0	0	0	61 886
5 683 146		-168 447	0	105 464	0	0	12 647 983		0	0	0	0	0	62 222
5 683 146		-287 906	0	69 400	0	0	12 429 477		0	0	0	0	0	62 594
5 683 146		-131 721	0	131 721	0	0	12 429 477		2	0	0	0	0	62 956
6 186 916		2 618 066	0	333 102	1 017 458	0	14 363 187		92	110	0	0	0	64 054
5 907 649		217 054	0	0	951 518	0	13 628 723		79	0	0	0	0	64 841
5 399 822		-308 882	0	0	297 296	0	13 022 545		5 238	0	0	0	0	68 307
5 416 940		86 033	0	0	11 505	0	13 097 073		597	0	0	0	0	66 082
5 588 753		645 745	0	25 915	330 053	0	13 438 681		1 007	0	0	0	0	67 386
5 493 076		247 381	0	39 009	405 417	0	13 319 654		2 984	0	0	0	0	70 948
5 495 764		-39 083	0	0	204 560	0	13 076 011		364	0	0	0	0	71 312
5 548 172		-270 570	0	0	0	0	12 805 441		152	0	0	0	0	71 464
		2428610	0	820688	3217807	0			10536	110	0	0	0	
5 339 254		556 513	0	100 000	0	0	13 461 954		21	0	0	0	0	71 485
5 339 254		-100 000	0	100 000	0	0	13 461 954		0	0	0	0	0	71 485
5 339 254		-150 000	0	150 000	0	0	13 461 954		0	0	0	0	0	71 485
5 339 254		-150 000	0	150 000	0	0	13 461 954		2	0	0	0	0	71 487
5 339 254		-150 000	0	150 000	0	0	13 461 954		92	0	0	0	0	69 302
5 339 254		462 000	0	288 000	750 000	0	13 461 954		79	850	0	0	0	68 101
5 339 254		750 000	0	0	750 000	0	13 461 954		5 238	850	0	0	0	70 858
5 339 254		300 000	0	0	300 000	0	13 461 954		597	850	0	0	0	68 670
5 339 254		300 000	0	0	300 000	0	13 461 954		1 007	0	0	0	0	67 344
5 339 254	4	92 000	0	108 000	200 000	0	13 461 954		2 984	0	0	0	0	69 009
5 339 254	4	-50 000	0	100 000	50 000	0	13 461 954	4	364	0	0	0	0	69 373
5 339 254]	-100 000	0	100 000	0	0	13 461 954		152	0	0	0	0	69 525
	Ų,	1760513	0		2350000	0		Ų,	10536	2550	0			
5 339 254		-100 000	0	100 000	0	0	13 461 954		21	0	0	0	0	69 546
5 339 254		-100 000	0	100 000	0	0	13 461 954		0	0	0	0	0	69 546
5 339 254		-150 000	0	150 000	0	0	13 461 954		0	0	0	0	0	69 546
5 339 254		-150 000	0	150 000	0	0	13 461 954		2	0	0	0	0	69 548
5 339 254		-150 000	0	150 000	0	0	13 461 954		92	0	0	0	0	68 536
5 339 254		462 000	0	288 000	750 000	0	13 461 954		79	850	0	0	0	70 164
5 339 254		750 000	0	0	750 000	0	13 461 954		5 238	850	0	0	0	75 333

5 339 254	300 000	0	0	300 000	0	13 461 954		597	850	0	0	0	75 844
5 339 254	300 000	0	0	300 000	0	13 461 954		1 007	0	0	0	0	76 994
5 339 254	92 000	0	108 000	200 000	0	13 461 954		2 984	0	0	0	0	80 838
5 339 254	-50 000	0	100 000	50 000	0	13 461 954		364	0	0	0	0	81 202
5 339 254	-100 000	0	100 000	0	0	13 461 954		152	0	0	0	0	81 354
	1104000	0	1246000	2350000	0			10536	2550	0	0	0	
5 339 254	-100 000	0	100 000	0	0	13 461 954		21	0	0	0	0	81 375
5 339 254	-100 000	0	100 000	0	0	13 461 954		0	0	0	0	0	81 375
5 339 254	-150 000	0	150 000	0	0	13 461 954		0	0	0	0	0	81 375
5 339 254	-150 000	0	150 000	0	0	13 461 954		2	0	0	0	0	81 377
5 339 254	-150 000	0	150 000	0	0	13 461 954		92	0	0	0	0	80 608
5 339 254	462 000	0	288 000	750 000	0	13 461 954		79	850	0	0	0	80 479
5 339 254	750 000	0	0	750 000	0	13 461 954		5 238	850	0	0	0	83 790
5 339 254	300 000	0	0	300 000	0	13 461 954		597	850	0	0	0	82 443
5 339 254	300 000	0	0	300 000	0	13 461 954		1 007	0	0	0	0	81 701
5 339 254	200 000	0	0	200 000	0	13 461 954		2 984	0	0	0	0	83 446
5 339 254	50 000	0	0	50 000	0	13 461 954		364	0	0	0	0	83 810
5 339 254	0	0	0	0	0	13 461 954		152	0	0	0	0	83 962
	1412000	0	938000	2350000	0			10536	2550	0	0	0	
5 339 254	0	0	0	0	0	13 461 954		21	0	0	0	0	83 983
5 339 254	0	0	0	0	0	13 461 954		0	0	0	0	0	83 983
5 339 254	0	0	0	0	0	13 461 954		0	0	0	0	0	83 983
5 339 254	0	0	0	0	0	13 461 954		2	0	0	0	0	83 985
5 339 254	0	0	0	0	0	13 461 954		92	0	0	0	0	82 831
5 339 254	747 028	0	0	747 028	0	13 461 954		79	850	0	0	0	82 322
5 339 254	317 682	0	0	317 682	0	13 461 954		5 238	850	0	0	0	87 285
5 339 254	360 300	0	0	360 300	0	13 461 954		597	850	0	0	0	87 410
5 339 254	251 587	0	0	251 587	0	13 461 954		1 007	0	0	0	0	88 145
5 339 254	218 411	0	0	218 411	0	13 461 954		2 984	0	0	0	0	92 124
5 339 254	46 062	0	0	46 062	0	13 461 954		364	0	0	0	0	93 388
5 339 254	0	0	0	0	0	13 461 954		152	0	0	0	0	94 470
	1941070	0	0	1941070	0		Ų	10536	2550	0	0	0	
5 339 254	0	0	0	0	0	13 461 954		21	0	0	0	0	94 491
5 339 254	0	0	0	0	0	13 461 954	-	0	0	0	0	0	94 491
5 339 254	0	0	0	0	0	13 461 954	-	0	0	0	0	0	94 491
5 339 254	0	0	0	0	0	13 461 954		2	0	0	0	0	94 493
5 339 254	0	0	0	0	0	13 461 954		92	0	0	0	0	94 585
5 339 254	0	0	0	0	0	13 461 954	_	79	0	0	0	0	94 664
5 339 254	0	0	0	0	0	13 461 954		5 238	0	0	0	0	99 902
5 339 254	0	0	0	0	0	13 461 954		597	0	0	0	0	100 499
5 339 254	0	0	0	0	0	13 461 954		1 007	0	0	0	0	101 506
5 339 254	0	0	0	0	0	13 461 954		2 984	0	0	0	0	104 490
5 339 254	0	0	0	0	0	13 461 954		364	0	0	0	0	104 854
5 339 254	0	0	0	0	0	13 461 954		152	0	0	0	0	105 006

	0	0	0	0	0			10536	0	0	0	0	
5 339 254	0	0	0	0	0	13 461 954		21	0	0	0	0	105 027
5 339 254	0	0	0	0	0	13 461 954		0	0	0	0	0	105 027
5 339 254	0	0	0	0	0	13 461 954		0	0	0	0	0	105 027
5 339 254	0	0	0	0	0	13 461 954		2	0	0	0	0	105 029
5 339 254	0	0	0	0	0	13 461 954		92	0	0	0	0	105 121
5 339 254	0	0	0	0	0	13 461 954		79	0	0	0	0	105 200
5 339 254	0	0	0	0	0	13 461 954		5 238	0	0	0	0	110 438
5 339 254	0	0	0	0	0	13 461 954		597	0	0	0	0	111 035
5 339 254	0	0	0	0	0	13 461 954		1 007	0	0	0	0	112 043
5 339 254	0	0	0	0	0	13 461 954		2 984	0	0	0	0	115 027
5 339 254	0	0	0	0	0	13 461 954		364	0	0	0	0	115 391
5 339 254	0	0	0	0	0	13 461 954		152	0	0	0	0	115 543
	0	0	0	0	0			10536	0	0	0	0	
5 339 254	0	0	0	0	0	13 461 954		21	0	0	0	0	115 563
5 339 254	0	0	0	0	0	13 461 954		0	0	0	0	0	115 563
5 339 254	0	0	0	0	0	13 461 954		0	0	0	0	0	115 563
5 339 254	0	0	0	0	0	13 461 954		2	0	0	0	0	115 566
5 339 254	0	0	0	0	0	13 461 954		92	0	0	0	0	115 657
5 339 254	0	0	0	0	0	13 461 954		79	0	0	0	0	115 736
5 339 254	0	0	0	0	0	13 461 954		5 238	0	0	0	0	120 974
5 339 254	0	0	0	0	0	13 461 954		597	0	0	0	0	121 572
5 339 254	0	0	0	0	0	13 461 954		1 007	0	0	0	0	122 579
5 339 254	0	0	0	0	0	13 461 954		2 984	0	0	0	0	125 563
5 339 254	0	0	0	0	0	13 461 954		364	0	0	0	0	125 927
5 339 254	0	0	0	0	0	13 461 954		152	0	0	0	0	126 079
	0	0	0	0	0			10536	0	0	0	0	
5 339 254	0	0	0	0	0	13 461 954		21	0	0	0	0	126 100
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5 339 254	0	0	0	0	0	13 461 954	_	364	0	0	0	0	136 463
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5 220 254	0			·	·			10536	0		·	0	
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5 339 254 5 339 254	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954	10536 21 0 0 2 92 79 5 238 597	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	157 709 157 709 157 709 157 711 157 803 157 882 163 120 163 717
5 339 254 5 339 254	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	13 461 954 13 461 954	10536 21 0 0 2 92 79 5 238 597 1 007 2 984 364	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	157 709 157 709 157 709 157 711 157 803 157 882 163 120 163 717 164 724 167 708 168 072
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5 339 254 5 339 254	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954	10536 21 0 0 2 92 79 5 238 597 1 007 2 984 364 152 10536	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	157 709 157 709 157 709 157 711 157 803 157 882 163 120 163 717 164 724 167 708 168 072 168 224
5 339 254 5 339 254	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954	10536 21 0 0 2 92 79 5 238 597 1 007 2 984 364 152 10536	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	157 709 157 709 157 709 157 711 157 803 157 882 163 120 163 717 164 724 167 708 168 072 168 224
5 339 254 5 339 254 5 339 254 5 339 254 5 339 254 5 339 254 5 339 254 5 339 254 5 339 254 5 339 254 5 339 254 5 339 254 5 339 254 5 339 254 5 339 254	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954	10536 21 0 0 2 92 79 5 238 597 1 007 2 984 364 152 10536 21 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	157 709 157 709 157 709 157 711 157 803 157 882 163 120 163 717 164 724 167 708 168 072 168 224
5 339 254 5 339 254	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954	10536 21 0 0 2 92 79 5 238 597 1 007 2 984 364 152 10536 21 0	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	157 709 157 709 157 709 157 711 157 803 157 882 163 120 163 717 164 724 167 708 168 072 168 224 168 245 168 245
5 339 254 5 339 254	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954	10536 21 0 0 2 92 79 5 238 597 1 007 2 984 364 152 10536 21 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	157 709 157 709 157 709 157 711 157 803 157 882 163 120 163 717 164 724 167 708 168 072 168 224 168 245 168 245 168 245 168 245
5 339 254 5 339 254 5 339 254 5 339 254 5 339 254 5 339 254 5 339 254 5 339 254 5 339 254 5 339 254 5 339 254 5 339 254 5 339 254 5 339 254 5 339 254 5 339 254 5 339 254 5 339 254 5 339 254 5 339 254	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954	10536 21 0 0 2 92 79 5 238 597 1 007 2 984 364 152 10536 21 0 0 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	157 709 157 709 157 709 157 711 157 803 157 882 163 120 163 717 164 724 167 708 168 072 168 224 168 245 168 245 168 245 168 247 168 339
5 339 254 5 339 254	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954 13 461 954	10536 21 0 0 2 92 79 5 238 597 1 007 2 984 364 152 10536 21 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	157 709 157 709 157 709 157 711 157 803 157 882 163 120 163 717 164 724 167 708 168 072 168 224 168 245 168 245 168 245 168 245

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	0	-		-	0			10536	0	0	-	-	
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	0	0	0	0	0			10536	0	0	0	0	
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	0				-			10536	0				
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	0				-			10536	0			0	
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	0	0	0	0	0		10536	0	0	0	0	

120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139
													T	T		T			
WTS	WTS	Estimated Runoff	Estimated Runoff	Estimated Runoff	Estimated Runoff			Nemo (HMI)	Camp	WTP	WTP	WTD Seepage	WTS	WTS	WRSF Runoff	WRSF Pond	WRSF Pond	WRSF Pond	WT Pit
WT Pit (Reflooding)	IVR Pit (Reflooding)	GSP-1	WT WRSF	WT Attn. Pond	IVR Attn. Pond			Freshwater Usage	WT Attn. Pond	WTS (Temp. + Perm. Diffusers)	MM Lake (East + West Diffusers)	WTS	MM Lake (SWTCH)	MM Lake (Line 140/148)	WRSF Pond	WT Attn. Pond	IVR Attn Pond	WT Pit	WT Attn. Pond
, 6,	,									,	,		, ,	, ,					
0	0	0	0	0	108 710	0	0	0	29 016	1 495 274	1 705 519	0	3 961 159	0	26 488	115 632	0	0	496 137
0	0	10 536		92 558		0	0	_	31 489		1 427 352	0						0	
0	0			92 558		0	0		35 947		872 789	0		0	4 286	0	34 667	0	
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									Water Tr	ansfers									
WT Pit	WT Pit (Phase 1 Ramp)	Sump 6	NWS	Runoff Road 7	Kangislulik Dike Sump	Road 7 Runoff	AP5/GSP1	Mammoth D/S	Q1	WT Attn Pond	WT Attn. Pond	IVR Pit	WT Attn. Pond	IVR Pit	IVR Attn Pond	IVR Attn. Pond	A46	A47	A47
Q1	MM D/S	IV/P Attn Bond	W/T Attn Dond	IVR Attn Pond	NWS	M/T Attn Bond	M/T Attn Bond	M/T Attn Bond	M/T Attn Bond	IVP Attn Bond	AP5/GSP1	M/T Attn Bond	IV/D Di+	IV/P Attn Bond	IVP Di+	WT Attn. Pond	A47	Nemo	WT Attn Bond
QI	IVIIVI D/S	IVR ALLII PONG	WT Attn Pond	IVK ALLII PONG	14462	WT Attn. Pond	WT Attn. Pond	WT Attn. Pond	WT ALLII. POHO	IVK ALLII PONG	AP5/G5P1	WT Attn. Pond	IVR Pit	IVR Attn Pond	IVR Pit	WT ALLII. PONG	A47	Watershed	WT Attn. Pond
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A47	A49	A49	WT Pit	A51	A50	A53	IWA	IWB	IWC	IWD	UG Portal	AP5 / GSP1	AP5 / GSP1	D/S	WT Pit
IVR Attn Pond	A47	WT Attn. Pond	IVR Attn Pond	A53	A53	WTS (via WTP)	IVR Attn Pond	IVR Attn Pond	IVR Attn Pond	IVR Attn Pond	AP5 / GSP1	UG (for Brine)	GSP2	IVR Attn. Pond	IVR west
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58 689								13 618	5 570	4 142	0	0		4 840	
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WT Pit	A49	IVR Pit	IVR-2 Pit	Water Transfers	Inflow volume	Discharge location: Enter for destination		Volume pumped to	WTD Seepage
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		0	0		1 079 896			0	
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					49384	0	1	0	_
					80899	0	1	0	_
					46257	0	1	0	_
					193834	0	1	0	_
					79653	0	1	0	_
					76025	0	1	0	_
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APPENDIX D • 2023 WHALE TAIL WATER QUALITY FORECAST UPDATE

Title of document: WATER QUALITY FORECAST UPDATE BASED ON 2023 WMP FOR WHALE TAIL

MINE

Client: AGNICO EAGLE MINES

Project: 2023 ANNUAL REPORT FOR WHALE TAIL MINE WATER BALANCE AND WATER

QUALITY FORECAST

Prepared by (under ICS¹):

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Revised by: Anh-Long Nguyen, Eng., M.Sc.

#OIQ: 122858, #NAPEG: L2716

Approved by: Anh-Long Nguyen, Eng., M.Sc.

#OIQ: 122858, #NAPEG: L2716

¹ ICS: Immediate control and supervision.

In terms of supervising the engineering activities and supervision of people who are not engineers or CPI, the Ordre des ingénieurs du Québec uses a term often used in its regulation: Immediate control and supervision (ICS). In other words, an engineer must be involved in a continuous and active manner throughout the reserved tasks entrusted to him, and not just before or after.

AtkinsRéalis TECHNICAL NOTE Water Quality Foreca

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The findings, conclusions and recommendations in this report (i) have been developed in a manner consistent with the level of skill normally exercised by professionals currently practicing under similar conditions in the area, and (ii) reflect AtkinsRéalis' best judgment based on information available at the time of preparation of this report. No other warranties, either expressed or implied, are made with respect to the professional services provided to Agnico Eagle Mines or the findings, conclusions and recommendations contained in this report. The findings and conclusions contained in this report are valid only as of the date of this report and may be based, in part, upon information provided by others. If any of the information is inaccurate, new information is discovered or project parameters change, modifications to this report may be necessary.

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Water Quality Forecast Update Based on 2023 WMP for Whale Tail Mine

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List of Revisions

#	Prep.	Rev.	App.	Date	Pages	Remarks
PA	IE	ALN	ALN	Mar. 1, 2024	All	Issue for internal comments
РВ	IE	ALN	ALN	Mar. 7, 2024	All	Issue for client's comments
00	IE	ALN	ALN	Mar. 21, 2024	All	Final
00	IE	ALN	ALN	Mar. 21, 2024	All	Final



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1. Introduction

1.1 Context

Agnico Eagle Mines (AEM) is operating the Meadowbank Mine site and its satellite deposit Whale Tail Mine. Presently, all contact water from the Whale Tail site is pumped or directed toward the Whale Tail (WT) and IVR Attenuation Ponds. From there, it is treated at the Water Treatment Plant (WTP) and discharged to either Whale Tail South (WTS) Lake or Kangislulik Lake. At Closure, the IVR Attenuation Pond will be backfilled and the WT Attenuation Pond and the WT and IVR pits will be allowed to refill through active transfer of water from WTS Lake, natural runoff, and natural contact water.

1.2 Mandate

AtkinsRéalis was mandated by Agnico Eagle (Agnico) to review the water balance and update the water quality forecasting model yearly during Operation, Closure, and Post-Closure.

AtkinsRéalis was mandated to:

- Review water quality data measured in 2023 and compile data with previous field measurements to update the water quality forecast model.
- Review the AEM 2023 Water Balance (WB) developed for the 2023 Water Management Plan (WMP) for the Whale Tail Mine.
- Forecast of the water quality in terms of the concentration of selected parameters of concern (defined in previous studies as passing the discharge criteria outlined in the water license 2A M-WTP1830) within WT and IVR Attenuation Ponds and WTS and Kangislulik Lakes during Operation, Closure and Post-Closure based on the AEM 2023 WB.
- Produce a technical note for the Whale Tail Water Quality Forecast Update based on the 2023 WMP for the Whale Tail Mine.

Review of Water Balance and Water Quality Data

2.1 Documents Reviewed

A review of the AEM 2023 Water Balance (WB) and the available water quality data measured in 2023 was undertaken by AtkinsRéalis and compiled with previous data measured since 2020. This includes a review of the following documents:

- The 2023 Water Balance model provided by AEM;
- Water quality data results provided by AEM.

A compilation of the measured water quality data sampled at the Whale Tail Mine site in 2023 was performed by AtkinsRéalis for the following sectors:

- WT Attenuation Pond (sampling point ST-WT-1);
- IVR Attenuation Pond (sampling point ST-WT-23);
- IVR Pit-Sump (sampling point ST-WT-18);
- Kangislulik Lake (sampling points MAME-2, EEM-7);
- Whale Tail Dike Seepage (sampling point ST-WT-17);
- WRSF Pond (sampling point ST-WT-3);
- Whale Tail Pit Sump (sampling point ST-WT-4);
- WTS Lake (sampling point WTSE, WTSE-1);
- GSP-1 (ST-WT-20);
- Water from the underground mine.

The measured water quality of 2023 was added to measured data conducted at the WT site between 2020 and 2022 and used as a database for the updated Water Quality Forecast (WQF) model. The following reference documents were consulted:

- WB-WQF original model developed by AtkinsRéalis (AtkinsRéalis 2021);
- WB for Operation for 2023 (AEM, 2024);

Some previous analysis reports have been consulted mainly:

Whale Tail Modification: Water Balance and Water Quality Model-Technical Report (Lorax, 2023)

It is important to remember that the review of the Whale Tail water quality data was undertaken to provide a basis for the development and update of the water quality forecast mass balance model.

2.2 Water Balance

2.2.1 Water Management Phases

The Water Balance 2023 (WB 2023) was developed by AEM (AEM 2024) and is based on the current and future water management plan (WMP). The water balance examined the water transfers required for the water management infrastructure during the active Life of Mine (LOM), the Closure and Post-Closure under average hydrologic conditions.

The WB is updated on a yearly basis based on actual water transfers conducted on site, field survey of the different pond levels and on updates to the LOM and the planned Closure and Post-Closure phases.

The WB 2023 integrates the planned streams of water within the Whale Tail Mine site including all inflows and outflows to and from the IVR Attenuation Pond, WT Attenuation Pond, Kangislulik Lake and WTS Lake.

The WB 2023 was based on the revised mining schedule presented in Table 2-1 below for the Whale Tail Mine.

Table 2-1: Water Management Phases (based on Whale Tail Mine 2023 Waste Management Plan)

ACTIVITY	START DATE1	END DATE ¹
Pits Mining		
Whale Tail Pit	July 2019	December 2025
IVR Pit	July 2021	December 2025
Rock Storage Facility (RSF) Operations		
Whale Tail RSF	July 2019	December 2025
IVR RSF	July 2021	December 2025
Attenuation / Reclaim Pond Water Management		
Whale Tail Attenuation Pond	July 2019	December 2025
IVR Attenuation Pond	May 2021	December 2025
Other Key Activities		
Dewatering of Whale Tail North Basin (future WT Pit and WT Attenuation Pond	March 2019	June 2020
Dewatering of Lake A53 (future IVR Attenuation Pond)	June 2020	September 2020



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ACTIVITY	START DATE ¹	END DATE ¹
Closure Period	January 2026	December 2044
Active Flooding of Whale Tail Pit and IVR Pit	July 2026	October 2042
Breaching of dikes ²	January 2045	January 2045 only if water criteria are met
Post-Closure Period ^{3,4}	January 2045	December 2049

Notes:

- 1. Periods are given from the beginning of the starting month to the end of the ending month.
- 2. Tentative dates. Schedule dependent on monitoring results for water quality
- 3. A five year long Post-Closure period was selected for modelling purposes, taking a conservative approach.
- 4. It is noted that the Post-Closure period begins when the dikes are breached. Dike breach can only take place once upstream and downstream of the dikes reaches the same elevation. Dike breach can only take place once water quality in all three water bodies meets water quality criteria as per the Water License criteria. The Closure schedule for the overall Project is based on the preliminary Closure methods and strategies discussed in the Whale Tail ICRP (2020). It is anticipated that the schedule will be refined throughout the project life as the designs are advanced, and the Closure methods and strategies are further developed.

2.2.2 Treated Water Volumes

During Operation, all contact water on the Whale Tail Mine site is collected and transferred to the WT and IVR Attenuation Ponds. It is then treated at the Water Treatment Plant (WTP) and discharged to WTS or Kangislulik Lakes. **Table 2-2** provides a summary of the treated volumes of water from 2020 to 2023.

Table 2-2: Summary of Treated Volume from 2020 to 2023

Year	Treated Water to Kangislulik Lake (m³/ year)	Treated Water to WTS (m³/ year)	Total Volume of Treated Water (m³/ year)
2020	1 705 519	1 495 274	3 200 793
2021	1 427 352	1 261 391	2 688 743
2022	872 789	1 115 284	1 988 076
2023	1 144 316	820 688	1 965 004

2.2.3 Pit Re-Flooding

At Closure, the WT and IVR pits shall be re-flooded by active transfer of water from the WTS Lake, by natural runoff flowing from the Whale Tail Mine site to the pits and by natural contact water. Once the IVR Pit is flooded, it overflows toward WT Pit. Once WT Pit is flooded, it overflows into WT Attenuation Pond and forms the Whale Tail North (WTN) Basin. Regarding IVR pit, it is divided into two sections: section 1 of IVR pit will be backfilled with NPAG rockfill in operations and at Closure (phase 1) while section 2 will be reflooded (phase 2).

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Water Quality Forecast Update Based on 2023 WMP for Whale Tail Mine

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Table 2-3 provides a summary of the volumes of water that is planned to be transferred from WTS Lake to the pits for active reflooding.

Based on AEM WB 2023, it is forecasted that the IVR Pit will be flooded by 2027 while the WT Pit / WTN Basin will reach a water elevation of approximately 153.5 m by the end of 2044.

Figure 2-1 provides the forecasted water elevation in WT and IVR pits at Closure and Post-Closure.

Table 2-3: Forecasted Pit Re-Flooding Volumes

Year	Pit Reflooding Volume from WTS Lake to IVR and WT Pits	Year	Pit Reflooding Volume from WTS Lake to IVR and WT Pits
	(m³/ year)		(m³/ year)
2026	5 580 000	2036	2 887 260
2027	2 887 260	2037	2 887 260
2028	2 887 260	2038	2 887 260
2029	2 887 260	2039	2 887 260
2030	2 887 260	2040	2 887 260
2031	2 887 260	2041	2 887 260
2032	2 887 260	2042	2 887 260
2033	2 887 260	2043	0
2034	2 887 260	2044	0
2035	2 887 260	TOTAL	51 776 160



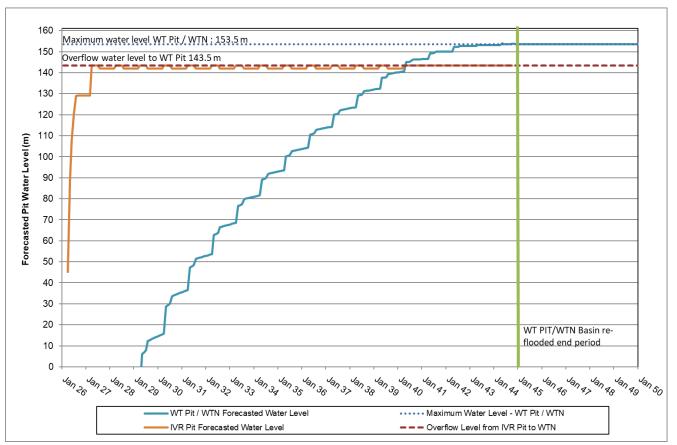


Figure 2-1: Forecasted Water Elevation in WT Pit / WTN Basin and IVR Pit

2.3 Site Water Quality

In 2023, contact water collected from the Whale Tail Mine site, including the WT and IVR Waste Rock Storage Facilities (WRSF) and the WT and IVR pits, were transferred to the WT and IVR Attenuation Ponds and treated at the WTP.

Table 2-4 summarizes the quality of water sampled at the Attenuation Ponds (WT Attenuation Pond and IVR Attenuation Pond) and the treated water discharged at either Kangislulik Lake or WTS Lake. The average and maximum total concentrations for key constituents that have a specific discharge criterion in the Water License 2AM-WTP1830, or a specific CCME (Canadian Council of Ministers of the Environment) guideline are also presented in the table. It is important to note that the CCME guidelines are not discharged criteria but rather receiving environment guidelines only.

For measured values that were below the detection limit, a value equal to half of the detection limit was considered in the analysis. Values bolded and underlined and highlighted in grey indicated values above the Water Licence criteria. Cells highlighted in green indicate values higher than the CCME guidelines for Protection of Aquatic Life, which are used for comparison purpose only.

Per the data presented in **Table 2-4**, the following constituents measured in WT and IVR Attenuation Ponds were above the Water Licence monthly average discharge criteria:

- Total Suspended Solids (TSS);
- Total Phosphorous, only maximum value for WT Pond;
- Total Aluminum (Al);
- Total Arsenic (As), only maximum values;
- Total Chromium (Cr), only maximum values;
- Total Iron (Fe);
- Dissolved Arsenic (As), only maximum values.

When comparing the measured values in both Kangislulik Lake and WTS Lake to the Water Licence and CCME guidelines, only total Chromium presents a concentration above CCME guidelines in WTS lake.

2.4 Treated Water Quality

The treated effluent discharge to the WTS and Kangislulik Lakes met consistently the Water Licence discharge criteria (**Table 2-4**).

When comparing the measured values sampled in the treated effluent to the CCME guidelines for comparison purpose only, all of the constituents were on average below CCME guidelines, with the exception of the following: Nitrate and Total Chromium which is at the same concentration as the CCME limit. There were some samples with a maximum measured concentration that was above the CCME guidelines, specifically in the treated effluent to Kangislulik Lake (Nitrate, Chromium, Copper and Iron) and in the treated effluent to WTS Lake (Nitrate, Chromium and Iron).

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Table 2-4: Yearly Average and Maximum Concentrations Measured at Whale Tail Mine for 2023

			License VTP1830		Po	Attenuation ond WT-1)		ration Pond VT-23)	Kangislı (ST-WT-2/-2A	Effluent to ulik Lake A, ST-MDMER- B)		uent to WTSL T-MDMER-11)	Kangislulik L	ake (MAME-2)		l South Lake TSE)
Parameters	Units	Monthly Average	Max. Allow. Conc.	CCME Guidelines	Yearly Avg.	Max. Value	Yearly Avg.	Max. Value	Yearly Avg.	Max. Value	Yearly Avg.	Max. Value	Yearly Avg.	Max. Value	Yearly Avg.	Max. Value
Alkalinity	mg CaCO3/L	n/a	n/a	n/a	48	68	52	81	36	43	49	69	20	23	22	27
Hardness	mg CaCO3/L	n/a	n/a	n/a	126	315	147	246	141	215	138	223	58	76	50	59
pH		6.0 to 9.5	6.0 to 9.5	6.0 to 9.5	7.64	8.71	7.45	7.96	7.36	8.16	7.14	7.97	7.38	7.91	7.33	8.02
Temperature	deg. C	n/a	n/a	n/a	4.07	15.20	5.09	17.20	8.30	17.20	0.65	6.30	8.11	16.70	4.39	16.60
Total Ammonia (NH3 + NH4)	mg N/L	<u>16</u>	<u>32</u>	12.6	1.02	3.90	1.34	4.20	0.75	2.20	1.99	4.20	0.12	0.19	0.13	0.17
Un-ionized ammonia (as N)	mg N/L	n/a	n/a	0.019	0.008	0.038	0.003	0.016	0.003	0.008	0.002	0.011	0.001	0.001	0.000	0.001
Nitrate (NO3)	mg N/L	n/a	n/a	2.93	1.68	7.83	3.30	6.01	2.69	5.86	3.51	6.23	0.70	1.09	0.50	0.72
Chloride	mg/L	n/a	n/a	120	41	110	52	94	56	110	44	87	19	27	16	18
Fluoride	mg/L	n/a	n/a	0.12	0.13	0.17	0.13	0.18	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Sulphate	mg/L	n/a	n/a	128	44	160	49	110	56	100	55	92	23	31	17	19
TSS	mg/L	<u>15</u>	<u>30</u>	n/a	<u>94</u>	920	10	<u>46</u>	1	2	1	2	1	1	1	1
TDS	mg/L	1400	<u>1400</u>	n/a	239	610	266	450	313	445	230	410	n/a	n/a	n/a	n/a
Total Phosphorus (P)	mg/L	0.3	<u>0.6</u>	0.01	0.08	<u>0.61</u>	0.01	0.04	0.0002	0.005	0.002	0.005	0.0015	0.0040	0.0022	0.0037
Total Aluminum (Al)	mg/L	<u>0.5</u>	1	0.035	<u>1.085</u>	<u>7.010</u>	0.202	<u>0.855</u>	0.008	0.011	0.010	0.026	0.006	0.008	0.006	0.009
Total Arsenic (As)	mg/L	<u>0.1</u>	0.2	0.025	0.088	0.488	0.047	0.160	0.006	0.024	0.003	0.009	0.001	0.003	0.001	0.001
Total Barium (Ba)	mg/L	n/a	n/a	n/a	0.06	0.11	0.06	0.09	0.05	0.07	0.06	0.08	n/a	n/a	n/a	n/a
Total Cadmium (Cd)	mg/L	0.002	0.004	0.00011	0.00003	0.00009	0.00002	0.00004	0.00001	0.00002	0.00001	0.00002	0.00001	0.00001	0.00001	0.00001
Total Calcium (Ca)	mg/L	n/a	n/a	n/a	n/a	n/a	n/a	n/a	43	65	41	66	n/a	n/a	n/a	n/a
Total Chromium (Cr)	mg/L	0.02	0.04	0.001	0.012	0.050	0.005	0.029	0.001	0.001	0.001	0.001	0.0001	0.0002	0.004	0.013
Total Copper (Cu)	mg/L	<u>0.1</u>	<u>0.2</u>	0.002	0.003	0.016	0.002	0.008	0.001	0.004	0.001	0.002	0.0005	0.0005	0.001	0.001
Total Iron (Fe)	mg/L	1	<u>2</u>	0.3	<u>2.8</u>	<u>16.7</u>	0.7	2.2	0.3	0.4	0.3	0.4	0.03	0.04	0.03	0.04
Total Lead (Pb)	mg/L	0.05	<u>0.1</u>	0.0017	0.0017	0.0075	0.0009	0.0095	0.0002	0.0002	0.0002	0.0002	0.00003	0.00008	0.00003	0.00006
Total Magnesium (Mg)	mg/L	<u>n/a</u>	<u>n/a</u>	n/a	8	24	9	16	8	15	8	14	n/a	n/a	n/a	n/a
Total Manganese (Mn)	mg/L	n/a	<u>n/a</u>	0.49	0.29	0.80	0.21	0.38	0.18	0.26	0.29	0.40	n/a	n/a	0.01	0.01
Total Mercury (Hg)	mg/L	0.004	0.008	0.000026	0.000016	0.000100	0.000010	0.000010	0.000010	0.000010	0.000010	0.000010	0.000010	0.000010	0.000010	0.000010
Total Molybdenum (Mo)	mg/L	<u>n/a</u>	<u>n/a</u>	0.073	0.013	0.023	0.017	0.049	0.008	0.011	0.017	0.041	0.002	0.002	0.005	0.014
Total Nickel (Ni)	mg/L	0.25	0.5	0.066	0.019	0.076	0.015	0.047	0.012	0.026	0.011	0.019	0.003	0.004	0.021	0.059
Total Selenium (Se)	mg/L	<u>n/a</u>	<u></u> <u>n/a</u>	0.001	0.0002	0.0008	0.0002	0.0004	0.0002	0.0004	0.0001	0.0003	0.0001	0.0001	0.0001	0.0001
Total Silver (Ag)	mg/L	<u>n/a</u>	<u>n/a</u>	0.00025	0.00003	0.00006	0.00002	0.00002	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total Thallium (TI)	mg/L	<u>n/a</u>	<u>n/a</u>	0.0008	0.0003	0.00012	0.00002	0.00005	0.00002	0.00003	0.00001	0.00003	0.000003	0.000004	0.000003	0.000003
Total Zinc (Zn)	mg/L	0.1	0.2	0.028	0.009	0.042	0.010	0.099	0.007	0.010	0.004	0.011	0.001	0.001	0.001	0.003
Dissolved Arsenic (As)	mg/L	0.1	0.2	0.025	0.071	0.504	0.036	0.185	0.002	0.004	0.001	0.004	0.001	0.002	0.001	0.002
Dissolved Phosphorus (P)	mg/L	0.3	<u>0.6</u>	0.01	0.010	0.095	0.005	0.040	0.001	0.004	0.002	0.008	0.002	0.007	0.002	0.006

xxxx	Exceeds Water Licence monthly average criterion only
	Exceeds CCME guidelines only

3. Water Quality Forecast Model

3.1 Description

The water quality forecast (WQF) model is based on a water/mass balance developed for the site to track the water movements during Operation. The model was developed based on AEM 2023 Water Balance (AEM, 2024) developed for the 2023 Water Management Plan (WMP).

The WQF model uses the inflows and outflows to each basin and pond as presented in the water balance provided by AEM and uses the water quality measurements taken around the Whale Tail Mine site to forecast concentrations of key constituents of concern (COCs). The WQF assesses the forecasted concentrations of key COCs in the following ponds and basins:

- WT and IVR Attenuation Ponds;
- WT Pit / WTN Basin;
- IVR Pit;
- Kangislulik Lake;
- WTS Lake.

During Operation, the primary concern is the water quality around the WT and IVR Attenuation Ponds as it represents the environmental discharge to Kangislulik and WTS Lakes and impacts the receiving environmental assimilative capacities. At Closure and Post-Closure, the primary concern is the water quality around the flooded pits as it represents the water that shall reconnect to Kangislulik Lake and Whale Tail Lake (South Bassin) at Post-Closure, specifically WT Pit which shall become the WTN Basin. For this reason, the WQF model for the pits are included only in Closure and Post-Closure.

The WQF water/mass balance model was developed using the methodology and assumptions described in the section below (Section 3.2).

3.2 Methodology and Assumptions

Table 3-1 summarizes the methodology and assumptions used in the development of the water quality forecast (WQF) model for the Whale Tail Mine site.



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Table 3-1: Water Quality Forecast Model Methodology and Assumptions

PARAMETERS	METHODOLOGY AND ASSUMPTIONS
Water quality forecast model	Mass balance model;Assume completely mixed system;
	 Ponds/Lakes to model: WT and IVR Attenuation ponds, WT Pit/WTN Basin, IVR Pit, Kangislulik Lake, WTS Lake;
	 WQF model results represent total constituent concentrations;
	 Input streams for water quality are based on a yearly average measured value;
	 For simplification of the model, ponds are assumed to be completely mixed systems;
	 For simplification of the model, the parameters are assumed to be inert: they do not degrade or react with other elements in the system;
	 During Operation, the water/mass balance is performed around the WT and IVR Attenuation Ponds. The volume of water transferred out of these ponds are sent to the WTP for treatment prior to discharge to WTS Lake or Kangislulik Lake;
	 At Closure and Post-Closure, the focus of the model shifts to the WT Pit which shall become the WT North Basin which then reconnects to Kangislulik Lake and WTS Lake at Post-Closure;
	 A treatment removal efficiency for each of the parameters of concern is considered based on the observed treatment efficiency of the WTP.
Model time period	Start: January 2020;
	 End: December 2049 (projected end date of Post-Closure period for the model); Time step: Monthly.
Forecasted Constituents	 In the Final Environmental Impact Statement (FEIS), key COCs identified: Arsenic and Phosphorus;
	The following key COCs forecasted were identified in last year's annual report (SNC, 2023) and shall be considered in this year's model:
	o Anions: Chloride, Fluoride;
	o Metals: Arsenic, Chromium, Copper, Iron;
	 Others: Total Ammonia, Nitrate, Total Phosphorus.
Input Source Terms	 Water quality for the different input streams to the model is based on the yearly average measured values and are assumed to be constant over a given year;
	The following source terms are considered in the model. The water quality for key COCs are based on measured water quality data:
	o WT WRSF;
	 North-West (NW) sump (assumed similar to WT WRSF);
	o Whale Tail Pit ;
	o Quarry 1;



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- Runoff from Road 7 (assumed similar to Quarry 1);
- o WT Dike Seepage;
- IVR Pit;
- o IVR WRSF sump IWA and IWB (assumed similar to WT WRSF);
- Whale Tail Camp Sewage Treatment Plant treated effluent;
- North East Pond (assumed similar to WT WRSF);
- Former Lakes A47 and A49 (assumed like Lake A47);
- Lakes A50, A51, A52 and A53 (assumed to be similar to average of lakes A50, A51, A52);
- Kangislulik Lake (KL);
- o Whale Tail South Lake (WTS Lake).
- Precipitation runoff loading:
 - For runoff from the mine site, assumed to have a similar water quality as the water sampled at Lake A47;
 - For runoff from WRSF, assumed to have a similar water quality as the water sampled at WT WRSF:
 - For natural runoff to WTS and Kangislulik Lake, assume to have a similar water quality as the water sampled at WTS Lake.

Input Source Terms Adjustment during Operation

• The water quality associated with the Whale Tail Pit source term was adjusted to obtain forecasted concentration for the COCs like the measured values sampled at the WT and IVR Attenuation Ponds.

Input Source Terms from Exposed Pit Walls

- To account for potential leaching of COCs from the pit walls during reflooding, the following is assumed:
 - During pit re-flooding, the runoff water entering the pit is assumed to have the same water quality as the average values measured in the pits between 2021-2023 in Whale Tail Pit and 2022 to 2023 in IVR Pit. Contaminated source term loading from the Whale Tail and IVR Pit wall exposure is assumed active until complete flooding of pit walls;
 - Per the Interim Closure and Reclamation Plan (ICRP, 2020), the exposed pit walls in IVR Pit phase 2 that are prone to leach arsenic shall be sloped back and covered with overburden and rip rap. Note that the feasibility of sloping back and covering the exposed pit walls prone to arsenic leaching will be evaluated and updated in the final Closure plan;
 - For IVR Pit phase 2, once the water level reaches the pit crest (set at 143.5 m), all of the pit walls shall be submerged, and it is assumed that the Closure work on exposed pit walls prone to arsenic leaching shall be completed. At that time, the water quality from the runoff is assumed to be similar to natural runoff from the site;
 - For the Whale Tail Pit, once the water level reaches above the pit crest (set at 146.0 m), all of the pit walls shall be submerged, and it is assumed at that time that the water quality from the runoff is assumed to be similar to natural runoff from the site.



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Water treatment

- Water treatment is required during Operation (2020 to 2025);
- Water quality in ST-WT-2/2A (discharged to WTS Lake) and ST-WT-24 (discharged to KL) represent the quality of the treated effluent in-situ;
- A treatment removal efficiency for each of the parameters of concern is considered based on the observed average treatment efficiency of the WTP between 2021 and 2023. The treatment efficiencies are also adjusted as needed to match measured values in WTS Lake and KL;
- At Closure, no water treatment is forecasted to be required,

Pit reflooding

 Pits shall be reflooded by natural runoff and contact water from the site and active transfer of water from WTS Lake.

3.3 Limitations

The limitations of the Whale Tail Mine site water quality forecast water/mass balance model and ensuing results and conclusions presented in this Technical Note are listed below:

- 1. To simplify the model, the mass balance model assumes that the ponds, pits and lakes are completely mixed systems. Consequently, the results from this model provide an indication of the concentrations in these areas and should not be considered as an absolute value at this time. Future monitoring results both for flows and water quality will provide for a better indication of concentrations of contaminants.
- 2. The mass balance model is based on the water quality analysis results provided by AEM.
- 3. The model is based on a monthly time-step and the resulting concentrations provided represent monthly values.
- 4. It should be noted at this point that the model should be used to evaluate at a high level the impact of Operation and Closure activities at the Whale Tail Mine site on the future water quality in the WT Pit / WTN Basin, the IVR Pit, Kangislulik Lake and WTS Lake. The forecasted concentration should be considered as an order of magnitude estimate only considering that the model uses monthly volumes that are transferred around the site and assumes a fixed water quality concentration for each input stream over time.
- 5. The present mass balance model cannot simulate the treated effluent plume discharged in Kangislulik Lake or Whale Tail South Lake. A hydrodynamic model is required to simulate the discharge of treated effluent in these lakes, which is beyond the scope of this study.
- 6. It should be noted at this point that the model provides an estimate of the re-flooding period of the pits based on the active volume of water transferred from WTS Lake and assuming a net average precipitation received on the site during Closure. This period shall vary based on the actual runoff received on site and the volume transferred shall be adjusted accordingly to meet the Closure schedule.
- 7. Furthermore, this model is intended as a mass balance model for the Whale Tail Mine site and should be updated and calibrated on a yearly basis as additional water quality data, pond volumes and flows in the area become available. Refer to **Section 5.2** for recommendations on improving the WQF model.

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3.4 Input Parameters

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A compilation of the measured water quality data sampled at the Whale Tail Mine site in 2023 was performed for the following sectors:

- WT Attenuation Pond (sampling point ST-WT-1);
- IVR Attenuation Pond (sampling point ST-WT-23);
- Whale Tail Pit Sump (sampling point ST-WT-4);
- IVR Pit-Sump (sampling point ST-WT-18);
- Whale Tail Dike Seepage (sampling point ST-WT-17);
- WRSF Pond (sampling point ST-WT-3);
- Kangislulik Lake (sampling point MAME-2);
- WTS Lake (sampling point WTSE);
- Whale Tail Camp STP Effluent (ST-WT-11);
- GSP-1 (ST-WT-20).

The measured water quality of 2023 was added to measured data conducted at the Whale Tail Mine site between 2019 and 2022 and used as a database to implement the water quality forecast model.

Table 3-2 summarizes the water quality characteristics for various input source streams used in the water quality forecast model.

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Table 3-2: Input Source Stream Concentrations used in the Water Quality Forecast Model

Input Streams	Notes	Units	NH3-NH4	NO3	CL	F	Total P	Total Al	Total As	Total Cd	Total Cr	Total Cu	Total Fe	Total Pb	Total Mn	Total Hg	Total Ni	Total Se	Total Zn
WT WRSF	Average 2018-2023	mg/L	0.1	2.8	8	0.095	0.019	0.484	0.007	0.000	0.006	0.003	1.359	0.001	0.160930	0.000	0.017	0.001	0.005
NW Sump	Assume same as WT WRSF	mg/L	0.1	2.8	8	0.095	0.019	0.484	0.007	0.00002	0.0055	0.003	1.359	0.00051	0.161	0.000013	0.017	0.0013	0.005
Whale Tail Pit	Average 2021-2023	mg/L	2.5	2.7	53	0.216	0.043	2.872	0.346	0.00004	0.0909	0.006	5.441	0.00424	0.345	0.000009	0.091	0.0005	0.012
Whale Tail Pit - Adjusted	Adjusted to obtain WQF similar to measured values in Attenuation Ponds	mg/L	17.4	26.9	107.0	0.4	0.043	14.4	1.4	0.00033	0.1	0.018	10.9	0.02122	1.724	0.000009	0.228	0.0018	0.1
Quarry 1	Average from 2019 to 2020, Ca, Cl and TDS assume same as Whale Tail Pit	mg/L	0.9	0.0	53	0.000	0.010	0.052	0.010	0.00002	0.0012	0.007	0.130	0.00031		0.000010	0.016		
Runoff Road 7	Same as Quarry 1	mg/L	0.9	0.0	53	0.000	0.010	0.052	0.010	0.00002	0.0012	0.007	0.130	0.00031	0.000	0.000010	0.016	0.000	0.000
WT Dike Seepage	Average from 2019 to 2023	mg/L	0.047	0.3	15	0.101	0.016	0.226	0.009	0.00002	0.0042	0.005	0.486	0.00033	0.085	0.000009	0.002	0.0004	0.004
IVR Pit	Average from 2021- 2023	mg/L	7.4	11.4	135	0.174	0.263	2.551	2.913	0.00005	0.1494	0.004	4.134	0.00143	0.134	0.000010	0.181	0.0018	0.029
IVR WRSF IWB	Assume same as WT WRSF	mg/L	0.1	2.8	8	0.095	0.019	0.484	0.007	0.00002	0.0055	0.003	1.359	0.00051	0.161	0.000013	0.017	0.0013	0.005
IVR WRSF IWA	Assume same as WT WRSF	mg/L	0.1	2.8	8	0.095	0.019	0.484	0.007	0.00002	0.0055	0.003	1.359	0.00051	0.161	0.000013	0.017	0.0013	0.005
Whale Tail Camp STP Effluent	Average 2023	mg/L	0.1	6.9	36	0.056	1.487	0.021	0.007	0.00001	0.0005	0.003	0.021	0.00036	0.015	0.000003	0.007	0.0001	0.046
NE Pond	Assume same as Lake A47	mg/L	0.2	0.0	104	0.060	0.010	0.164	800.0	0.00004	0.0036	0.001	0.740	0.00027	0.365	0.000010	0.008	0.0008	0.004
Lake A47	Average 2020, assume TP and TAs equal to dissolved measurements	mg/L	0.2	0.0	104	0.060	0.010	0.164	0.008	0.00004	0.0036	0.001	0.740	0.00027	0.365	0.000010	0.008	0.0008	0.004
Lake A49	Assume same as A47	mg/L	0.2	0.0	104	0.060	0.010	0.164	0.008	0.00004	0.0036	0.001	0.740	0.00027	0.365	0.000010	0.008	0.0008	0.004
Lake A50	Average from sample taken in	mg/L	0.1	0.0	346	0.060	0.010	0.045	0.0005	0.00022	0.0008	0.0005	0.193	0.00030	1.067	0.000010	0.029	0.0006	0.017
Lake A51	August 2019 for	mg/L	0.1	0.0	346	0.060	0.010	0.045	0.0005	0.00022	0.0008	0.0005	0.193	0.00030	1.067	0.000010	0.029	0.0006	0.017
Lake A52	lakes A50, A51 and A52	mg/L	0.1	0.0	346	0.060	0.010	0.045	0.0005	0.00022	0.0008	0.0005	0.193	0.00030	1.067	0.000010	0.029	0.0006	0.017
Lake A53	Average from 2019 to 2020 data	mg/L	0.1	0.0	346.0	0.060	0.0	0.006	0.001	0.0	0.0	0.011	0.2	0.00030	1.1	0.0	0.004	0.0	0.003
Kangislulik D/S	Average 2020-2023	mg/L	0.07	1.33	25	0.057	0.004	0.006	0.001	0.00001	0.0004	0.001	0.030	0.00006	0.017	0.000005	0.002	0.0002	0.003
Underground	Average 2021		n/a		898			0.137	0.035		0.0041		0.219						
Runoff (natural terrain)	Assumed to be similar to natural lake A47 quality	mg/L	0.2	0.0	104.1	0.1	0.0	0.164	0.0	0.0	0.0	0.0	0.7	0.0	0.4	0.0	0.0	0.0	0.0
Runoff (rock area)	Assume same as WT WRSF	mg/L	0.1	2.8	8	0.095	0.019	0.484	0.007	0.00002	0.0055	0.003	1.359	0.00051	0.161	0.000013	0.017	0.0013	0.005
Initial Concentration at WT Attenuation Pond	Average 2020 May data	mg/L	2.3	4.1	84	0.14	0.015	0.128	0.02	0.00001	0.0037	0.004	0.63	0.00040	0.23	0.000005	0.01	0.0005	0.00
Initial Concentration at Lake A53 (future IVR Attenuation Pond)	Average from 2019 to 2020 data	mg/L	0.1	0.01	346.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	1.1	0.0	0.0	0.0	0.0
Initial Concentration at WTS Lake	January 2020. When no data available, take average of 2020 data.	mg/L	0.1	0.1	17	0	0.020	0.010	0.001	0.00001	0.0003	0.000	0.120	0.00015	0.069	0.000005	0.002	0.0005	0.002

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AtkinsRéalis TECHNICAL NOTE

Water Quality Forecast Update Based on 2023 WMP for Whale Tail Mine

Document No: Rev. Date:

699134-4000-40ER-0001 00 March 21, 2024

Input Streams	Notes	Units	NH3-NH4	NO3	CL	F	Total P	Total Al	Total As	Total Cd	Total Cr	Total Cu	Total Fe	Total Pb	Total Mn	Total Hg	Total Ni	Total Se	Total Zn
Initial Concentration at Kangislulik Lake	April 2020 data. When no data available, take average of 2020 data.	mg/L	0.2	3.1	45	0.057	0.005	0.003	0.002	0.00001	0.0017	0.001	0.020	0.00015	0.072	0.000005	0.003	0.0005	0.001
Natural runoff to Lakes	Assume to be similar to WTSL water.	mg/L	0.9	1.5	26	0.0	0.005	0.009	0.0011	0.00001	0.0010	0.001	0.2	0.00012	0.1	0.000008	0.0077	0.0002	0.0007
WTSL	Average 2022-2023	mg/L	0.9	1.5	26	0.000	0.005	0.009	0.001	0.00001	0.00097	0.00087	0.18632	0.00012	0.12876	0.00001	0.008	0.000	0.001
IVR attenuation Pond	Average 2021-2023	mg/L	0.9	3.0	47	0.129	0.026	0.434	0.137	0.00002	0.00720	0.00222	1.10078	0.00093	0.22823	0.00001	0.030	0.000	0.008
GSP1	Average 2022-2023	mg/L	26.2	77.6	2483	0.098		0.065	0.007	0.00165	0.00873	0.00407	0.13109	0.00163	3.32674	0.00001	0.147	0.001	0.041
WTP Percent Removal Efficiency	Average % removal from 2021 to 2023 measured at WTP (raw water vs treated water).	%	0%	0%	0%	0%	99%**	97%	95%**	39%	99%**	99%**	99%**	84%	13%	0%	52%**	90%**	90%**

Note:

^{**} indicate value adjusted to match measured values in the WTS Lake and KL



TECHNICAL NOTE

Water Quality Forecast Update Based on 2023 WMP for Whale Tail Mine

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3.5 Guidelines

The forecasted concentrations are compared in this Technical Note to the discharge criteria outlined in the Water Licence and to the CCME guidelines. These guidelines are used as a guide only to identify potential COCs during Operation, Closure and Post-Closure. **Table 3-2** summarizes the guidelines used in the model.

Table 3-2: Discharge Criteria and CCME Guidelines for the Constituents Evaluated

PARAMETER	DISCHARGE CRITERIA & V	VATER QUALITY GUIDELINES		
_	Water Licence ⁽¹⁾ (Part F)	CCME (issue date)		
Arsenic (As)	0.1 mg/L	0.025 mg/L ⁽²⁾		
Aluminium	0.5 mg/L	0.035 mg/L ⁽⁷⁾		
Cadmium (Cd)	0.002 mg/L	0.00011 mg/L ⁽²⁾		
Chromium (Cr)	0.02 mg/L	0.001 mg/L ⁽²⁾		
Copper (Cu)	0.1 mg/L	0.002 mg/L ^(3, 4) (1987)		
Iron (Fe)	1.0 mg/L	0.3 mg/L ⁽³⁾ (1987)		
Lead (Pb)	0.05 mg/L	0.0017 mg/L ^(3, 8) (1987)		
Manganese (Mn)	no criteria	0.49 mg/L ⁽²⁾		
Mercury (Hg)	0.004 mg/L	0.000026 mg/L ⁽³⁾ (2003)		
Nickel (Ni)	0.25 mg/L	0.00657 mg/L ⁽²⁾		
Selenium (Se)	no criteria	0.001 mg/L ⁽³⁾ (1987)		
Zinc (Zn)	0.1 mg/L	0.028 mg/L ⁽²⁾		
Total Ammonia (NH ₃)	16 mg N/L	12.60 mg N/L ⁽²⁾		
Nitrate (NO ₃)	no criteria	2.93 mg N/L ^(3, 6) (2012)		
Chloride (Cl)	1,000 mg/L	120 mg/L ^(3, 5) (2011)		
Fluoride (F)	no criteria	0.12 mg/L ⁽³⁾ (2002)		
Total Phosphorus (P)	0.3 mg/L	0.01 mg/L ⁽²⁾		

Notes:

- (1) Water Licence 2AM-WTP1830 (Part F) discharge criteria.
- (2) Criteria presented in the FEIS.
- (3) CCME criteria as per the Water Quality Guidelines for the Protection of Aquatic Life for freshwater and long-term exposure. Criteria referenced from www.ccme.ca in 2021.
- (4) The copper discharge criterion depends on hardness. For hardness between 0 to 82 mg/L CaCO₃, the copper limit is set at 2 μg/L.
- (5) This is the long-term chloride concentration limit. The short-term concentration limit is 640 mg/L.
- (6) This is the long-term nitrate concentration limit (13 mg/L as NO₃). The short-term concentration limit is 550 mg/L.
- (7) Aluminum discharge criterion based on the FWQG, 2022.
- (8) Lead discharge criterion depend on hardness. For hardness between 0 to 60 mg/L CaCO₃, the limit is set at 0.0017 mg/L.

4. Water Quality Forecast Results

The constituents of concern (COCs) evaluated in the WQF model are limited to the same constituents that were identified during the Final Environmental Impact Statement (FEIS) Assessment during Operation: Arsenic and Phosphorus. Furthermore, additional COCs are considered in the WQF model during Closure and Post-Closure based on the water quality data collected on site.

Water quality forecasted concentrations are respectively presented in **Figure 4-1** to **Figure 4-7**. In each figure, the following information are presented:

- Updated Forecast total concentration of the COC;
- FEIS Forecasted total concentration for the COC;
- Last year Forecasted total concentration for the COC;
- Measured concentrations of the COC;
- Water Licence monthly average criterion (2AM-WTP1830) for the COC;
- CCME guideline (total concentration) for the COC.

4.1 During Operation

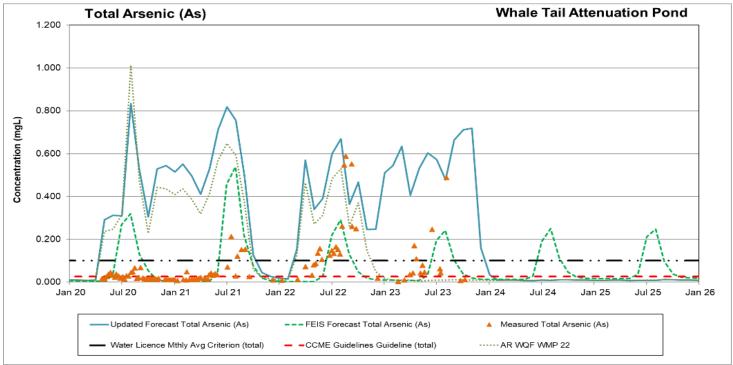
Figure 4-1 and **Figure 4-2** present the forecasted concentration for Total Arsenic and Total Phosphorous in the WT and IVR Attenuation Ponds, Kangislulik Lake and WTS Lake. These two parameters were identified as potential COCs in the FEIS.

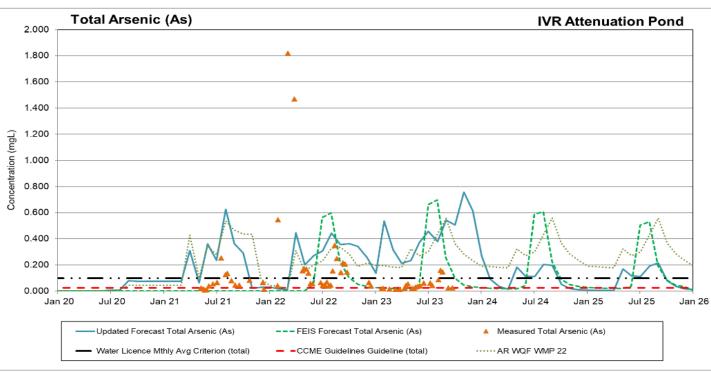
Additional figures are presented in **Appendix A** for the potential COCs that are considered during Operation based on the site water quality measured in WT and IVR Attenuation Ponds measured in 2023: Aluminium, Chromium and Iron.

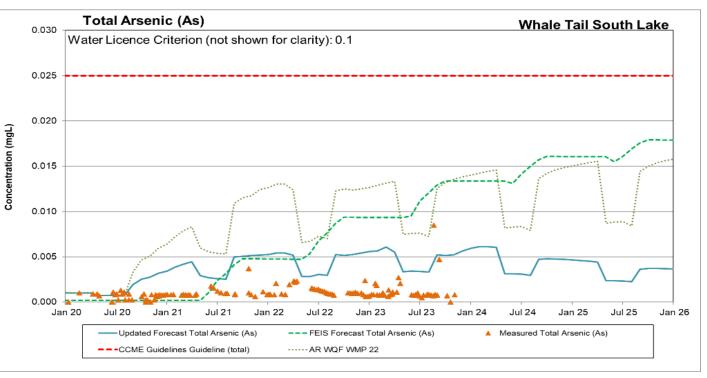
The following parameters were also identified as potential COCs in last year's annual report (SNC, 2023) and are also provided in **Appendix A**: Copper, Ammonia, Nitrate, Chloride and Fluoride.

Cadmium, Lead, Manganese, Mercury, Nickel, Selenium and Zinc were also identified as COCs in previous year's annual report (SNC, 2023 and Golder 2022). However, the measured values for Cadmium, Lead, Mercury, Nickel and Zinc are well below the Water Licence limits, while Manganese and Selenium are slightly above or generally below the CCME limits. For this reason, the forecast concentration for these parameters are not presented.









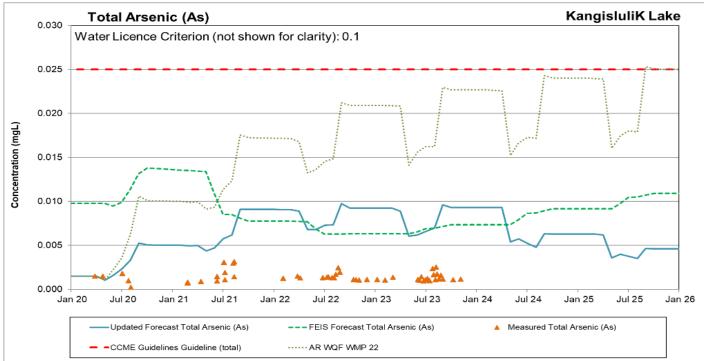
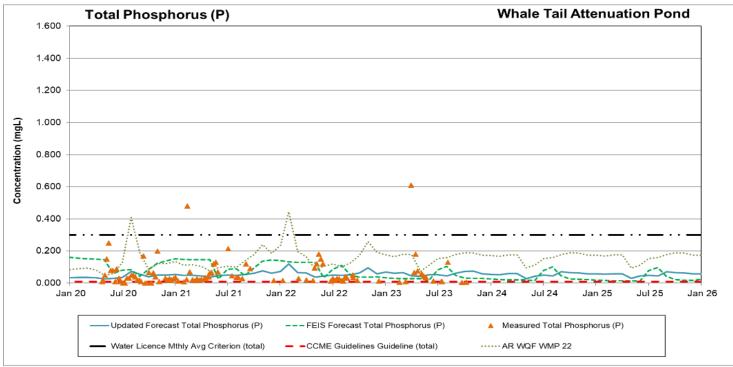
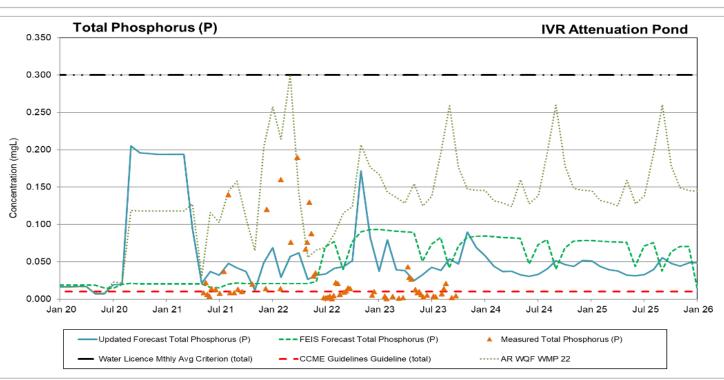
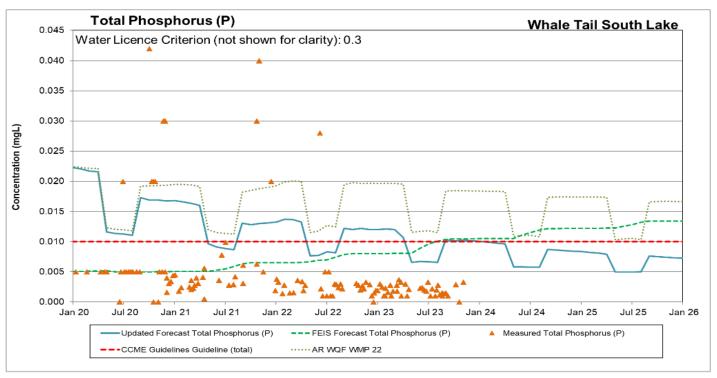


Figure 4-1: Total Arsenic Forecasted Concentrations during Operation









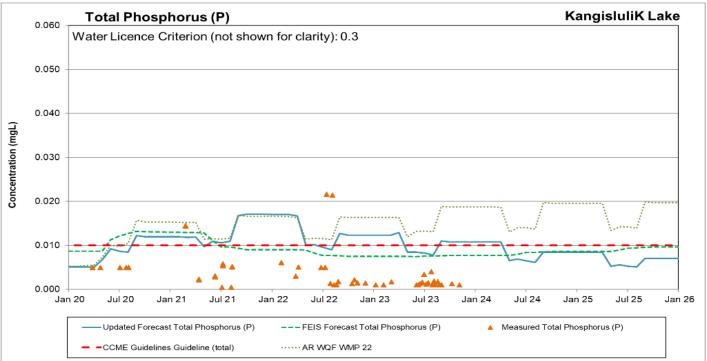


Figure 4-2: Total Phosphorous Forecasted Concentrations during Operation

4.2 During Closure and Post-Closure

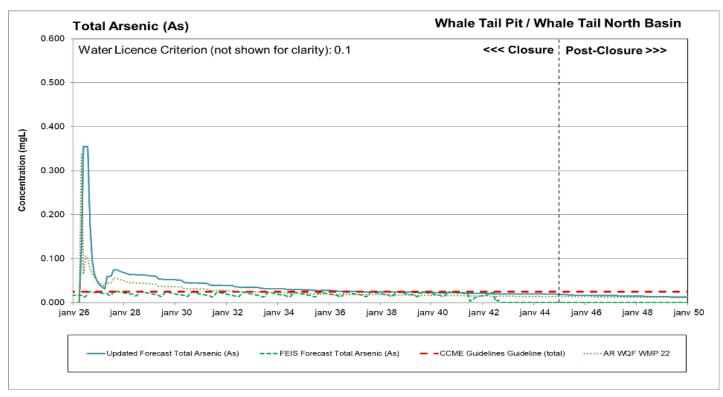
Figure 4-3 to **Figure 4-7** present the forecast concentrations for the following elements that were identified as potential COCs in last year's annual report (SNC, 2023) and based on the site water quality data collected in 2023, specifically:

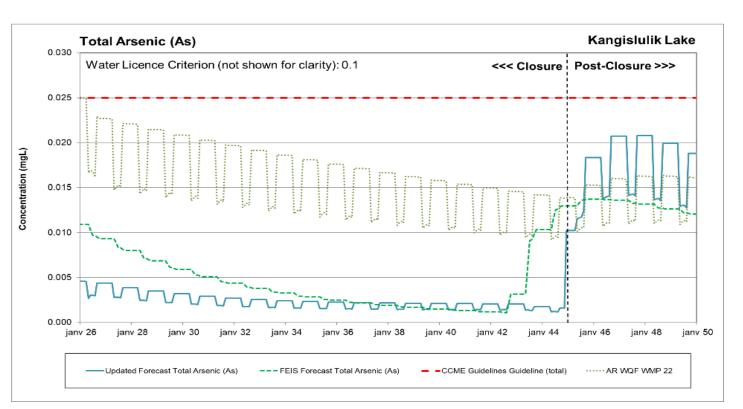
- Total Arsenic, Total Phosphorous;
- Total Aluminium, Total Chromium;
- Total Copper, Total Iron;
- Total Ammonia, Nitrate; and
- Chloride, Fluoride.

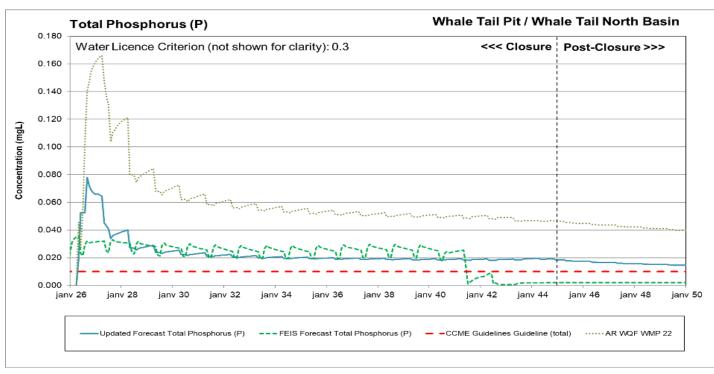
For each potential COC, two figures were generated to present the forecasted concentration in the WT Pit (which become the Whale Tail North (WTN) Basin at Closure and Post-Closure and Kangislulik Lake. These two locations were selected since:

- At Closure, all the runoff from the Whale Tail Mine site shall report to the WTN Basin;
- At Post-Closure, once the WT Dike and Kangislulik Dike are breached, water shall flow from WTS Lake to WTN Basin and finally to Kangislulik Lake.









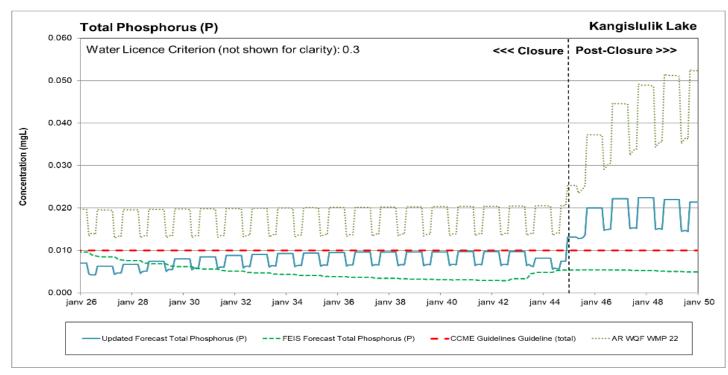
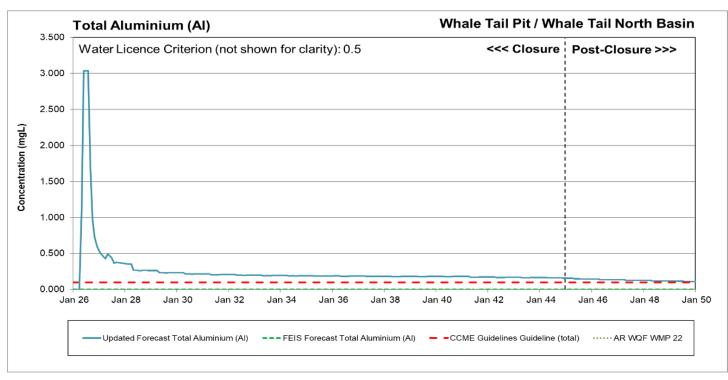
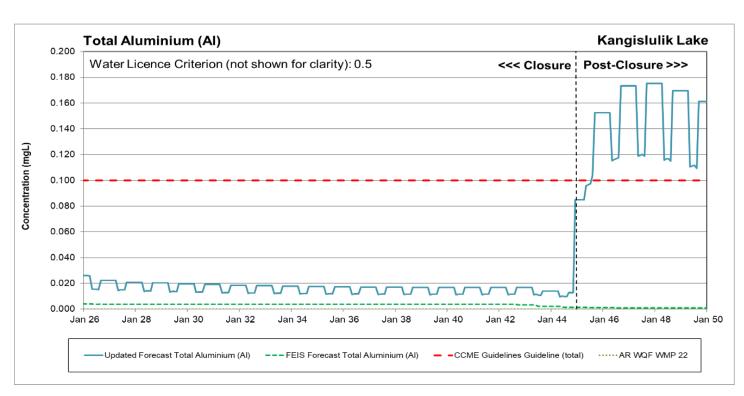
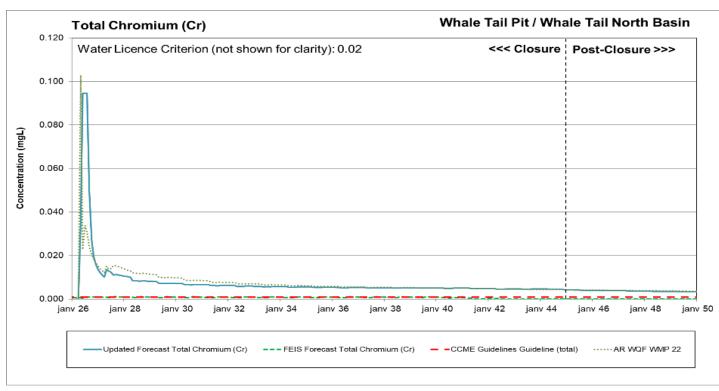


Figure 4-3: Total Arsenic and Phosphorus Forecasted Concentrations During Closure and Post-Closure ATKINSREALIS - Sensitive









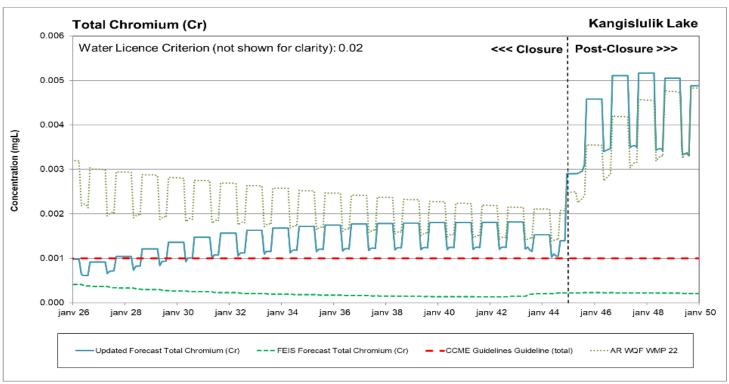
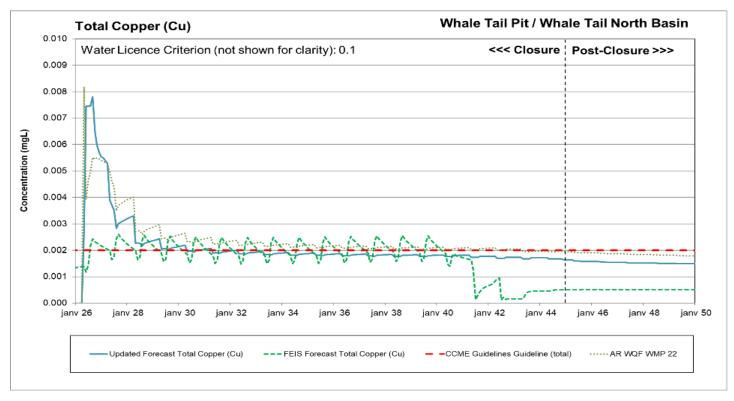
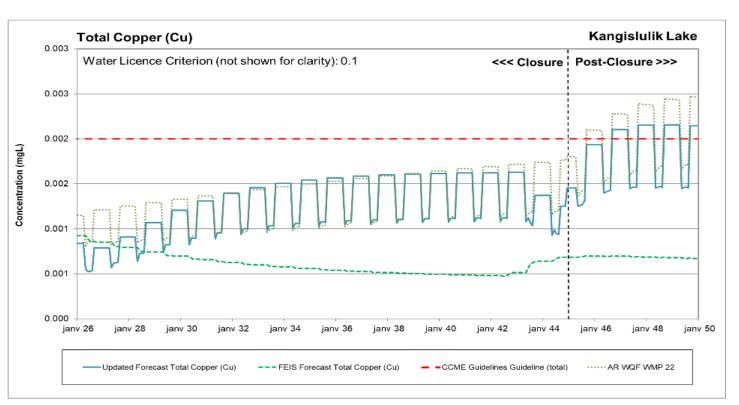
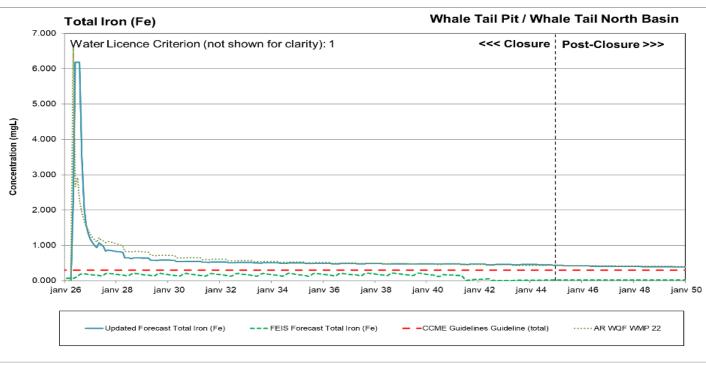


Figure 4-4: Total Aluminium and Total Chromium Forecasted Concentrations During Closure and Post-Closure ATKINSREALIS - Sensitive









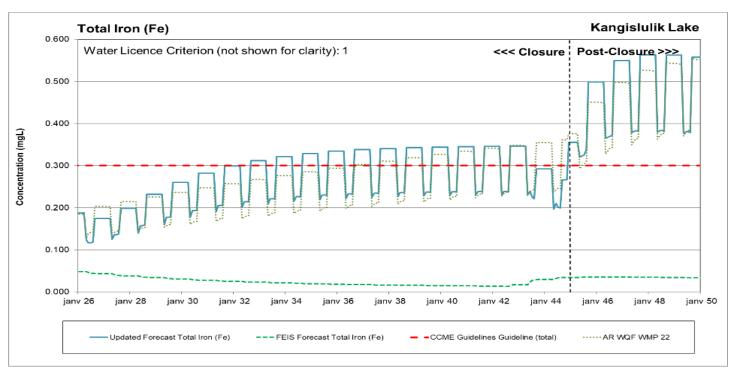
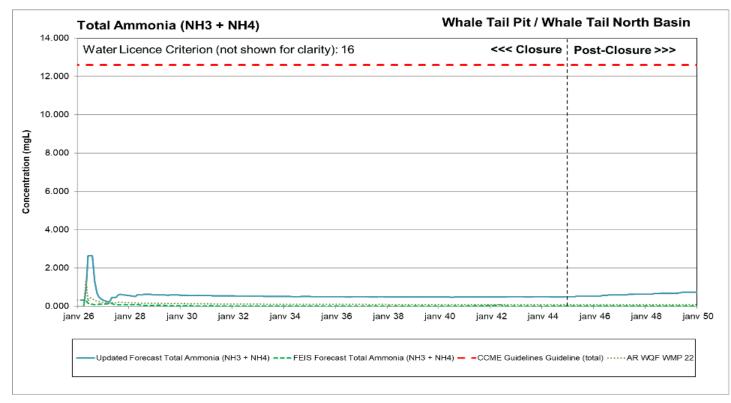
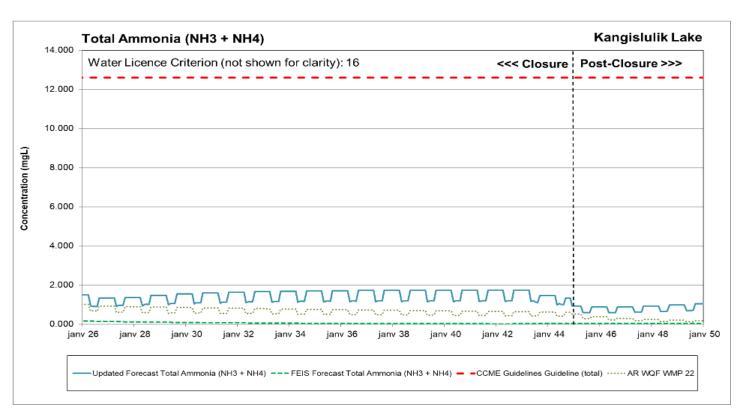
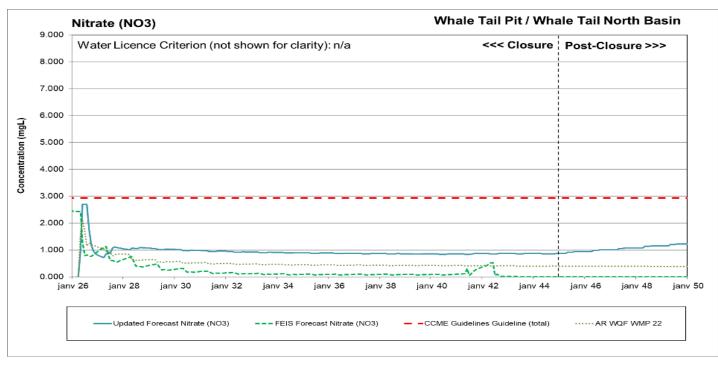


Figure 4-5: Total Copper and Iron Forecasted Concentrations During Closure and Post-Closure









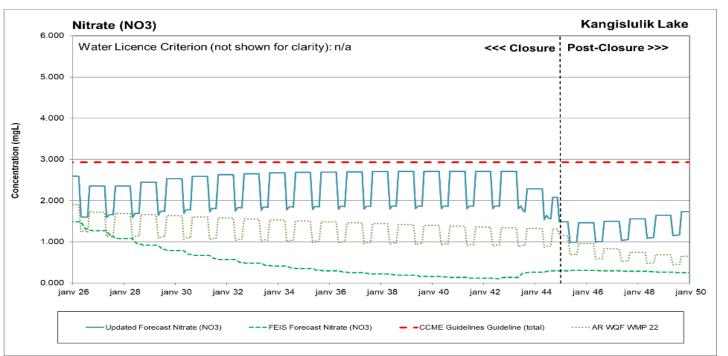
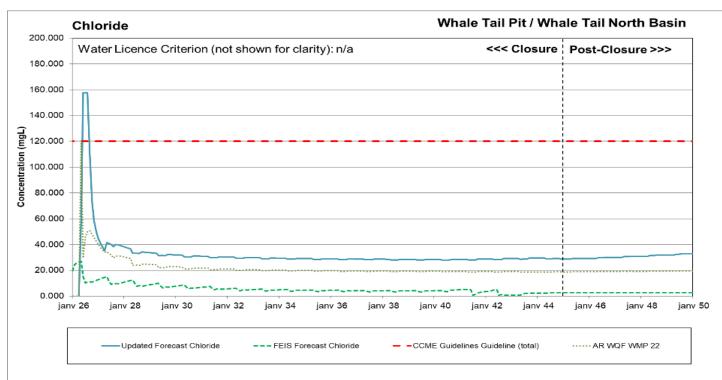
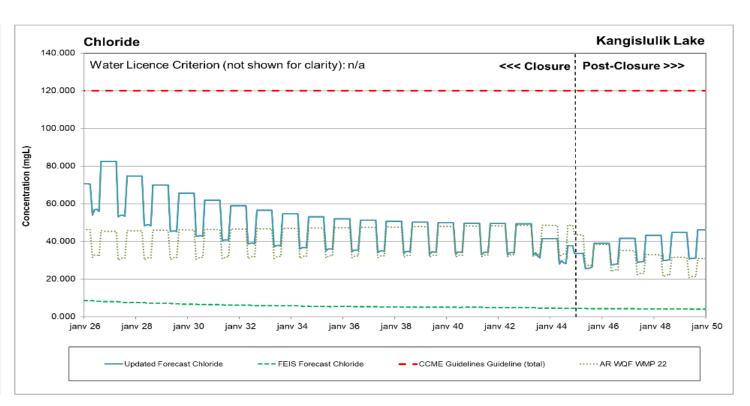
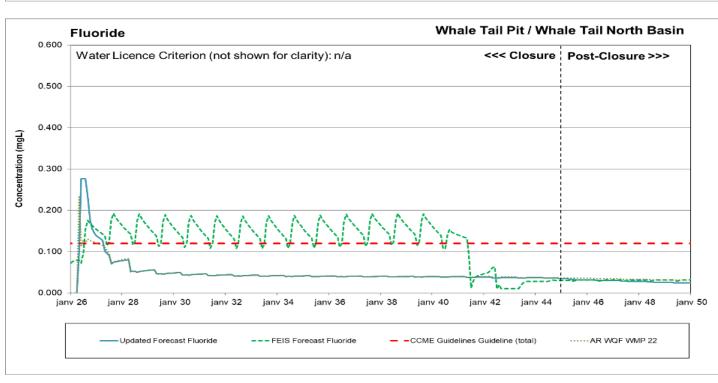


Figure 4-6: Total Ammonia and Nitrate Forecasted Concentrations During Closure and Post-Closure









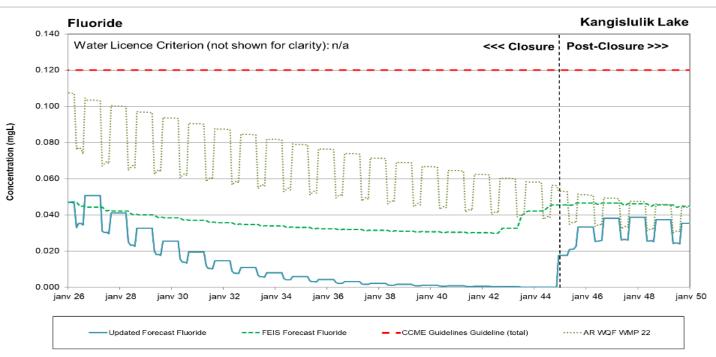


Figure 4-7 : Chloride and Fluoride Forecasted Concentrations During Closure and Post-Closure

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4.3 Discussions

4.3.1 During Operation

Based on the 2023 water quality forecast modelling results during Operation, the following key observations can be made:

- The WQF model forecasted concentrations are generally higher than the measured values, indicating that the model is conservative in its assessment.
- Water quality forecasted concentrations show general conformity to the forecasted values presented in the FEIS and the measured concentrations on site in both the Attenuation Ponds and Lakes.
- The WQF model forecasted concentrations are generally in the same range or higher than the FEIS forecasted values.
- In both Attenuation Ponds (Whale Tail and IVR):
 - Total Arsenic concentrations measured and forecasted are higher than the Water Licence discharge criterion; the water from these ponds is treated at the Water Treatment Plant (WTP) prior to discharge to Kangislulik or WTS Lakes.
 - Total Phosphorous concentrations forecasted were expected to be in general lower than the Water Licence criterion. Aside from one sample in Whale Tail Attenuation Pond, most of the measured values remain below the Water Licence criterion;
- In both lakes (Kangislulik and Whale Tail South Lake):
 - As shown in section 2.4 the treated effluent discharged to these lakes meets the Water Licence criteria for Arsenic and Phosphorus;
 - Total Arsenic concentrations are forecasted to remain steady during Operation and remain below the Water Licence criterion for this constituent based on the field measurements taken in these lakes. This follows a similar trend presented in the FEIS assessment for Kangislulik Lake, but not so regarding Whale Tail South Lake which predicted a gradual increase. Forecasted concentrations for this constituent are higher than the measured concentrations on site;
 - Total Phosphorus concentrations are forecasted to decrease during Operation and trend below the CCME guidelines. This trend is different from the FEIS forecast which showed an increasing trend during Operation. Measured concentration for this constituent is generally below the CCME guidelines in 2023.
- In general, the WQF model provides a conservative assessment of the water quality during Operation by assuming a fixed constant loading for each source term that does not decrease over time. Furthermore, a fixed water treatment efficiency is used based on average treatment efficiency observed at the WTP and adjusted to obtain a forecasted concentration in the lakes in the same range as the measured values.
- When comparing the forecasted values assessed last year (based on the 2022 WMP):
 - For Total Arsenic, the latest forecasted values are higher in the WT Attenuation Pond, lower in IVR Attenuation Pond and lower in Whale Tail South Lake and Kangislulik Lake. The higher concentrations in 2023 WQF model are due to the additional load measured in the field from both WRSF pond and the Whale Tail pit to WT Attenuation Pond. The lower concentration forecasted in the lakes are due to the adjustment

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in the model of the treatment efficiency at the WTP to obtain forecasted values that are in the same range as the measured values;

For Total Phosphorous, the latest forecasted values are lower than last year's forecast but trends more
closely with the measured values in the Attenuation Ponds and the lakes.

4.3.2 During Closure

Based on the water quality forecast modelling results during Closure, the following key observations can be made:

Comparison to CCME guidelines:

- In WT Pit / WTN Basin, concentrations of most parameters are forecasted to decrease over the Closure period and reach CCME limits, except for the following parameters: Phosphorus, Aluminium, Chromium and Iron. Note that:
 - o The metal concentrations exceedances at Closure remain slightly above the CCME criterion;
 - Total Phosphorus loading to WT Pit / WTN Basin comes mainly from the discharge of treated camp sewage water during this period. The loading applied during this period was assumed to be the same as the loading applied during Operation even if the camp size is expected to decrease, which provides a certain level of conservatism to the WQF model:
 - Aluminium, Chromium and Iron loading to WT Pit / WTN Basin comes mainly from the runoff encountering the pit walls in WT and IVR Pit.
- In Kangislulik Lake, forecasted concentrations are expected to decrease over this period since there is no longer any release of treated water from the Whale Tail Mine site. Kangislulik Lake shall only receive natural runoff water and water from the WTS Lake.
- In Kangislulik Lake, the forecasted concentrations show generally a decreasing trend below the CCME guidelines. This trend is generalized for all COCs, except for the following constituents: Chromium and Iron:
 - Iron forecasted concentration is trending to stabilize below CCME at the end of Closure (2044);
 - o Chromium forecasted concentration is trending to stabilize around the CCME limit at the end of Closure.

Comparison with last year's forecast:

- The WQF model forecasted concentrations are generally lower or in the same range as the forecasted values in last year's 2022 annual report. This is mainly due to the lower concentration forecasted in the Kangislulik Lake at the end of Operation.
- Forecasted concentrations generally present a similar trend to the 2022 forecast.

Comparison with FEIS assessment:

• The WQF model forecasted concentrations are generally higher or in the same range as the forecasted values in the FEIS assessment values, indicating that the model is conservative in its assessment.

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The WQF model forecasted concentrations have in general a similar trend than the forecasted values in the FEIS in both WTN Basin and Kangislulik Lake. Exceptions are noticed for Chromium and Iron in Kangislulik Lake which show an increasing trend during Closure when compared to the FEIS forecast.

4.3.3 During Post-Closure

Based on the water quality forecast modelling results during Post-Closure, the following key observations can be made:

Comparison to CCME guidelines:

- The forecasted concentrations show generally a stable trend below the CCME guideline in both WTN Basin and Kangislulik Lake. This trend is generalized except for Phosphorus, Aluminium, Chromium, Copper and Iron which are trending higher than the CCME guidelines in Kangislulik Lake and slightly above CCME in WTN Basin (except for Copper).
- The WQF model forecast a continued decreasing trend in the WTN Basin. This is to be expected since it shall continue to receive natural runoff, as well as water from the WTS Lake once the WT Dike is breached. Furthermore, water from WTN Basin shall be allowed to gravity flow toward Kangislulik Lake.
- The WQF model forecast an increasing trend in Kangislulik Lake at Post-Closure. This is expected since at Post-Closure, it shall start to receive water from WTN Basin which contains higher loads of potential COCs once Kangislulik Dike is breached.

Comparison with last year's forecast

- Forecasted concentrations generally present a similar trend to the 2022 forecast.
- However, some potential COCs showed a different trend than the 2022 forecast in Kangislulik Lake. The forecasted concentration for Fluoride showed a decreasing trend in post-Closure in 2022 forecast model, while this year's forecasted values showed slight increasing trend. The same observation can be made for Arsenic.
- In this year's WQF model, the model used to estimate the volume discharged from WTS Lake to Kangislulik Lake was updated based on actual field measurements. This change caused an increase in volume discharged from WTS Lake to Kangislulik Lake during Closure. Due to the higher volume of water flowing through Kangislulik Lake during this period, the total volume water in the lake is replaced more rapidly. Consequently, at the start of Post-Closure, the forecasted concentrations for certain COCs are lower in the lake. Once the dike is breached, the higher loads of potential COCs from WTN Basin increases the concentration in Kangislulik Lake.
- Forecasted Phosphorous concentrations are lower in this year's model when compared to last year's.

Comparison with FEIS assessment:

- The WQF model forecasted concentrations have in general a similar trend than the FEIS forecasted values in the WTN Basin and Kangislulik Lake;
- All of the forecasted concentrations showed higher concentrations than FEIS forecasted values in Kangislulik Lake, with the exception of Fluoride, indicating that the model is generally conservative in its assessment.

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4.3.4 Adaptive Management Plan

As per the Water License **2AM-WTP1830**, **Part E**, **condition 9**, the dikes shall not be breached until the water quality in the re-flooded area meets *CCME Water Quality Guidelines for the Protection of Aquatic Life*, baseline concentrations, or appropriate site-specific water quality objectives. Water quality analysis shall continue to be taken during the Operation and Closure periods and the WQF model shall be updated accordingly.

If the results from the WQF model are forecasting trends that are deviating from what is anticipated, the adaptive management plan shall be activated. The adaptive measures that could be put in place include an increase in sampling frequency, identification of root cause of the deviation and implementation of a mitigation plan and maintaining the existing WTP available during Closure for treatment if required.

4.3.5 Sensitivity Analysis

The water balance model provides an estimate of the re-flooding period of the pits based on the active volume of water transferred from WTS Lake and assuming a net average precipitation received on the site during Closure (base case scenario). Based on this assumption, the WT Pit / WTN Basin is projected to be filled by the end of 2044.

For demonstration purposes only, if it is assumed that a dry year occurred for year 2025, 2027, 2029 and 2031 (alternative case), the WT Pit / WTN Basin will not be reflooded by the end of 2044, as illustrated in **Figure 4-8**. Consequently, to achieve a tentative reflooding date of end of 2044, the volume of water pumped from WTS Lake could be adjusted based on the actual runoff received on the site during Closure. A modification to the authorized water use in the Water License could be required. The reflooding period could also just be extended until final elevation of 153.5m is reached.

AtkinsRéalis Water Quality Forecast Update Based on 2023 WMP for Whale Tail Mine Document No: 699134-4000-40ER-0001 Rev. 00 March 21, 2024

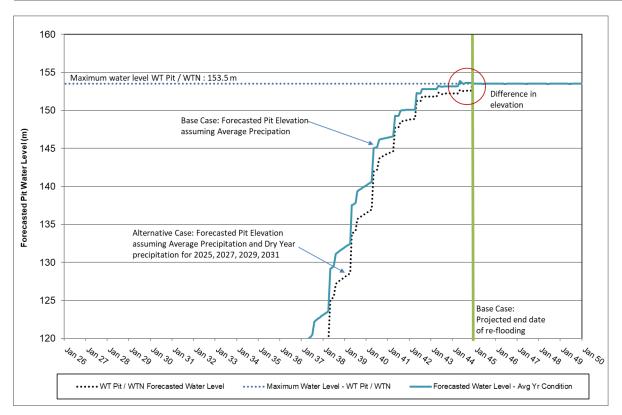
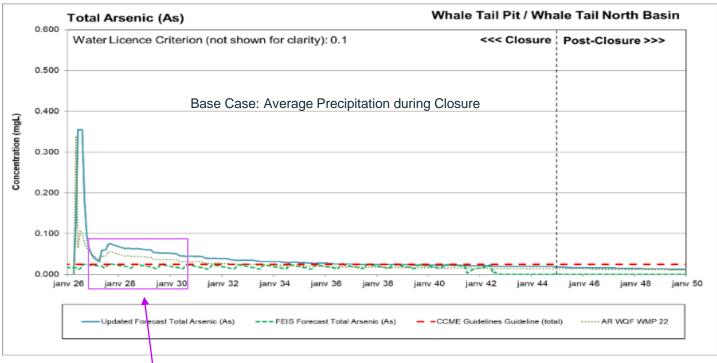
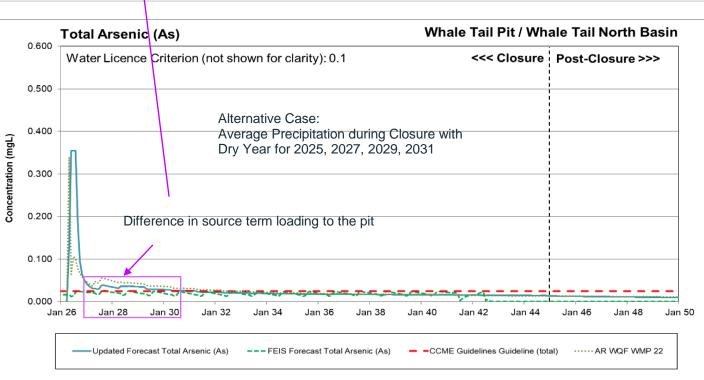


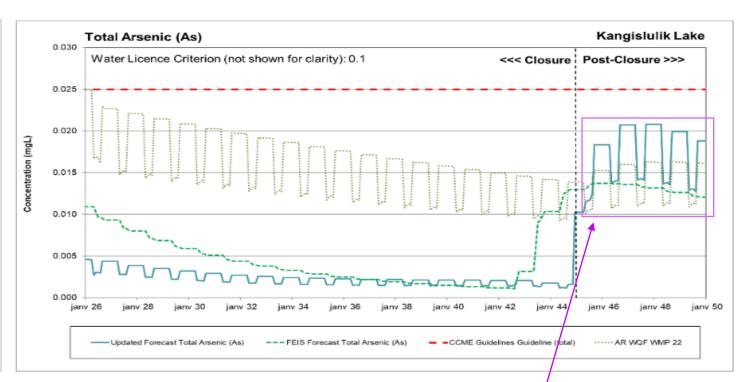
Figure 4-8: Sensitivity Analysis of Forecasted Water Elevation in WT Pit / WTN Basin

The forecasted concentrations will also vary based on the runoff reporting to the site during Closure. For example, based on the same dry year assumption presented above, **Figure 4-9** illustrates the difference in forecasted Total Arsenic concentration between the Base Case (average precipitation) and Alternative Case (average precipitation with dry years). The lower concentrations observed in the Alternative Case is due to the lower runoff volumes coming into contact with the pit walls which results in a lower Arsenic load reporting to the WTN Basin.









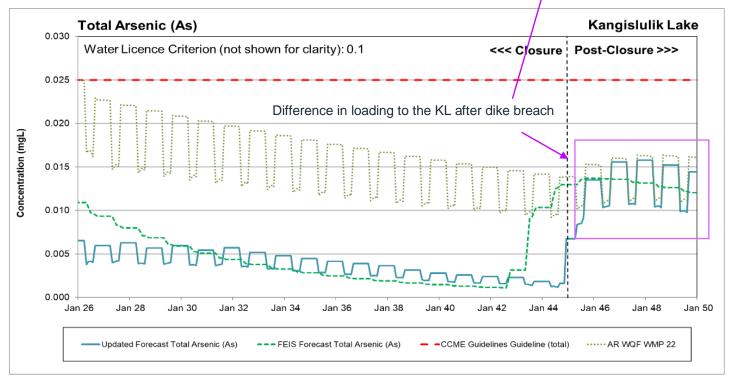


Figure 4-9 : Sensitivity Analysis of Forecasted Total Arsenic

AtkinsRéalis Water Quality Forecast Update Based on 2023 WMP for Whale Tail Mine Document No: Rev. Date: 699134-4000-40ER-0001 00 March 21, 2024

5. Conclusions

5.1 Results Summary

A Water Quality Forecast (WQF) model was developed based on the AEM 2023 Water Balance for the Whale Tail Mine site. The WQF model includes Operation, Closure and Post-Closure phases. The WQF model focused on providing forecasted concentration in Whale Tail and IVR Attenuation Ponds, Kangislulik and Whale Tail South (WTS) Lakes and, at Closure/Post-Closure, Whale Tail Pit (which becomes the Whale Tail North (WTN) basin at Closure).

Based on the FEIS Assessment, last year's 2022 annual report, as well as the site water quality data collected in 2023, the following Constituents of Concern (COCs) were considered in this year's WQF model:

- Total Arsenic;
- Total Phosphorus;
- The following total metals: Aluminium, Chromium, Copper, and Iron;
- Total Ammonia;
- Nitrate:
- Chloride; and;
- Fluoride.

The key observations from this year's WQF model can be summarized as follows:

- The WQF model modelling parameters, specifically the treatment performance of the WTP to remove certain COCs, were adjusted to forecast concentrations that are in the same range as the measured values sampled in WTS and Kangislulik Lakes during Operation;
- The WQF model estimated concentrations for COCs during Operation, Closure and Post-Closure in the same range or higher when compared to the values presented in the FEIS assessment, except for Arsenic during Operation and Fluoride at Closure;
- The WQF model generally forecast similar or increasing concentration trends over time for the COCs when comparing to FEIS assessment values, except for Arsenic during Operation and Fluoride during Closure;
- Forecasted concentrations are generally higher or in the same range as the measured values on site;
- All forecasted concentrations are below the Water Licence criterion for the COCs during Operation in WT and IVR Attenuation Ponds. The water from these ponds is treated at the Water Treatment Plant (WTP) prior to discharge to Kangislulik or WTS Lakes;
- At Closure, all of the concentration of COCs in Kangislulik Lake are forecasted to decrease over time since there is no longer any discharge of treated water to the lake; and
- At Post-Closure, many COCs are forecasted to increase in Kangislulik Lake since WTN Basin shall be reconnected to Kangislulik Lake once the WT and Kangislulik Dikes are breached. However, most COCs are expected to remain below the CCME guidelines, except for the following: Phosphorus, Aluminium, Chromium, Copper and Iron.

AtkinsRéalis Water Quality Forecast Update Based on 2023 WMP for Whale Tail Mine Document No: Rev. Date: 699134-4000-40ER-0001 00 March 21, 2024

5.2 Recommendations

Based on the results of the WQF model, the model provides a conservative estimate of the evolution of COCs concentrations over time.

To improve the accuracy of the model so that it can better forecast the concentration of the COCs in the WT and IVR Attenuation Ponds, WT Pit and in Kangislulik and WTS Lakes, the following studies, tests and monitoring are recommended:

- Continue to monitor water quality in the Attenuation Ponds and Kangislulik and WTS Lakes;
- Continue to monitor the water quality collected from the Whale Tail and IVR open pits;
- To better understand the loading of potential COCs from the exposed pit wall during Operation and following Closure, determine if it is possible to sample the pit wall runoff safely. Consider advancing the hydrogeological model and understanding of the pit wall lithology to assess the potential loading of COCs during Operation and Closure; and
- A robust water quality sampling plan shall need to be developed for Closure and Post-Closure. Areas to sample include WT Pit, IVR Pit, WT Attenuation Pond and the WTN Basin once all these ponds are hydraulically connected. Once the WTN Basin is formed, it is recommended to sample the surface water in different areas in the basin as well as different depths to gain a better understanding of the hydraulic behavior of this basin.

AtkinsRéalis TECHNICAL NOTE Water Quality Forecast Update Based on 2023 WMP for Whale Tail Mine **Document No:** Rev. Date: 699134-4000-40ER-0001

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March 21, 2024

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APPENDIX

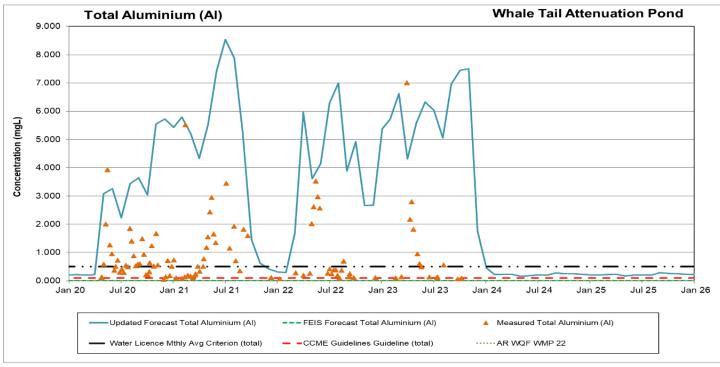


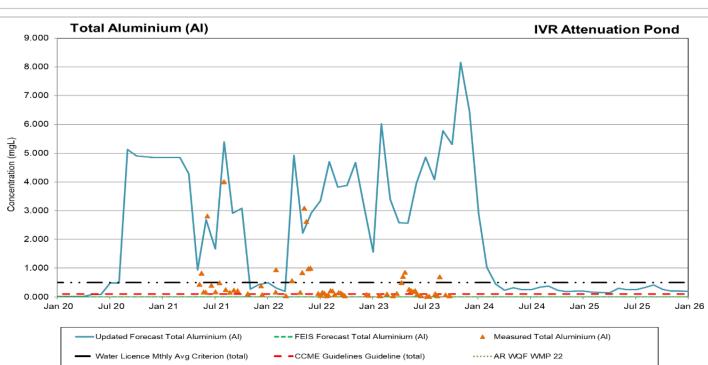
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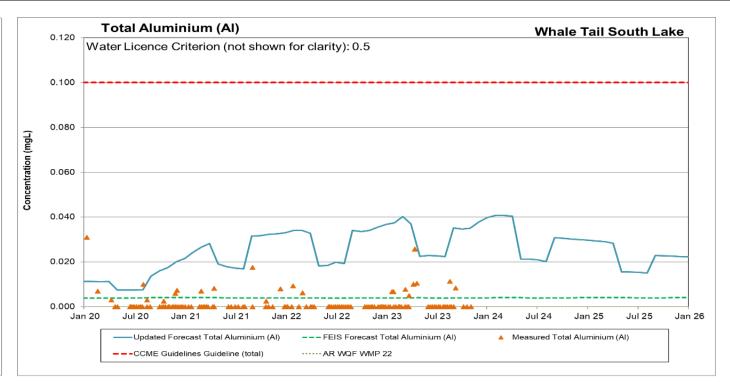
APPENDIX A.

Forecasted Concentration for Potential Constituents of Concern during Operation









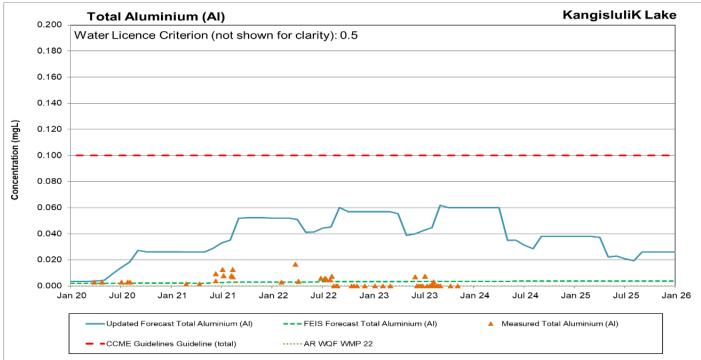
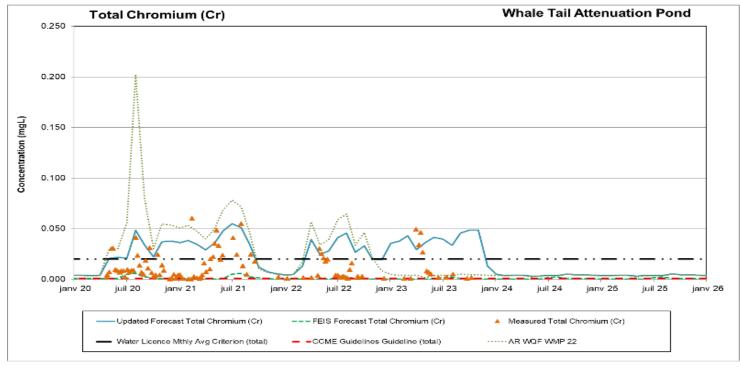
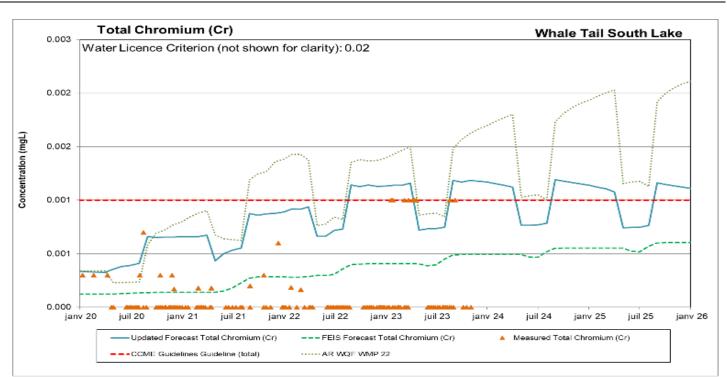


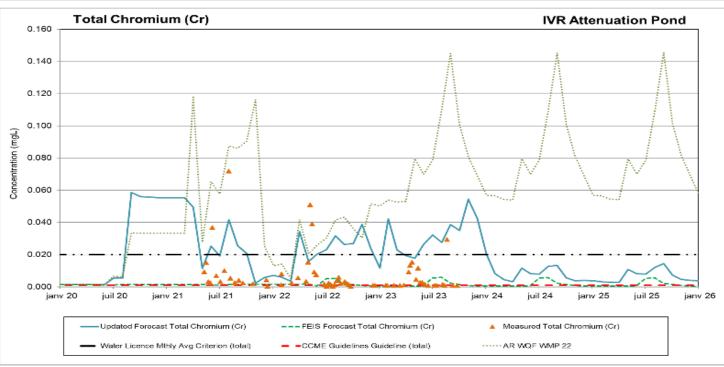
Figure A-1: Total Aluminium (Al) Forecasted Concentrations during Operation



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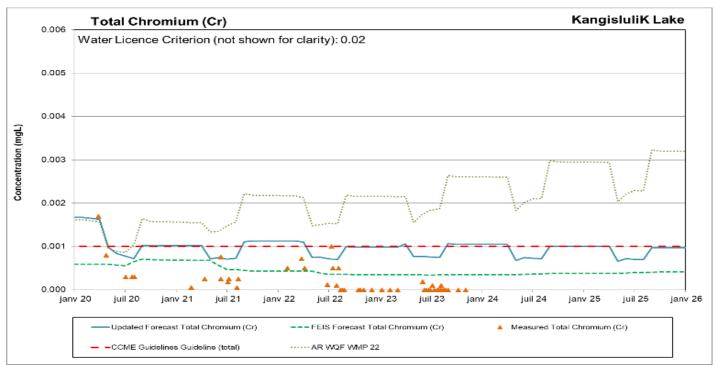
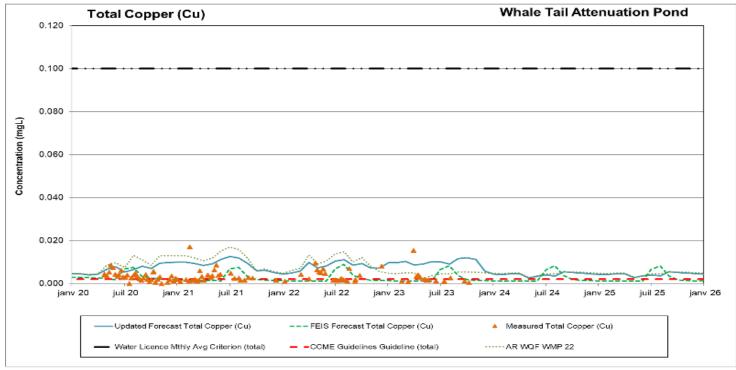
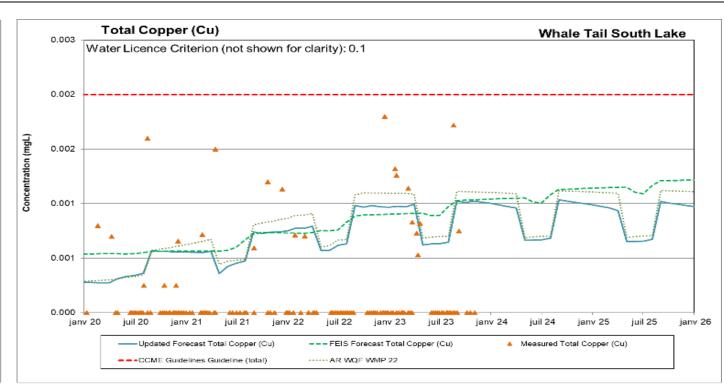


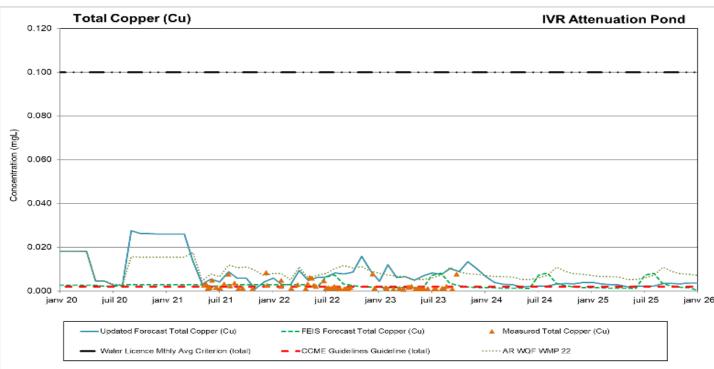
Figure A-2: Total Chromium (Cr) Forecasted Concentrations during Operation



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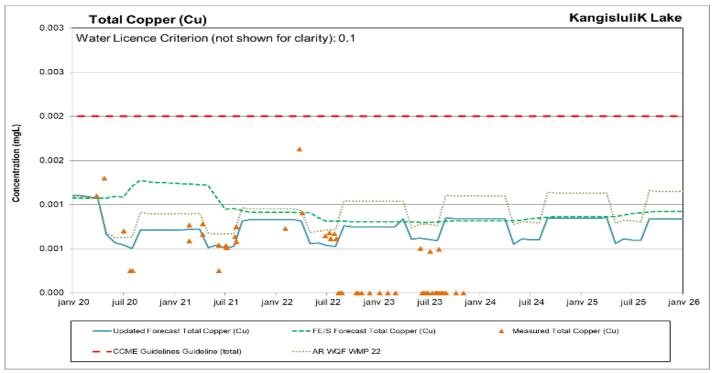
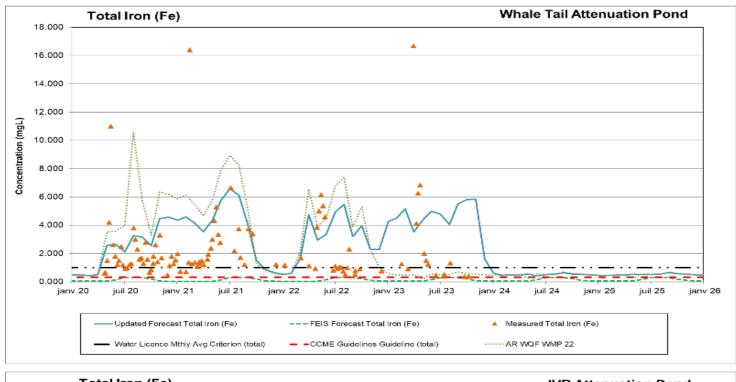


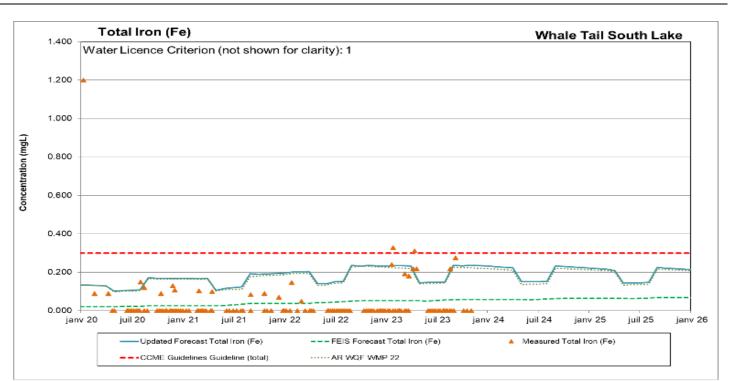
Figure A-3: Total Copper (Cu) Forecasted Concentrations during Operation

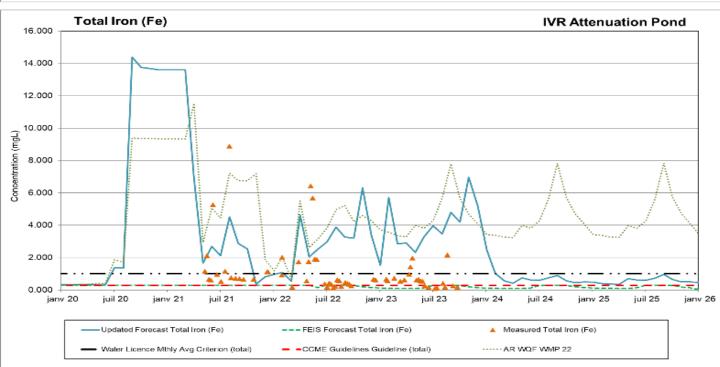


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A-4







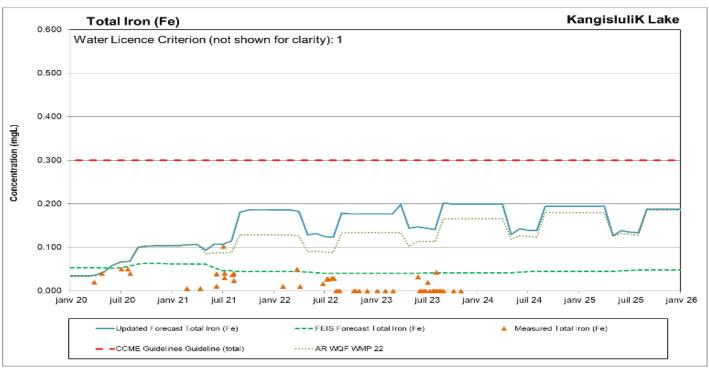
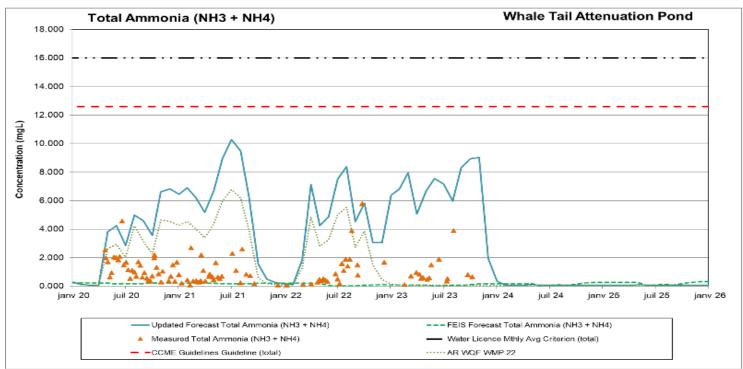
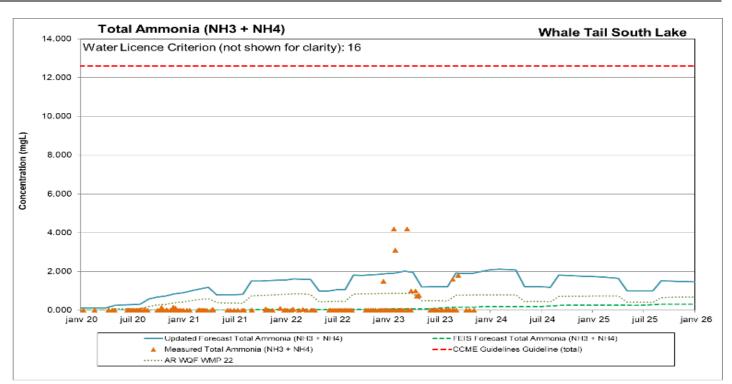


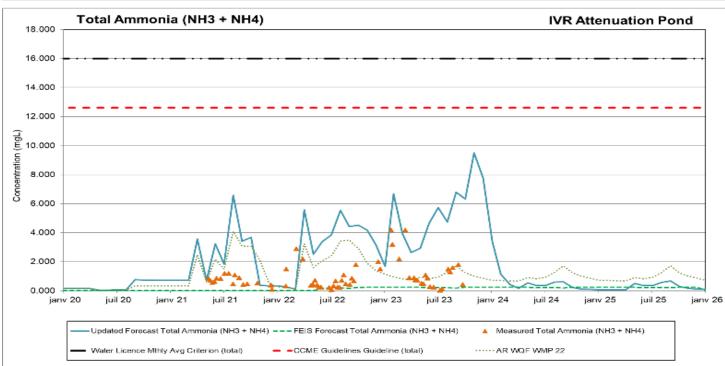
Figure A-4 : Total Iron (Fe) Forecasted Concentrations during Operation



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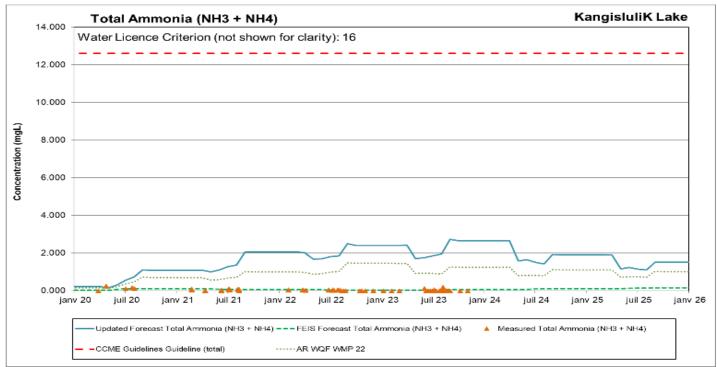
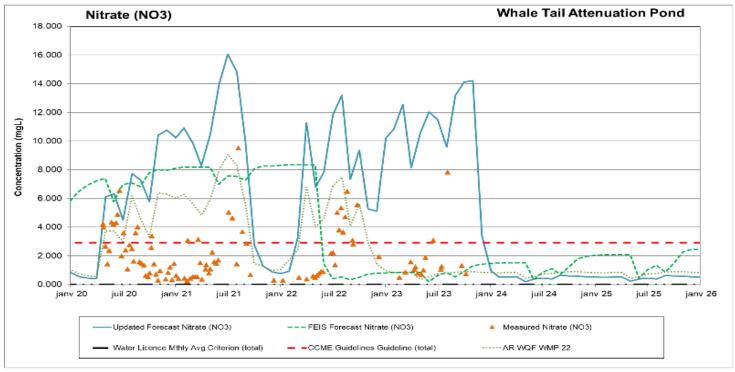
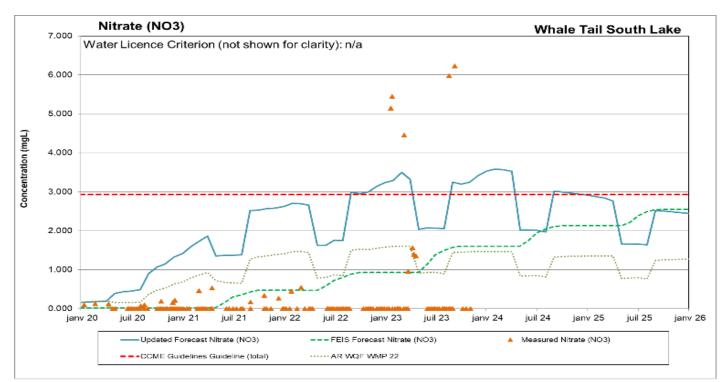


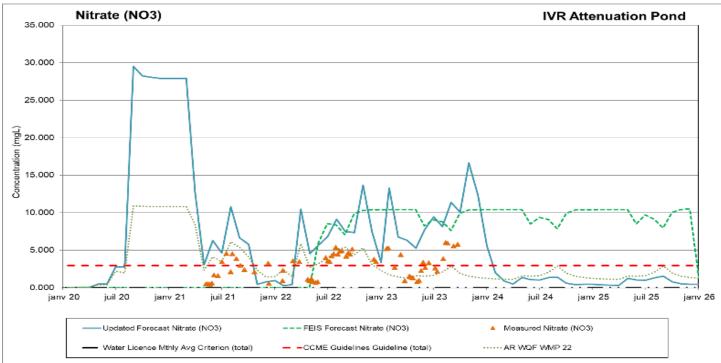
Figure A-5: Total Ammonia (NH3+NH4) Forecasted Concentrations during Operation



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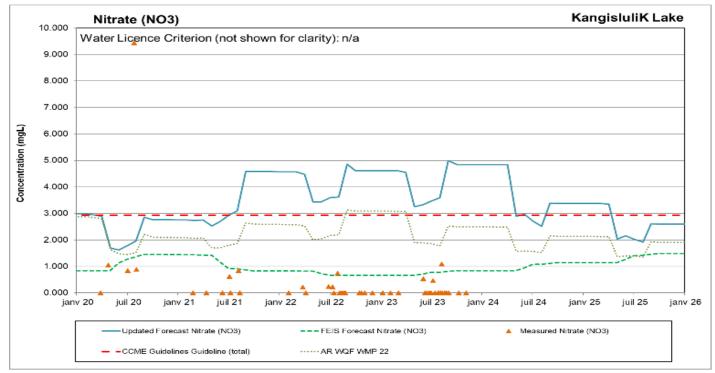
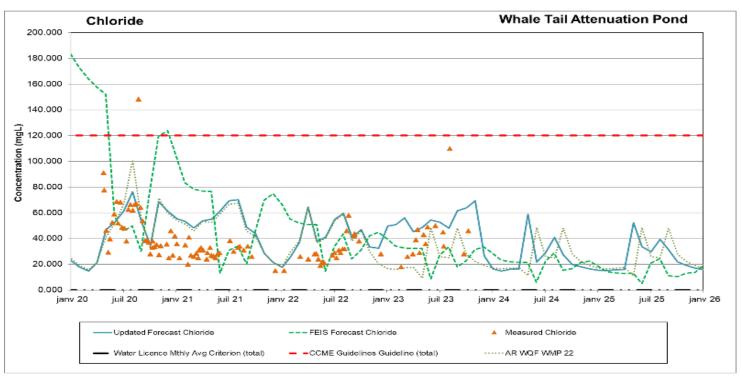
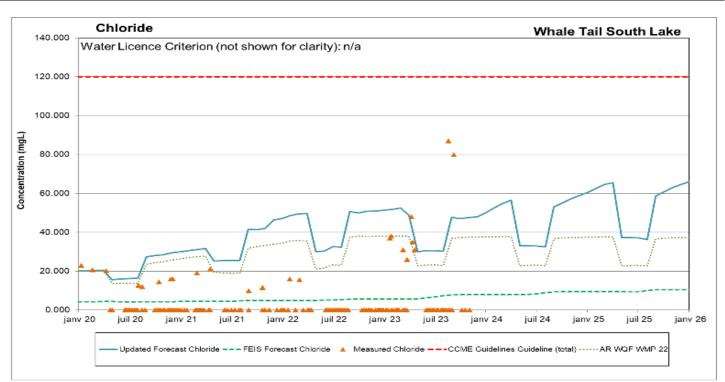


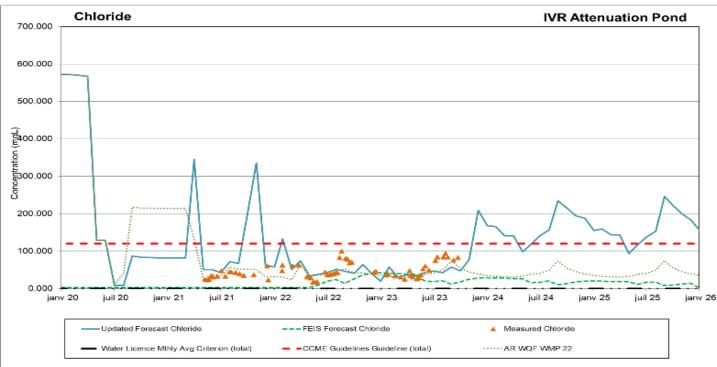
Figure A-5: Nitrate (NO3) Forecasted Concentrations during Operation



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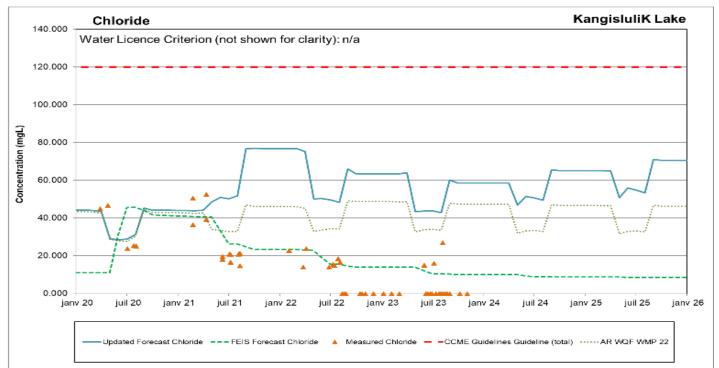
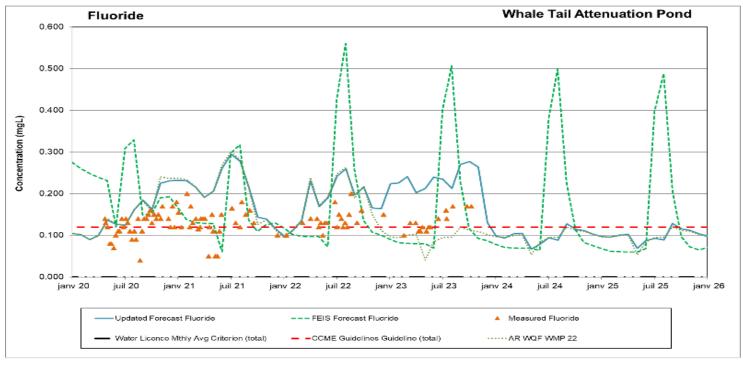
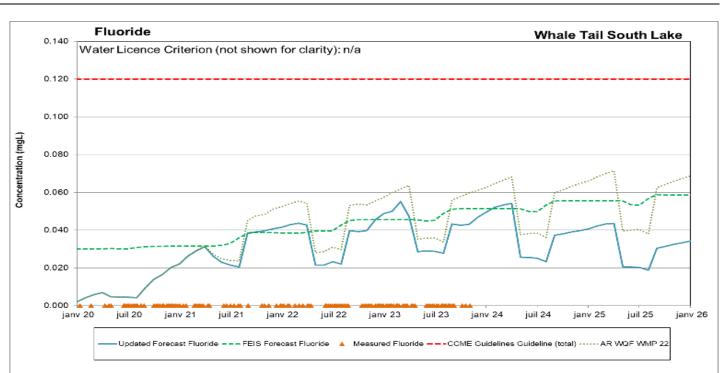


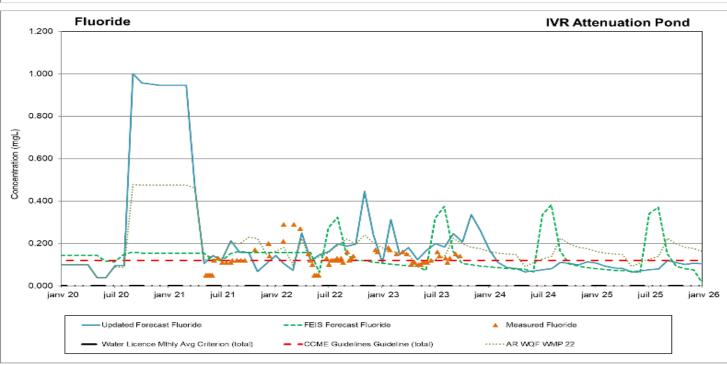
Figure A-6: Chloride (CI) Forecasted Concentrations during Operation



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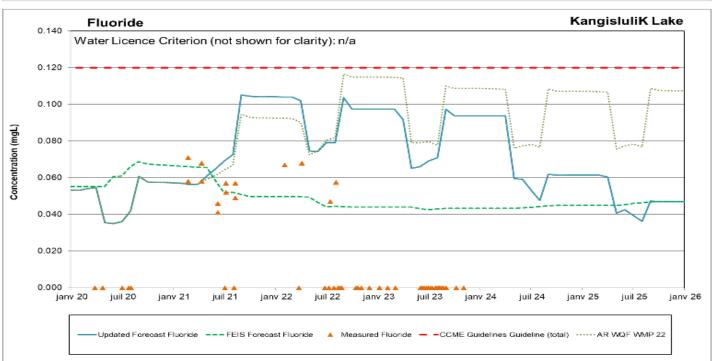


Figure A-7 : Fluoride (F) Forecasted Concentrations during Operation



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APPENDIX E • 2023 FRESHET ACTION PLAN



MEADOWBANK COMPLEX

WHALE TAIL FRESHET ACTION PLAN

MARCH 2024

VERSION 6



EXECUTIVE SUMMARY

The purpose of this Freshet Action Plan is to identify areas of concern around the Whale Tail Mine and the associated Hauling road needing to be managed in an organized and timely manner during the annual freshet period to prevent adverse environmental and operational impacts. The Plan outlines specified actions that will be taken by Agnico to manage and mitigate areas where environmental incidents could occur, as well as addressing historical incidents, specifically the WRSF dike seepage.

The freshet period is typically initiated during the annual snow and ice melt sometime around mid-May. During this period excess water is created and must be managed through additional pumping and management practices at vulnerable areas around the site. Mitigation techniques, timeframes and specified roles and responsibilities are outlined in this document for each area of concern.

The main areas of concern are the mining pit, the WT WRSF surrounding and pond, the IVR WRSF, the Whale Tail Attenuation Pond, the IVR attenuation Pond, the South Whale Tail Diversion Channel, and the IVR Diversion Channel.

It is important for all water management and associated infrastructure to be in good working order and adequate to manage the expected water flows associated with the freshet period; this includes but is not limited to pumps, ditch, culvert and sump maintenance, critical piping system installation and inspection, as well as adequate resource allocation for preparative work. A summary of the 2024 preparation works and roles and responsibilities is presented in the attached Appendix 1 (2024 Freshet Action Plan Procedures). Appendix 1 will be updated yearly to reflect changes in conditions at the Whale Tail site.

March 2024 ii



DOCUMENT CONTROL

Revision				Pages	B
#	Prep.	Rev.	Date	Revised	Remarks
01	Agnico	Internal	March 2019	All	Initial Version
02	Agnico	Internal	March 2020	All	Comprehensive update from 2019 plan
03	Agnico	Internal	March 2021	All	Comprehensive update from 2020 plan to include IVR infrastructures
04	Agnico	Internal	March 2022	All	Comprehensive update from 2021 plan
05	Agnico	Internal	March 2023	2	Figure 2-1 was updated
				5	Included the new pads that were built in 2022
				6	Section 2.13 was added to include the east and west abutment
				Appendix 2	Included a 2023 version
				Appendix 3	Included a 2023 version - Modifications with the pit transfers
				4	Section 2.4 was updated
06	Agnico	Internal	March 2024	6	Section 2.13 was removed
				Appendix 1	Freshet action plan procedure was updated
				Appendix 2	Snow management map was updated
				Appendix 3	Freshet flowchart and plan view were updated

Prepared By: Meadowbank Environment

Approved by:

Eric Haley

Environment & Critical Infrastructure Superintendant

March 2024



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1 INTRODUCTION

The purpose of the Whale Tail (WT) Freshet Action Plan is to ensure that Agnico can address and manage excess water associated with the freshet season at the Whale Tail site, and to ensure Agnico has implemented specific management and mitigation measures in response to environmental incidents with potential for offsite impacts to water or land.

The freshet season is loosely defined as starting approximately May 15th, and in some cases, actions and mitigation measures can extend up to early fall when freezing re-occurs. There are many areas around the site that are vulnerable to excess water; the goal is to identify these areas and develop a clear plan with defined roles and responsibilities (amongst Agnico departments), and to manage the freshet flows.

In addition, several guiding principles are applicable to the formation of this plan. The highest priority principles are:

- 1) to ensure that the health and safety of Agnico employees is protected, especially with respect to mining operations when excess water is present.
- 2) to ensure that mine contact water from runoff or seepage is managed to prevent adverse environmental impacts; and
- 3) to make sure the site is in compliance with the Nunavut Water Board (NWB) License, Part D, Item 21 and Part E, Item 11.

The plan will identify the areas of concern and discuss the potential risks as well as mitigation measures necessary to address the identified issues. The overall site footprint has increased, and experience needs to be gained in identifying key location; lessons learned from the Meadowbank site will provide the necessary guidance. Appendix 1 contains the defined 2024 procedures, the roles and responsibilities and associated timelines. Agnico's intent is to update the Procedural Appendix on a yearly basis. There may be additional mitigation measures for a defined problem area or in some cases a previously defined issue may be permanently rectified.

The main areas of concern are:

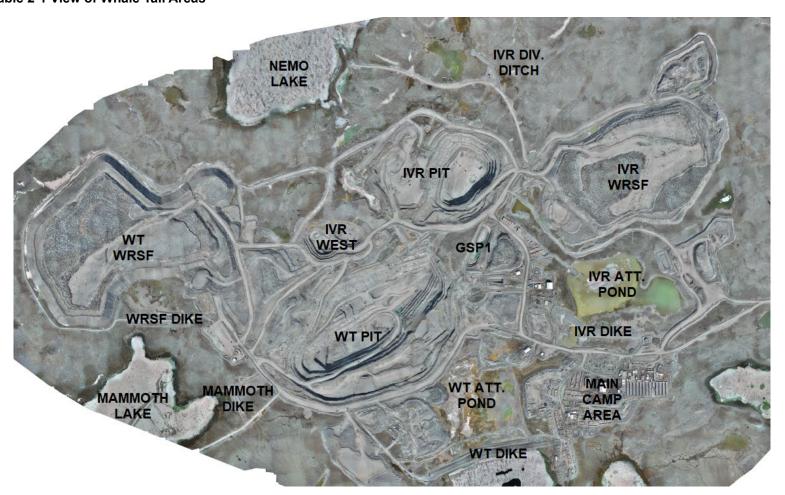
- Mining pits and pit walls;
- Whale Tail WRSF and WRSF pond;
- IVR WRSF;
- South Whale Tail Diversion Channel;
- IVR Diversion Channel:
- Whale Tail Attenuation pond;
- Whale Tail Dike Seepage;
- IVR Attenuation Pond;
- WT Fuel Tank farms:
- Haul road culverts and bridges;
- Pads and roads built since 2022;
- Underground WRSF; and
- Whale Tail Dike East and West Abutment.

Each area identified above will be discussed in detail below. All areas of concern are considered priorities based on the guiding principles.



2 AREAS OF CONCERN

Table 2-1 View of Whale Tail Areas





2.1 MINING PITS AND PIT WALLS

All ramps, jump ramps, ditches and sumps must be cleaned of all ice and snow before May in order to contain any water resulting from the snow melt. All allocated pumps must be checked and serviced before the month of May. In addition, a check must be completed confirming that all piping systems starting from the different pits leading to the Whale Tail attenuation pond are free of ice, or any obstruction.

The water management strategy for the pits will be to send water from the WT Pit and IVR Pit area to either the WT Attenuation Pond or the IVR Attenuation Pond.

- A sump and ditch system is used to manage runoff water within the pit footprints. The
 infrastructures location will be modified or added as required based on the mining
 sequence.
- Sumps outside of the pit footprint are planned to prevent runoff from reporting to the Pit and to prevent water from ponding against the pit crest.
 - At WT Pit this includes the sumps located at the downstream area of Mammoth Dike and the North-West sump;
 - At IVR Pit this include the sump located in former Lake A47 (A47-S sump) and in the Northern area of IVR Pit (A47-N sump).

2.2 WHALE TAIL WASTE ROCK STORAGE FACILITY

Runoff from the Whale Tail Waste Rock Storage Facility (WT WRSF) is collected by 5 sumps (WT WRSF 1,2,3,4 & 5) as well as the WRSF pond delimited by WRSF Dike. Water from these sumps is pumped to the WRSF Pond and the WRSF Pond water is pumped to the WT Attenuation Pond or IVR Attenuation Pond.

The WT WRSF will require weekly inspections around the perimeter beginning as soon as the freshet starts (May) until freeze up to identify any seepage. In the event that seepage is observed from the WT WRSF, it must be reported to the Environment Departments and samples must be taken to determine the water quality and source. A mitigation plan will be prepared and implemented if necessary. Based on field observation, it may be deemed necessary to remove snow accumulation in the sumps around the WT WRSF to mitigate risk of snowmelt reporting to the surrounding environment. Runoff originating from the WT WRSF ultimately ends up in the WT WRSF pond. In August 2019, seepage from this pond was found to have reported through the WRSF Dike to the Kangislulik Lake. Remediation measures put in place in 2020 demonstrated to be successful. Daily inspections of the WRSF Downstream Pond will be required to confirm no seepage is occurring. A pump must be available in this location to pump any water potentially seeping through the structure back into the WRSF Pond.

2.3 IVR WASTE ROCK STORAGE FACILITY

Runoff from the IVR Waste Rock Storage Facility (WRSF) is collected by 5 sumps (IW A,B,C,D,E). Water from these sumps is sent to the IVR Attenuation Pond either by pumping or by gravity.

The IVR Waste Rock Storage Facility (IVR WRSF) will require weekly inspections around the perimeter beginning as soon as the freshet starts (May) until freeze up to identify any seepage and ensure that the gravity flow to the IVR Attenuation Pond are occurring as planned. In the event that



seepage is observed from the IVR WRSF, it must be reported to the Environment Departments and samples must be taken to determine the water quality and source. A mitigation plan will be prepared and implemented if necessary. Based on fie 1ld observation, it may be deemed necessary to remove snow accumulation in key locations around the IVR WRSF to mitigate risk of snowmelt reporting to the surrounding environment.

2.4 SOUTH WHALE TAIL DIVERSION CHANNEL

The South Whale Tail Diversion Channel was constructed in 2020. In early May, partial snow removal will be required in this infrastructure to form a preferential water path and prevent snow blockage. Daily inspection at the start of freshet will be required until freshet is completed and following rain events, to ensure no contaminant is transported into Kangislulik Lake.

2.5 IVI DIVERSION CHANNEL

The IVR Diversion Channel was constructed during the fall of 2020. The IVR Diversion Channel serves to divert the watershed reporting to the IVR Pit towards the C-Watershed. This will reduce the amount of contact water to manage on site. In early May, partial snow removal will be required in this infrastructure to form a preferential water path and prevent snow blockage. Daily inspection at the start of freshet will be required until freshet is completed and following rain events, to ensure no contaminant is transported into the surrounding environment. Additional mitigation measures may be required, based on field observations.

2.6 WHALE TAIL ATTENUATION POND

The Whale Tail Attenuation Pond is the secondary contact water management basin on site. Contact water from surrounding infrastructure is pumped to the pond. From there, Whale Tail Attenuation Pond water can be pumped to either the IVR Attenuation Pond or the AsWTP, for treatment, if required, and discharge to approved final effluent locations within Whale Tail South or Kangislulik Lake. A 10-day notice prior to changing effluent discharge locations must be submitted to CIRNAC. The plant's treatment abilities were designed to remove TSS and arsenic. All piping and the discharge diffuser must be inspected prior to freshet, in order to have all installations in place to proceed with pumping and/or treatment activities during freshet. The pond water levels will be managed closely and inspected regularly.

2.7 WHALE TAIL DIKE SEEPAGE

Water from the Whale Tail Dike seepage is reporting to the WT Attenuation Pond through either a pumping system or by gravity. If water quality criteria are met, it is possible for the system to discharge directly to WTS, a 10-day notice to ECCC would be required. The system is not expected to be put in operation due to the current water quality.

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2.8 IVR ATTENUATION POND

The IVR Attenuation Pond is the main contact water management basin on site. Contact water from surrounding infrastructure is pumped to the pond. From there, water can be discharged to approved final effluent locations within Whale Tail South or Kangislulik Lake, or may be sent to the AsWTP, for treatment, if required, prior to discharge. A 10-day notice prior to changing effluent discharge locations must be submitted to CIRNAC. The plant's treatment abilities were designed to remove TSS and arsenic. All piping and the discharge diffuser must be inspected prior to freshet, in order to have all installations in place to proceed with pumping and/or treatment activities during freshet. The pond water levels will be managed closely and inspected regularly.

2.9 WHALE TAIL BULK FUEL STORAGE FACILITIES

The main fuel farm containments were built in 2019, and the underground genset secondary containment was built in 2021. All fuel tank farms will be monitored throughout freshet. Snow and ice accumulation within the fuel tank farms must be adequately managed to prevent overflow to the environment and/or damage to the fuel handling systems. The Energy and Infrastructure Department will advise the Environmental Department of their intent to pump the containment area once ice/snow begins to melt. Water samples will be taken in accordance with the Water License to ensure compliance prior to its release. A notice must be provided to the CIRNAC Inspector 10 days prior to this pumping activity. Once sample results have been obtained, the Environmental Department will advise the Energy and Infrastructure Department. If sample results permit, the pumping may begin to direct water to the tundra/ground in a way to prevent erosion. The volume of water pumped from secondary containment(s) will be track by the Energy and Infrastructure Department and/or Environment Department. In the event that the water sample results do not meet discharge criteria the water could be trucked in a tanker and transported to the Meadowbank site to be disposed of in the TSF.

2.10 HAUL ROAD CULVERTS AND BRIDGES

Daily inspections will be undertaken starting in May at all culverts and bridges along the Haul road to ensure that water during freshet is flowing freely and no erosion is occurring. If elevated TSS/Turbidity levels are observed sampling will occur and the results assessed. Turbidity barrier will be installed if required. The Mine department will also be advised if severe erosion/scouring is observed. In addition, snow and ice removal may be required to allow the water to flow as per design specifications. Daily inspections will be performed during the freshet period by the Environment department.

2.11 2023-2024 PAD CONSTRUCTIONS AND ROAD CULVERTS

Weekly inspections at the start of snowmelt will be required to monitor for potential erosion and sediment transport. Mitigation measures may be required to minimize transport of sediments towards water bodies. See below for a list of such constructions:

- Underground Emulsion transfer pads;
- Nemo Lake pad;
- Kangislulik Lake road; and



- Qamanittuaq SANA crusher pad.

In addition to the pads, some culverts around site drain towards water bodies. Daily inspections will be undertaken by the Environment Department starting in May for all culverts around the mine site to ensure the water during freshet is flowing freely and no erosion is occurring. If elevated TSS/Turbidity levels are observed sampling will occur and the results assessed. Turbidity control equipment will be installed if required. Snow and ice removal may be required to allow the water to flow as per design specifications.

2.12 UNDERGROUND WRSF WATER COLLECTION SYSTEM

The Underground WRSF Water Collection System was built in 2019 to collect any water running off the underground infrastructure, and direct runoff water into GSP1. Steaming of culverts may be necessary if snow or ice blockage are identified prior to the start of freshet. Weekly inspection will be required during freshet to validate operationality and liner integrity of collection system.

3 ADAPTIVE WATER MANAGEMENT STRATEGY

An Adaptive Water Management Plan was developed to document specific mitigation measures and associated management actions to be taken when specified thresholds are exceeded. Mitigation measures may include special studies, operational changes, revised or new water and waste management systems, structures and/or facilities, or implementing mitigation activities to prevent, stabilize or reverse a change in environmental conditions or to otherwise protect the receiving environment. The Adaptive Management Plan is to be reviewed periodically to account for the dynamics of mine construction and operation and adjusted as needed.

Various level thresholds were identified for surface water management, based on the capacity of different water management infrastructure to retain water on site. The objective is to trigger management strategy actions based on the capacity of these structures. The main management response is based on increasing the discharge rate especially when water is meeting effluent discharge criteria.

4 SNOW MANAGEMENT

A snow management procedure has been developed internally in 2020 and will be updated annually. Refer to Appendix 2 for the snow management map. Temporary snow storage dumps and snow accumulation areas of concern were identified on a map. Removal will be managed accordingly.



APPENDIX 1

2024 Freshet Action Plan Procedure





Section	Area of Concern	Role/Action	Responsibilities	Dates
2.1	MINING PITS AND PIT W	ALLS		
2.1	Mining Pit and Pit walls - General	Clean all ice, mud and snow on all permanent ramps, jump ramps, etc.	Mine Operations	Before May
		2) Check and service all pumps.	E&I (Energy and Infrastructure) and Maintenance	Before May
		3) Check that all piping systems starting from the pit leading to the Attenuation ponds are free of ice by validating pumping values (if pumping systems active) and/or performing an air test in the pipe with a compressor.	E&I/Mine Operations	Before May
2.2	WHALE TAIL WASTE RO	OCK STORAGE FACILITY		
2.2.	WT WRSF Inspection	Weekly inspection around the WRSF perimeter to identify any seepage.	Env. Department	May - as soon as freshet starts until freeze up
		Pump if required from the WRSF periphery to WRSF Pond	E&I	May - as soon as freshet starts until freeze up
		If seepage observed notify Env Department AND sample for Water License Parameters.	Env. Department	May - as soon as freshet starts until freeze up





	WRSF Pond	Perform daily inspections or inspections as required, and keep records.	Env. Department	May - until freshet complete and after rain events
		Maintain WRSF Pond as dry as possible	E&I	May - until freeze up
		Pump any water reporting to the WRSF downstream water collection system – Volumes required to be documented	E&I/Engineering	May - until freeze up
		Sample upstream and downstream	Env. Department	May - until freeze up
		Report any discharge of TSS to Mammoth Lake to ECCC/NWB (if grab > 30 mg/L).	Env. Department	May - until freshet complete and after rain events
2.3	IVR WASTE ROCK STOR	RAGE FACILITY		
2.3.	IVR WRSF Inspection	Weekly inspection around the IVR WRSF perimeter to identify any seepage.	Env. Department	May - as soon as freshet starts until freeze up
		Pump if required from the IVR WRSF periphery to IVR attenuation pond	E&I	May - as soon as freshet starts until freeze up
		If seepage observed notify Env Department AND sample for Water License Parameters.	Env. Department	May - as soon as freshet starts until freeze up





2.4	SOUTH WHALE TAIL DIV	ERSION CHANNEL		
2.4	South Whale Tail Diversion Channel	Perform daily inspections or inspections as required, and keep records.	Env. Department	May - until freshet complete and after rain events
		Install mitigation measures, if needed (elevated TSS observed), and maintain	Env. Department	May - until freshet complete and after rain events
2.7		Sample monitoring for TSS, if excess turbidity observed - use external lab.	Env. Department	May - until freshet complete and after rain events
		Report any discharge of TSS to Mammoth Lake to ECCC/NWB (if grab > 30 mg/L).	Env. Department	May - until freshet complete and after rain events
2.5	IVR DIVERSION CHANNE	EL		
2.5	IVR Diversion Channel	Perform daily inspections or inspections as required, and keep records.	Env. Department	May - until freshet complete and after rain events
		Install mitigation measures, if needed (elevated TSS observed), and maintain	Env. Department	May - until freshet complete and after rain events
		Sample monitoring for TSS, if excess turbidity observed - use external lab.	Env. Department	May - until freshet complete and after rain events





		4) Report any discharge of TSS to Mammoth Lake to ECCC/NWB (if grab > 30 mg/L).	Env. Department	May - until freshet complete and after rain events
2.6	WHALE TAIL ATTENUATI	ON POND		
	Whale Tail Attenuation Pond	Set-up pumping of the WT Attenuation Pond to prevent water from flowing into the pit area, keeping track of all daily volumes	E&I	At all time
2.6		Notify Environmental Department before any environmental discharge.	E&I	At all time
		3) Inspect all piping and discharge diffuser	E&I	May
2.8	IVR ATTENUATION PONE			
	IVR Attenuation Pond	Set-up pumping of IVR Attenuation Pond through the AsWTP, keeping track of all daily volumes	E&I	At all time
2.8		Notify Environmental Department before any environmental discharge.	E&I	At all time
		3) Inspect all piping and discharge diffuser	E&I	May
2.9	FUEL TANK FARMS			
2.9	Bulk Fuel Storage Facilities (Main Tank Farm, Power House,	E&I Dept to advise Env Dept in advance of intent to pump once ice melts in containment area.	E&I and Env. Department	Probably mid- June and September





	Underground Gensets and Dyno)	Sample water in accordance with Water License to ensure compliance with limits prior to release.	Env. Department	Probably mid- June and September
		Provide notice to Inspector 10 days prior to pumping.	Env. Department	Probably mid- June and September
		Advise Energy and Infrastructure Dept if pumping can begin based on sample results.	Env. Department	Probably mid- June and September
		5) Pump to tundra/ground or Meadowbank TSF. NOTE: The water cannot be pumped out to the tundra if it does not meet the Water License criteria.	E&I	Probably mid- June and September
2.10	WHALE TAIL HAUL ROA	D CULVERTS AND BRIDGES		
		Perform daily inspections or inspections as required,	Env. Department	May and after rain
		and keep records		events
2.10	Recent pad and road	and keep records 2) Sample for TSS and Turbidity if elevated TSS observed.	Env. Department	events May - until freeze up
2.10	Recent pad and road constructions	Sample for TSS and Turbidity if elevated TSS	Env. Department Env. Department	May - until freeze
2.10	•	Sample for TSS and Turbidity if elevated TSS observed. 3) Notify E&I Dept & the mine department if severe	·	May - until freeze up May - until freeze



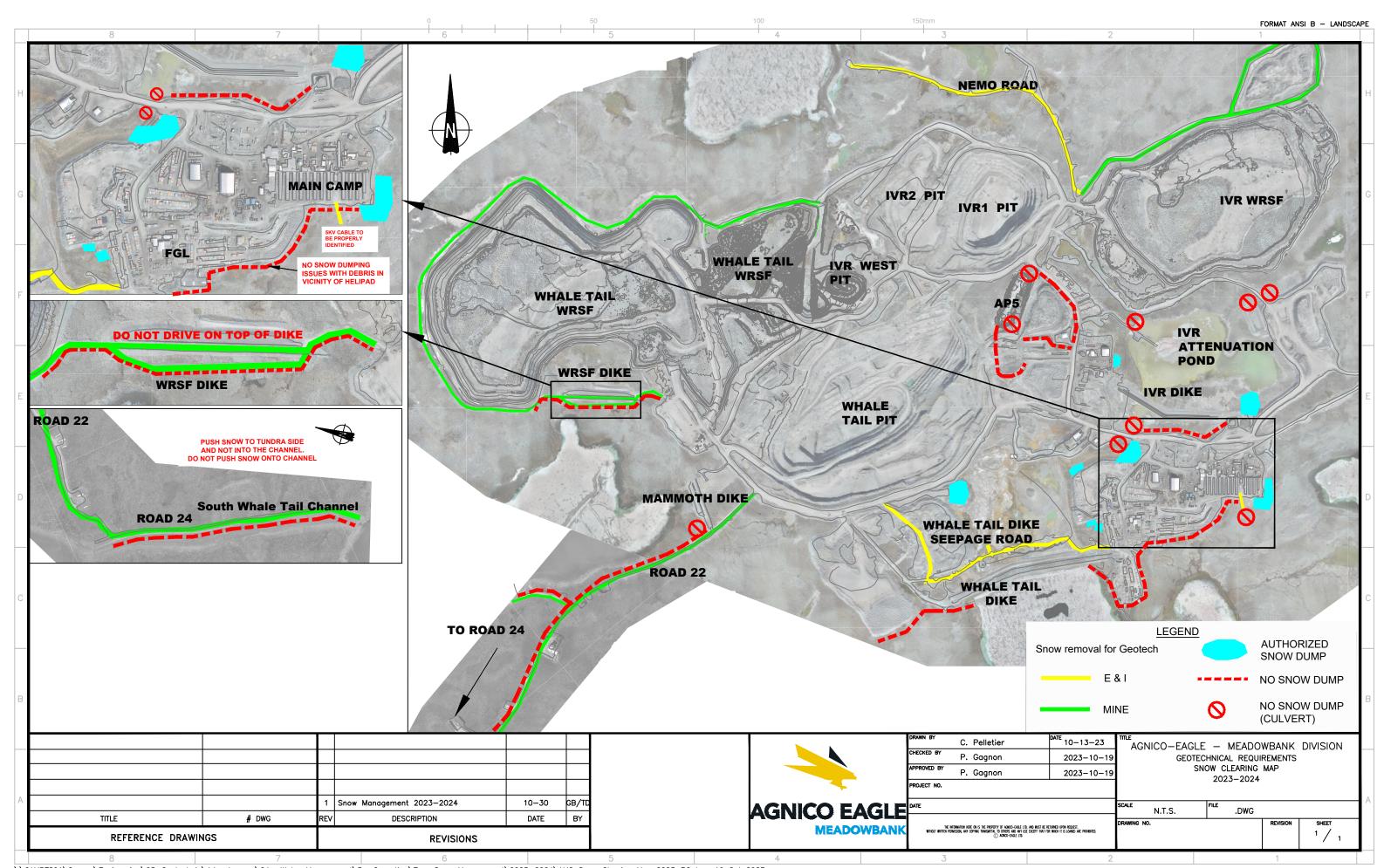


		Perform daily inspections or inspections as required, and keep records	Env. Department	May and after rain events
		Weekly inspection of toes of constructions built in the last year.	Env. Department	May and after rain events
2.11	Recent pad and road constructions	Sample for TSS and Turbidity if elevated TSS observed.	Env. Department	May - until freeze up
		Notify E&I Dept if severe erosion/scouring observed - for repair action.	Env. Department	May - until freeze up
		5) Install mitigation measures if required.	Env. Department	May - until freeze up



APPENDIX 2

2023-2024 Snow Management Map





APPENDIX 3

2024 Freshet flowchart and plan view

Whale Tail Mine Freshet Detailed Flowsheet - 2024

