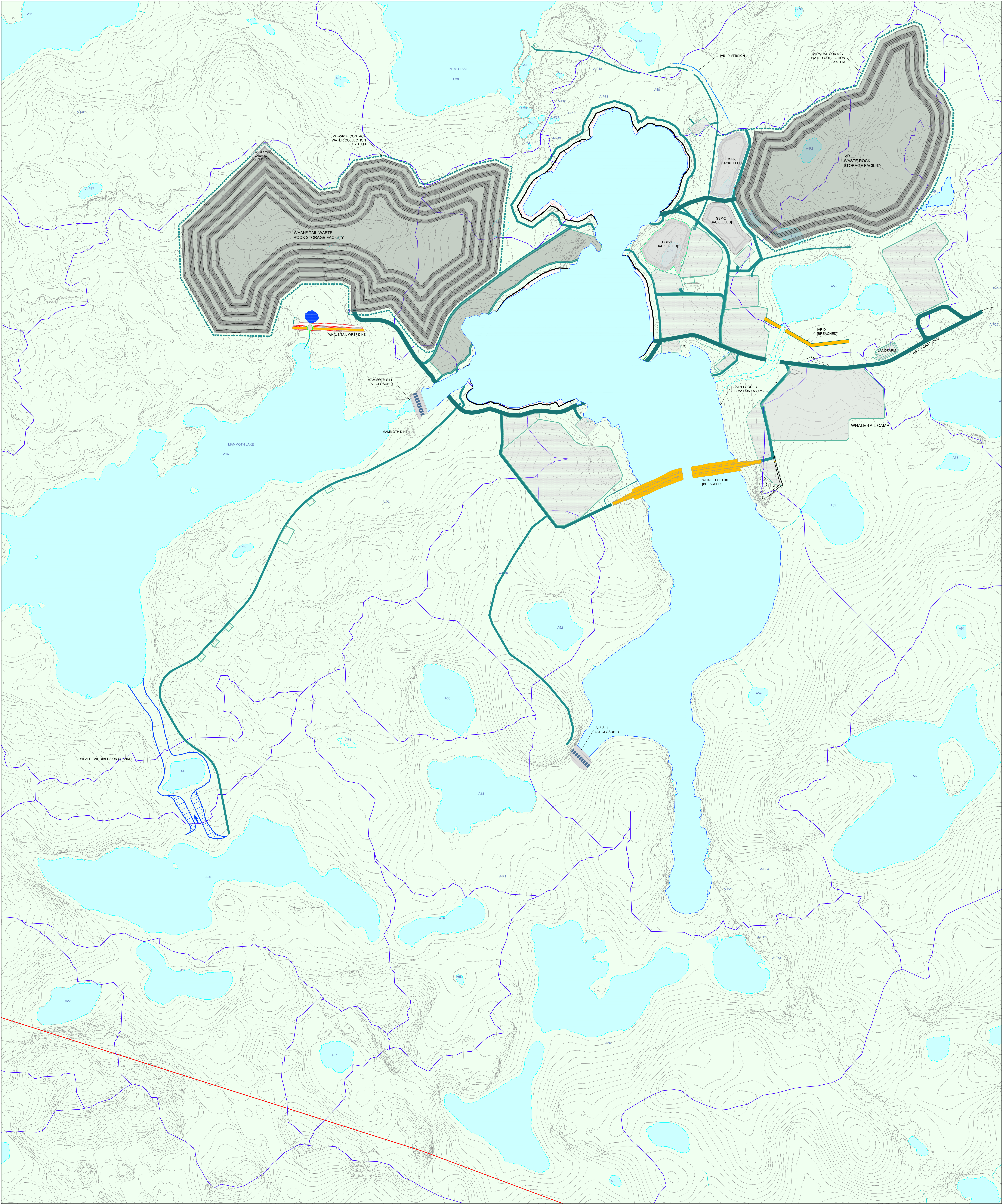




LEGEND

WATERSHED

ATTENUATION POND

LAKE WATER

OPEN PIT

HAUL ROAD, LARGE WIDE

HAUL ROAD, SINGLE LANE

SERVICE ROAD

ROAD, SALT PROTECTION

ROCK PILE

WATER POND

PAD

BUILDING

SILL

WEIR

NOTES GÉNÉRALES / GENERAL NOTES

TITRE / TITLE	# DWG	REV	DESCRIPTION	DATE	PAR BY
DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS			REVISIONS		

AMARUQ
PROJECT

DESIGNED BY JOCELYN CRETE	DATE 2019-05-02	TITLE / TITLE AGNICO EAGLE — MEADOWBANK DIVISION AMARUQ MINE PROJECT 005 — SITE PREPARATION 210 GENERAL ARRANGEMENT AMARUQ MINE SITE ARRANGEMENT — PERMITTING
CHECKED BY J. MOSQUERA	DATE 2019-05-02	
APPROVED BY		
PROJECT NO. 6117		
DATE		
EAGLE PROJECT 2042 POST CLOSURE		
SCALE NTS	FIGURE FILE	REVISION v8
		SHEET / SHEET 1 / 1

FILE NO.

APPENDIX C

**Pit and Underground Elevation-Storage-
Area Relationships**

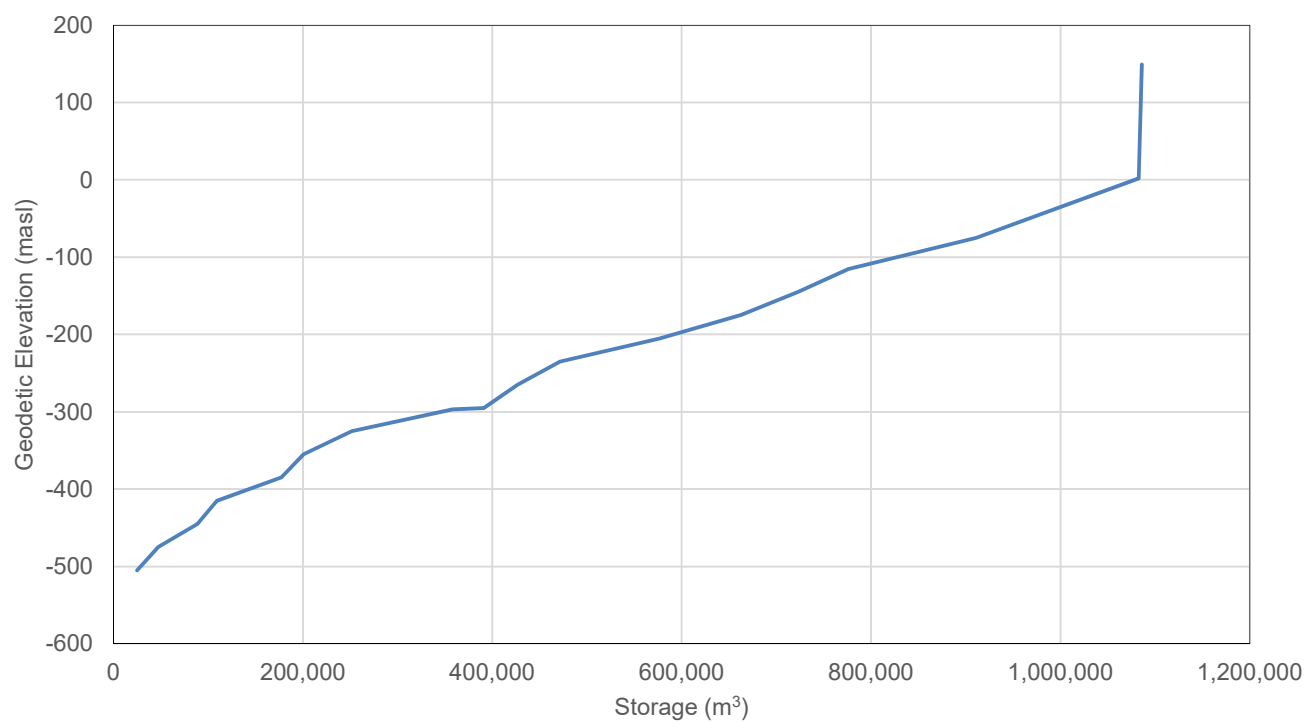


Figure C-1: Derived Elevation-Storage Relationship (Underground Mine [Whale Tail])

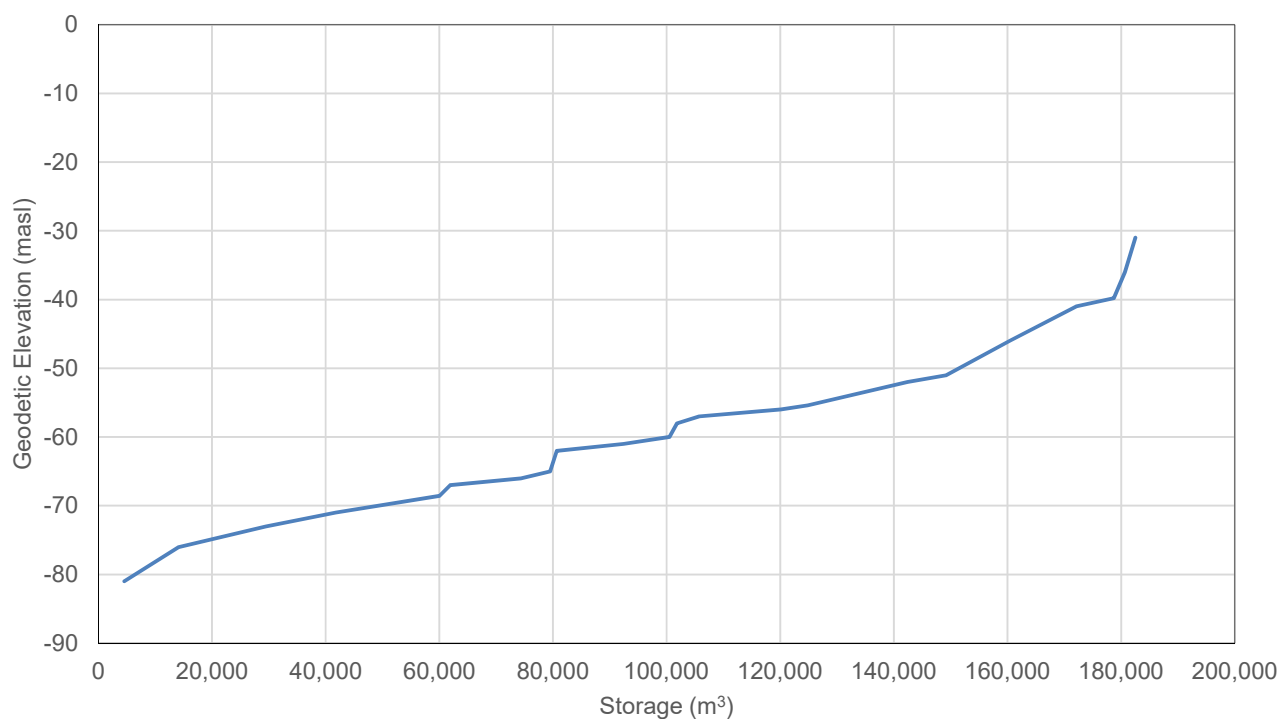


Figure C-2: Derived Elevation-Storage Relationship (Underground Mine [IVR])

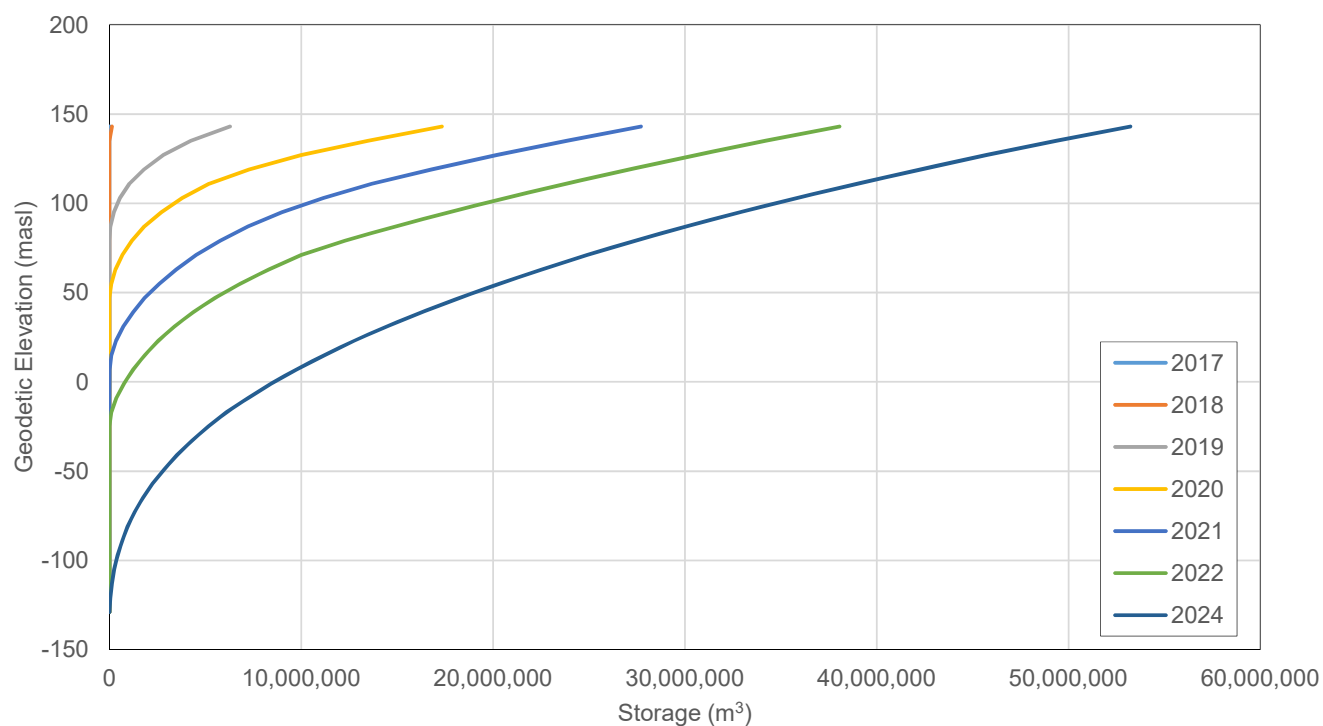


Figure C-3: Derived Elevation-Storage Relationship (Whale Tail Pit)

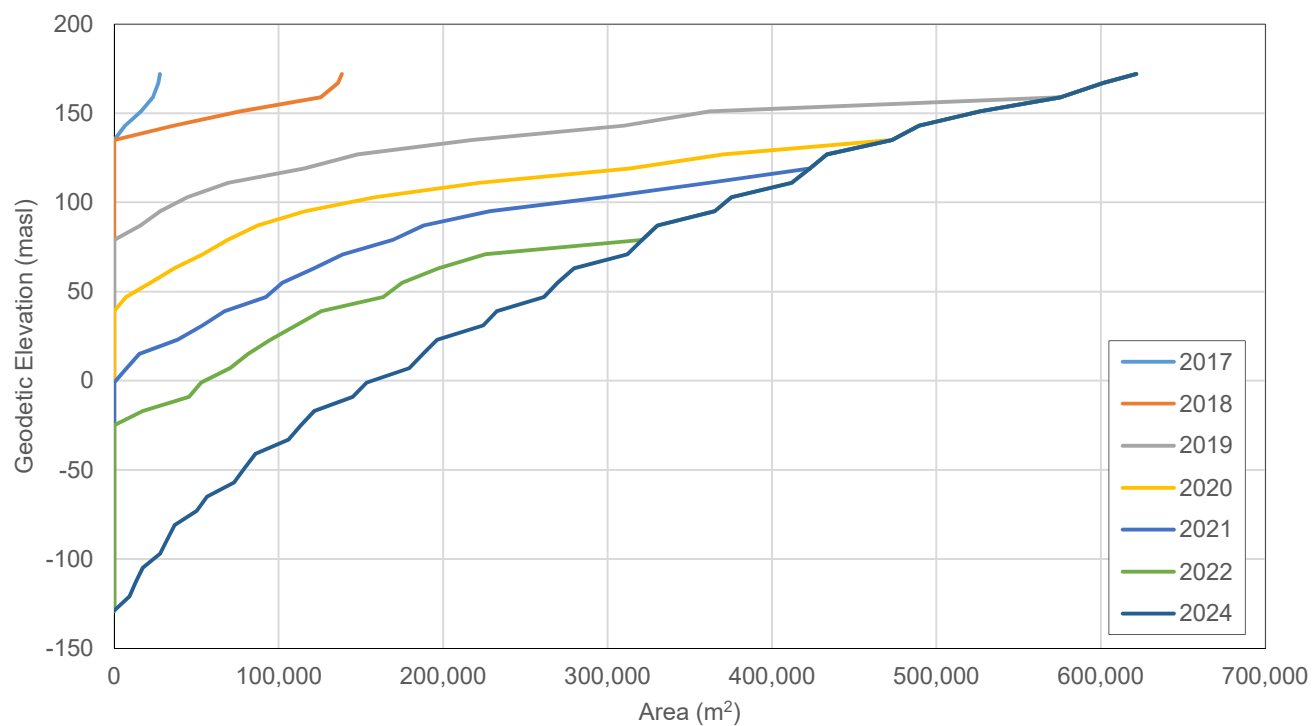


Figure C-4: Derived Elevation-Area Relationship (Whale Tail Pit)

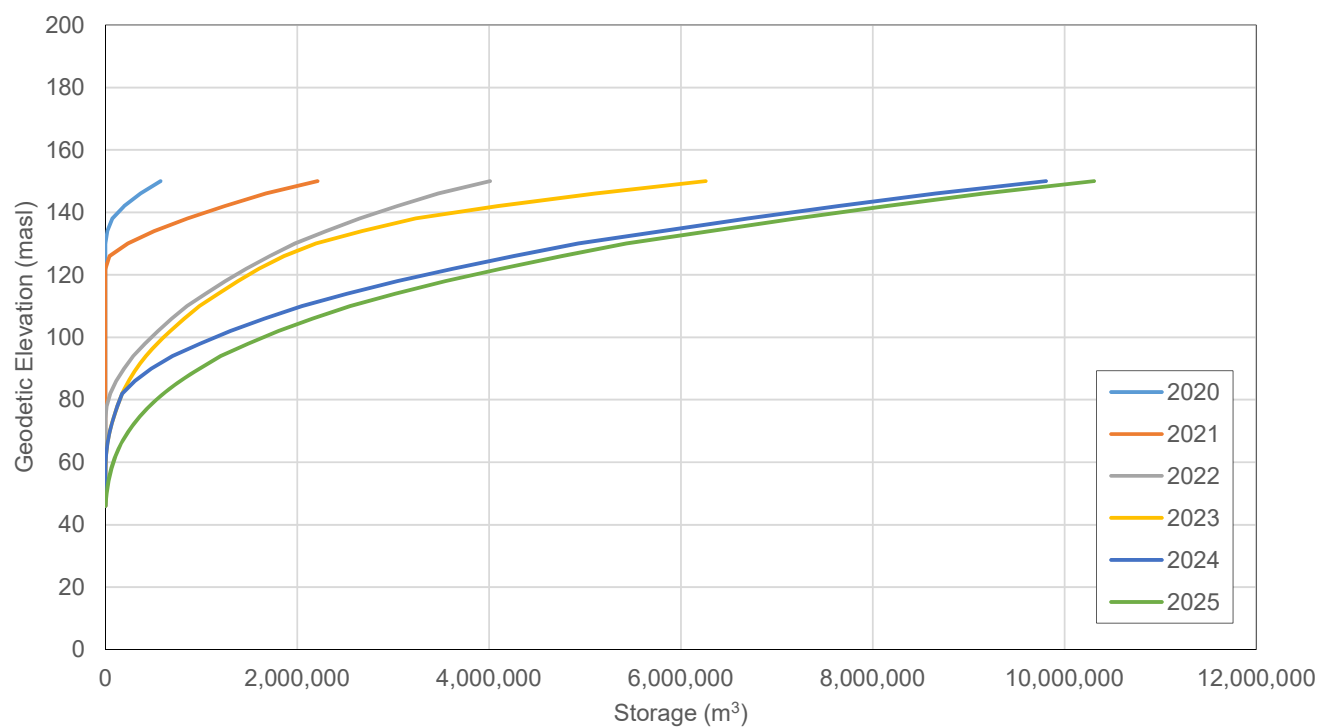


Figure C-5: Derived Elevation-Storage Relationship (IVR Pit)

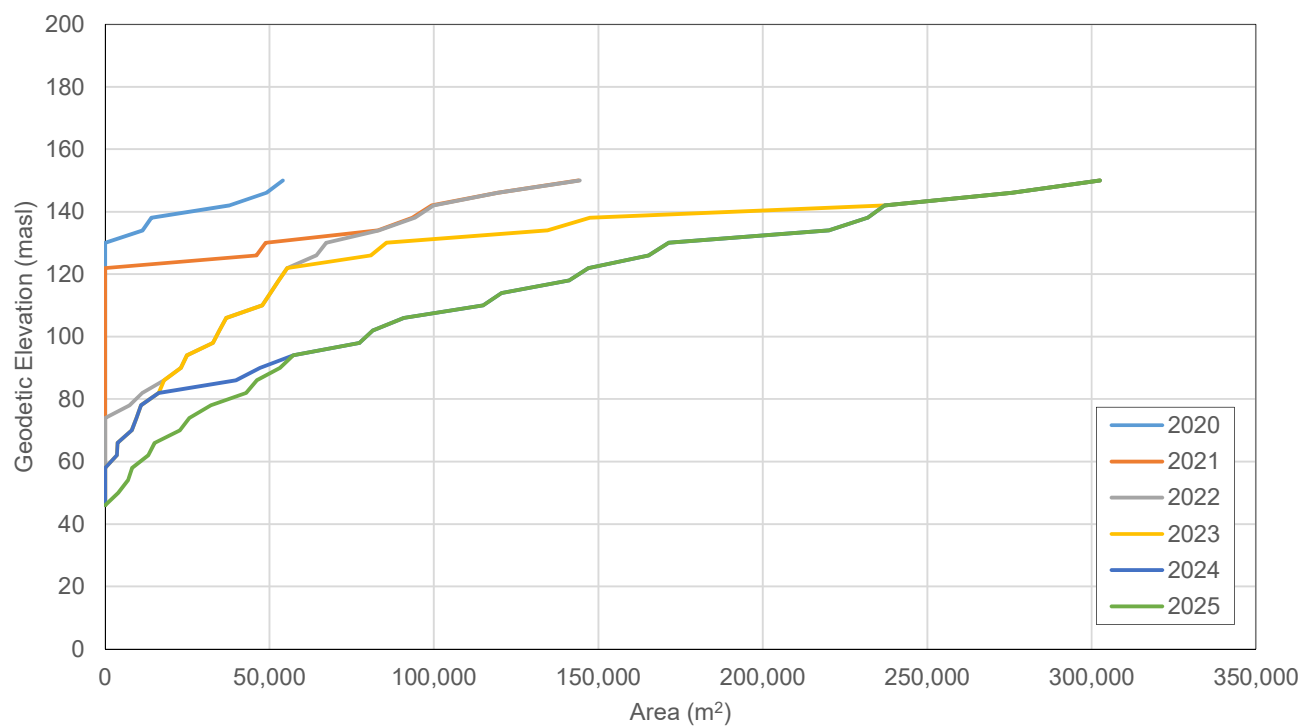


Figure C-6: Derived Elevation-Area Relationship (IVR Pit)

APPENDIX D

Pond Elevation-Storage-Area Relationships

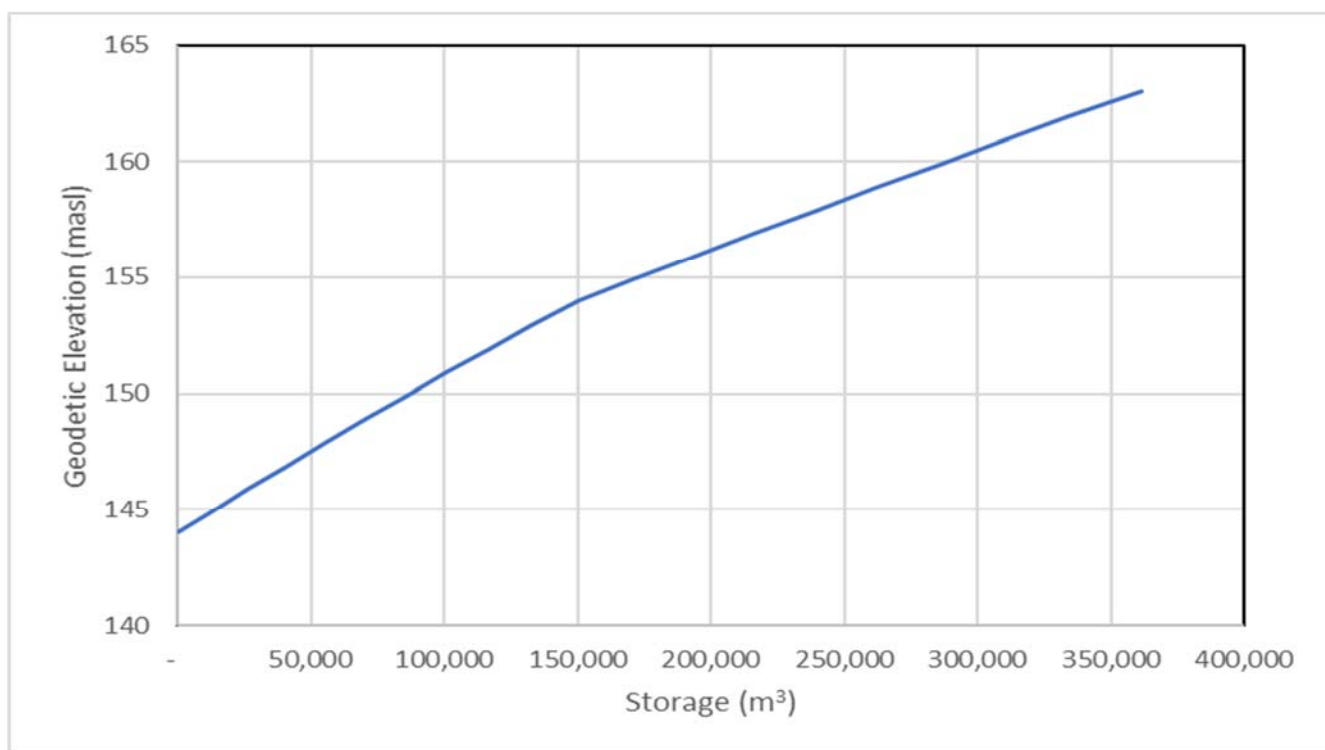


Figure D-1: Derived Elevation-Storage Relationship – GSP-1

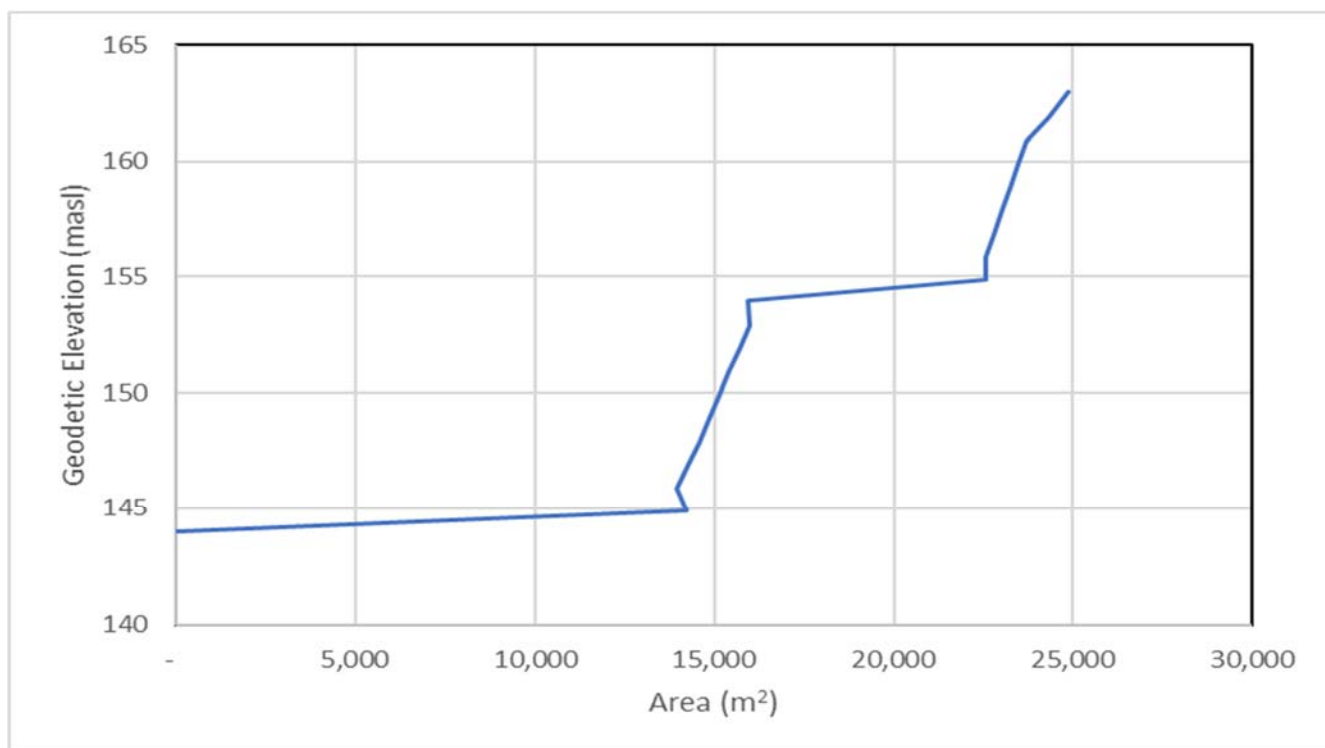


Figure D-2: Derived Elevation-Area Relationship - GSP-1

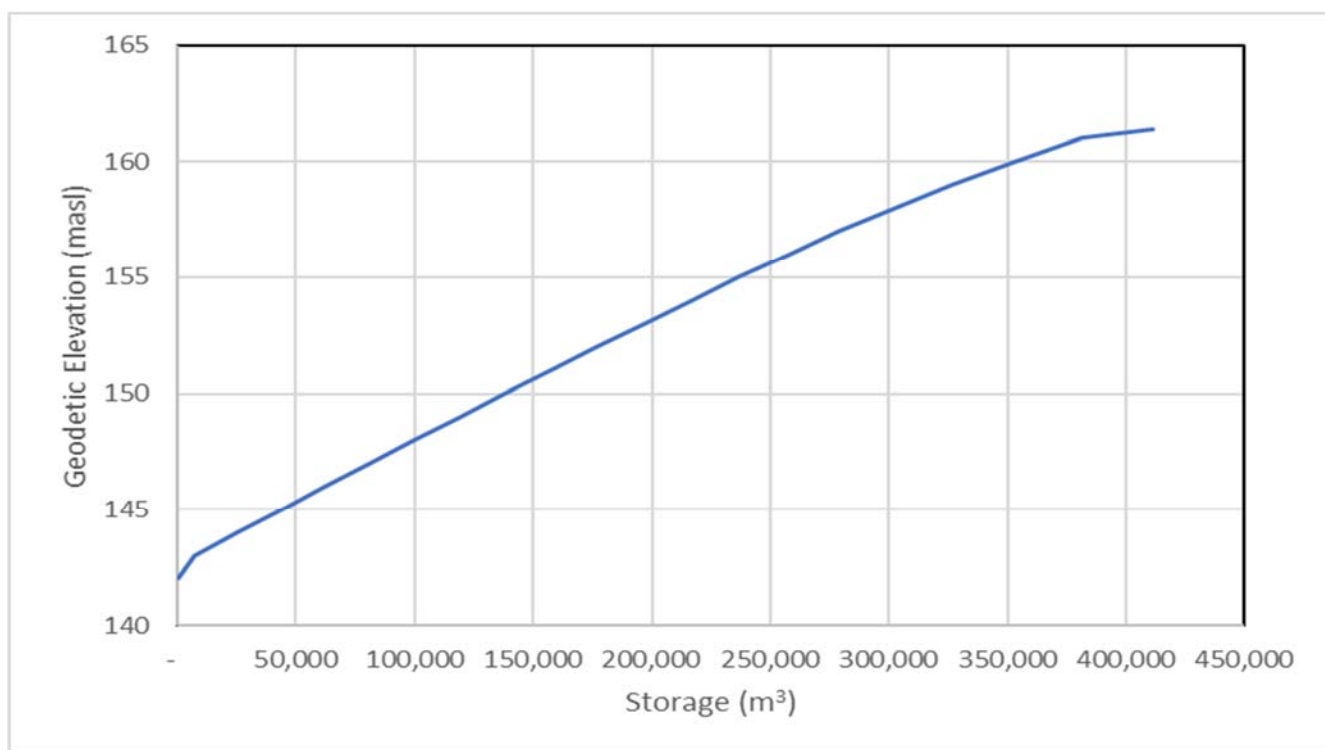


Figure D-3: Derived Elevation-Storage Relationship – GSP-2

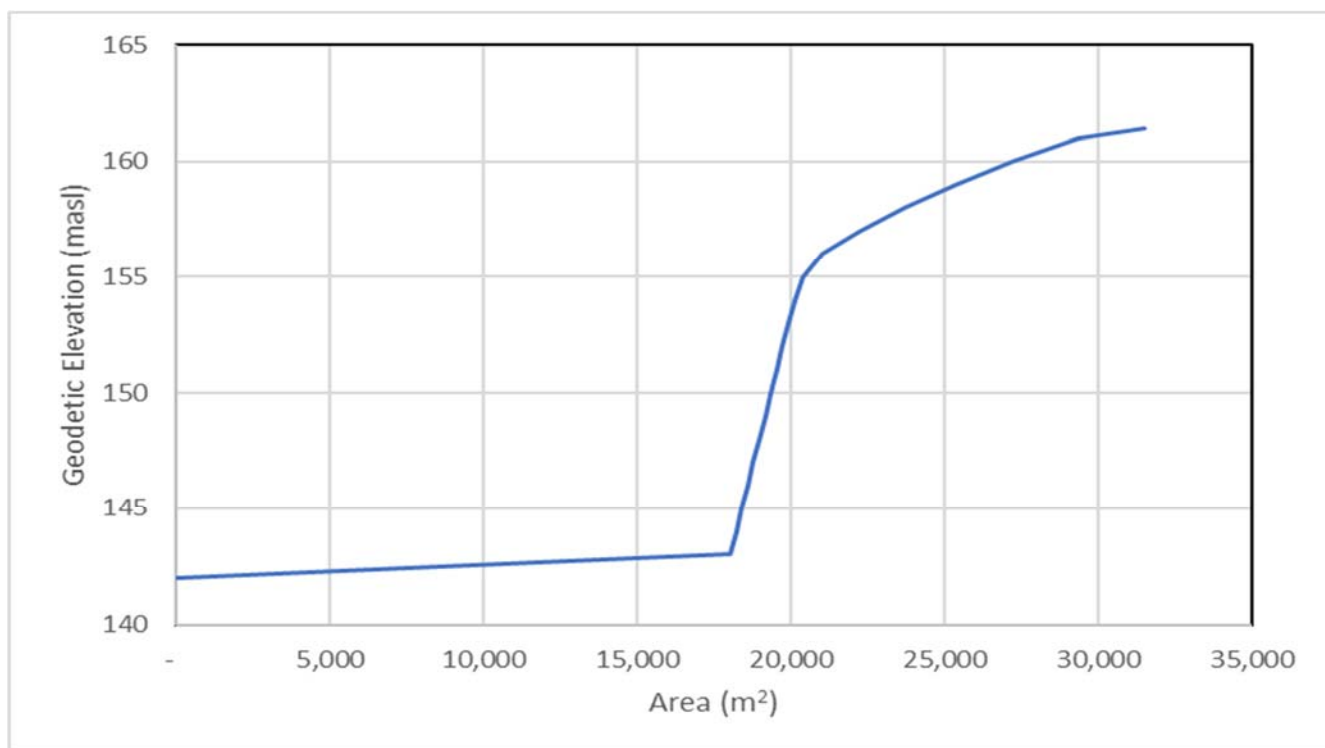


Figure D-4: Derived Elevation-Area Relationship – GSP-2

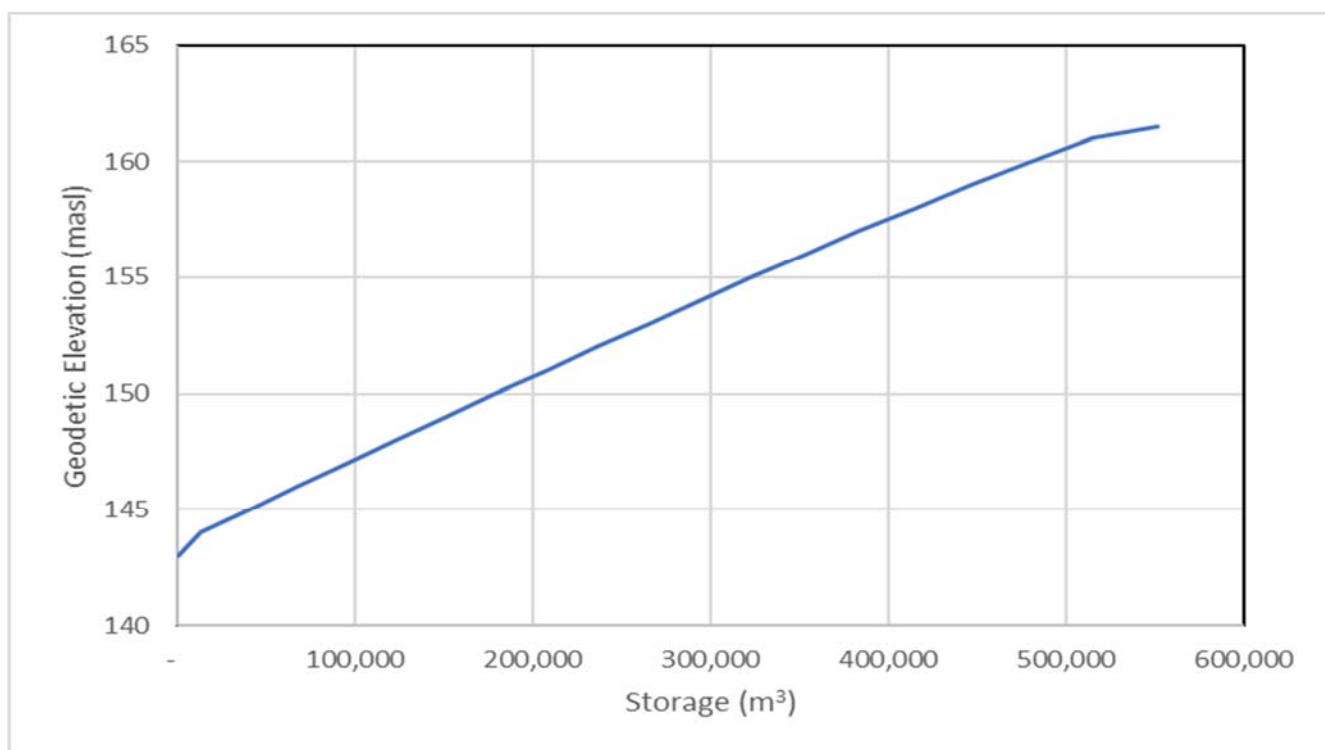


Figure D-5: Derived Elevation-Storage Relationship – GSP-3

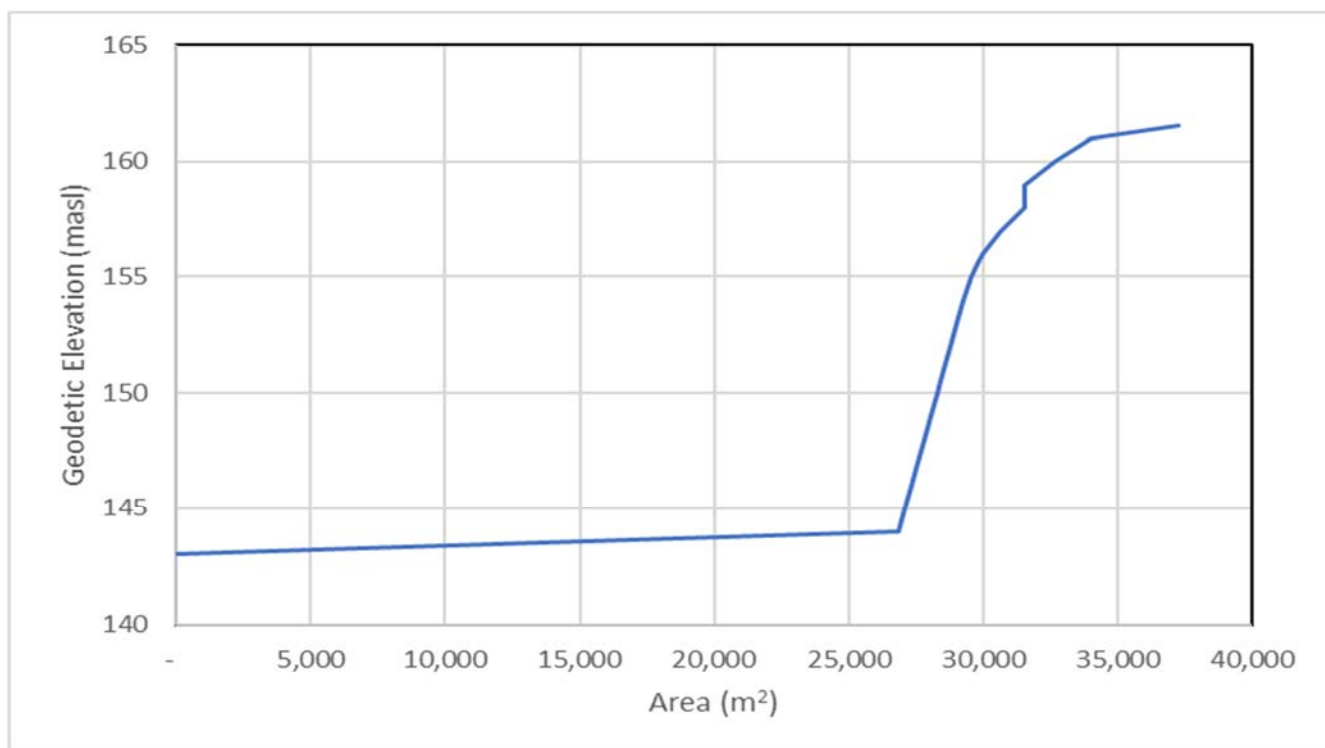


Figure D-6: Derived Elevation-Area Relationship – GSP-3

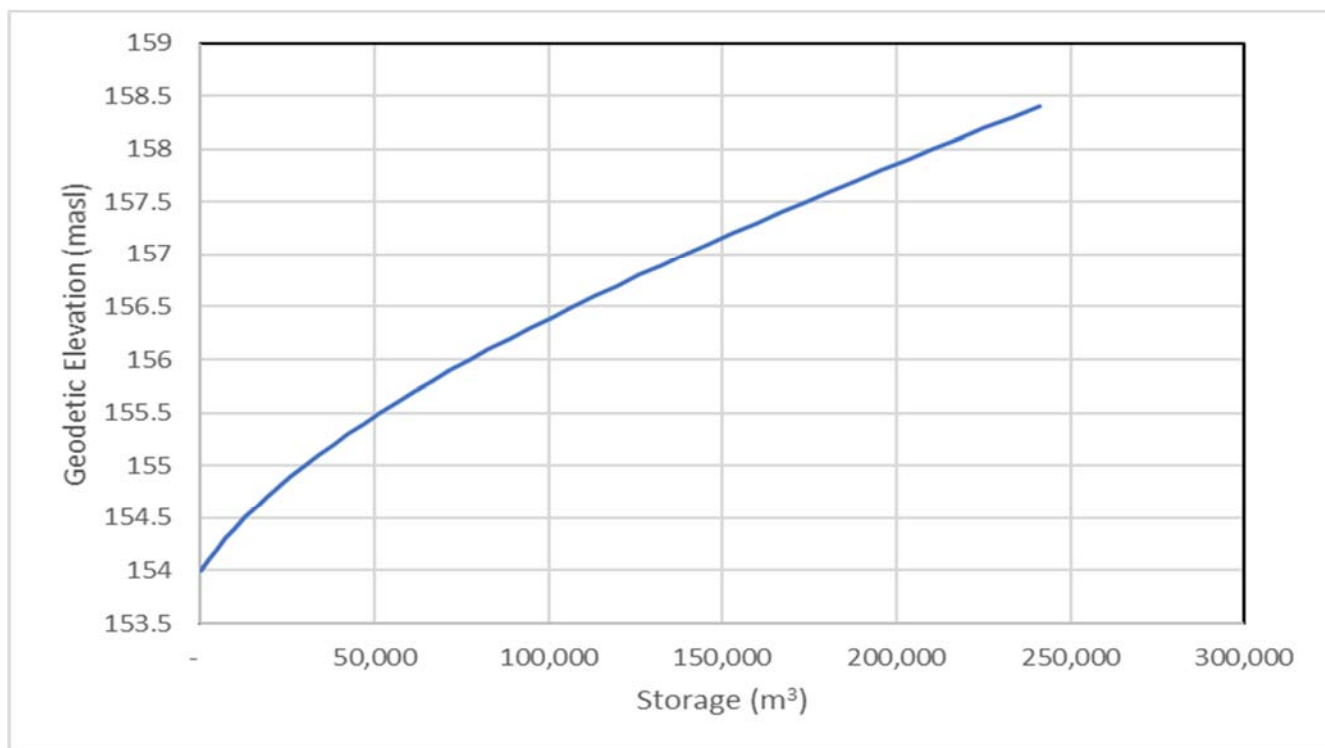


Figure D-7: Derived Elevation-Storage Relationship (Whale Tail WRSF Pond)

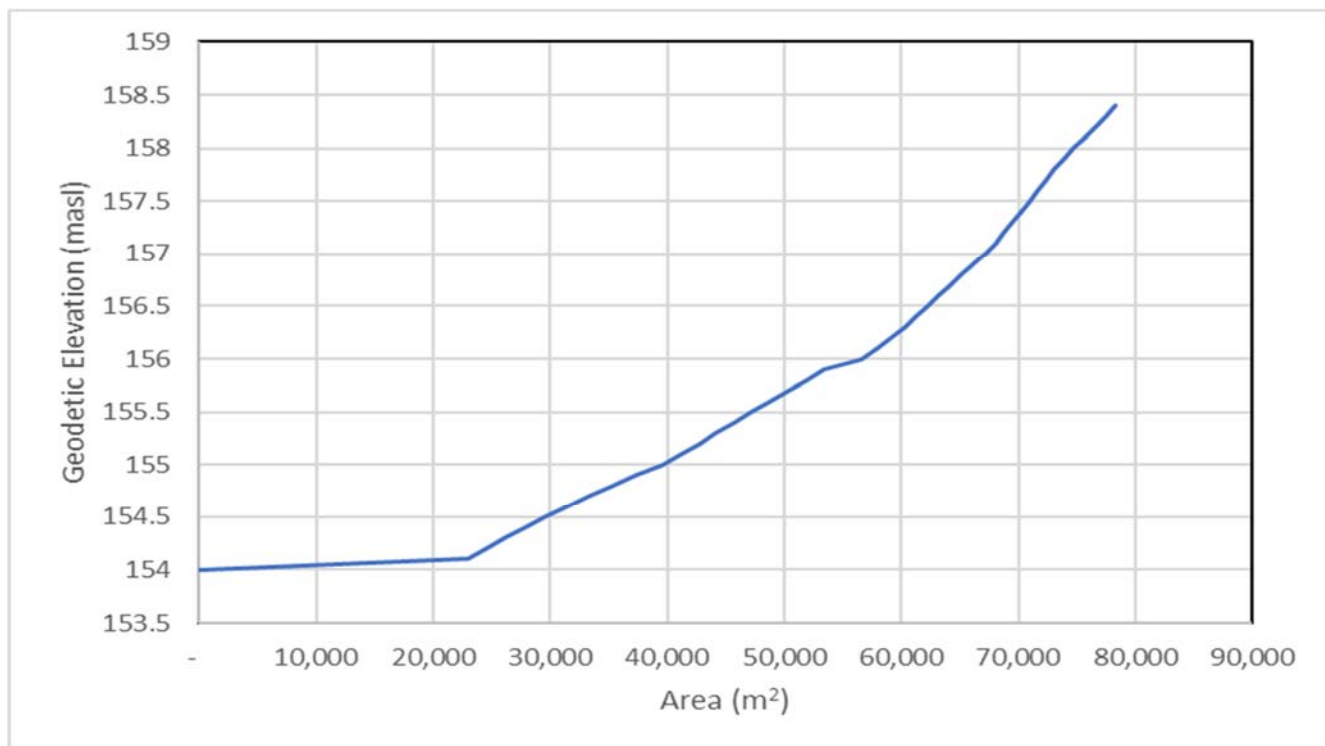


Figure D-8: Derived Elevation-Area Relationship (Whale Tail WRSF Pond)

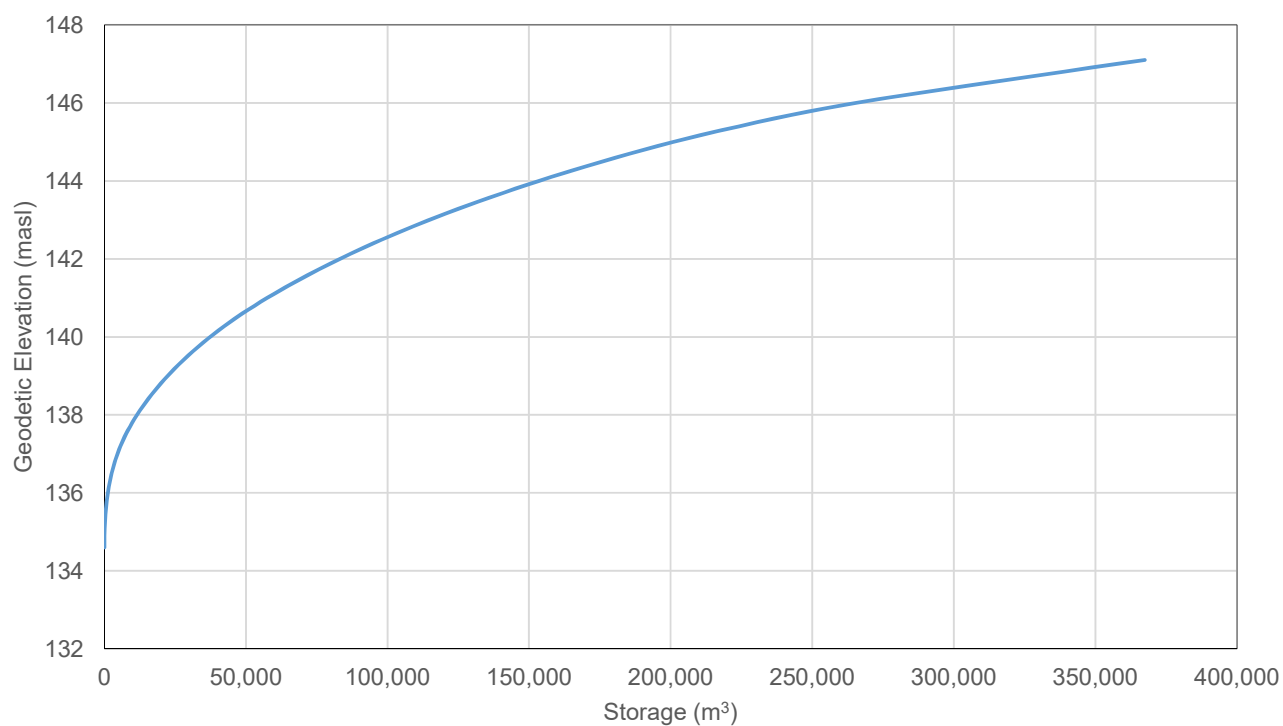


Figure D-9: Derived Elevation-Storage Relationship (Whale Tail Attenuation Pond)

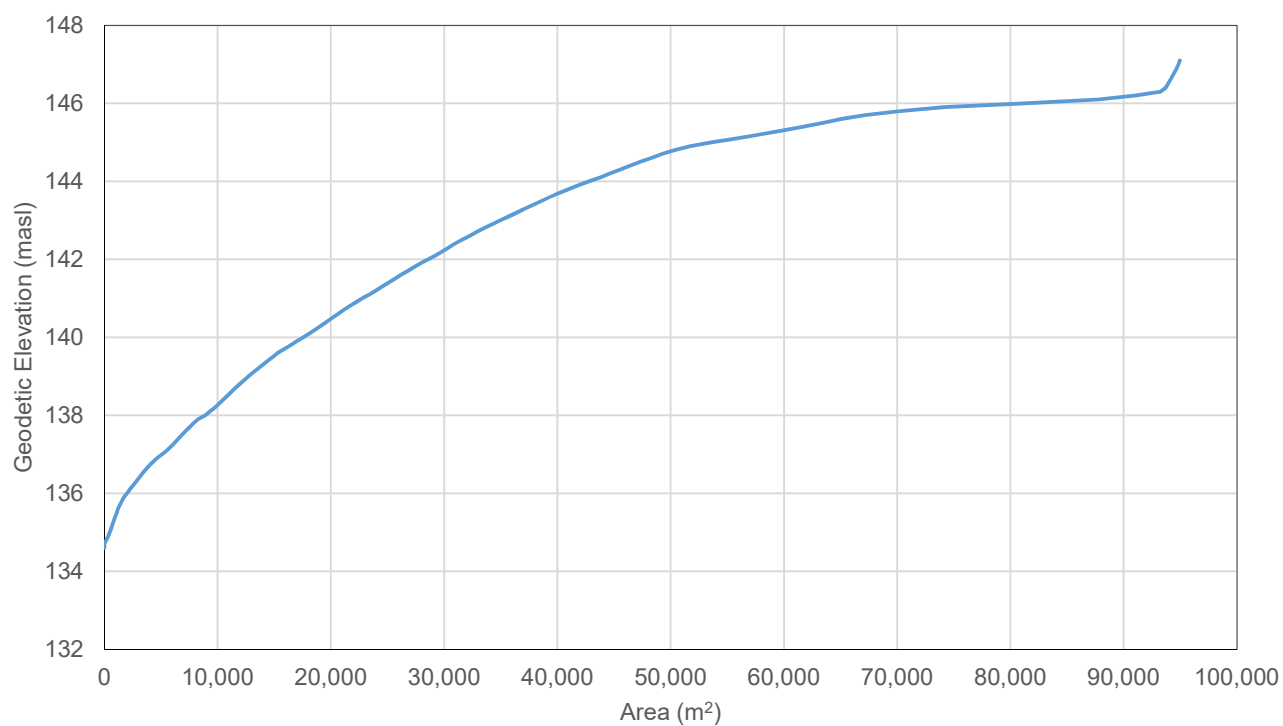


Figure D-10: Derived Elevation-Area Relationship (Whale Tail Attenuation Pond)

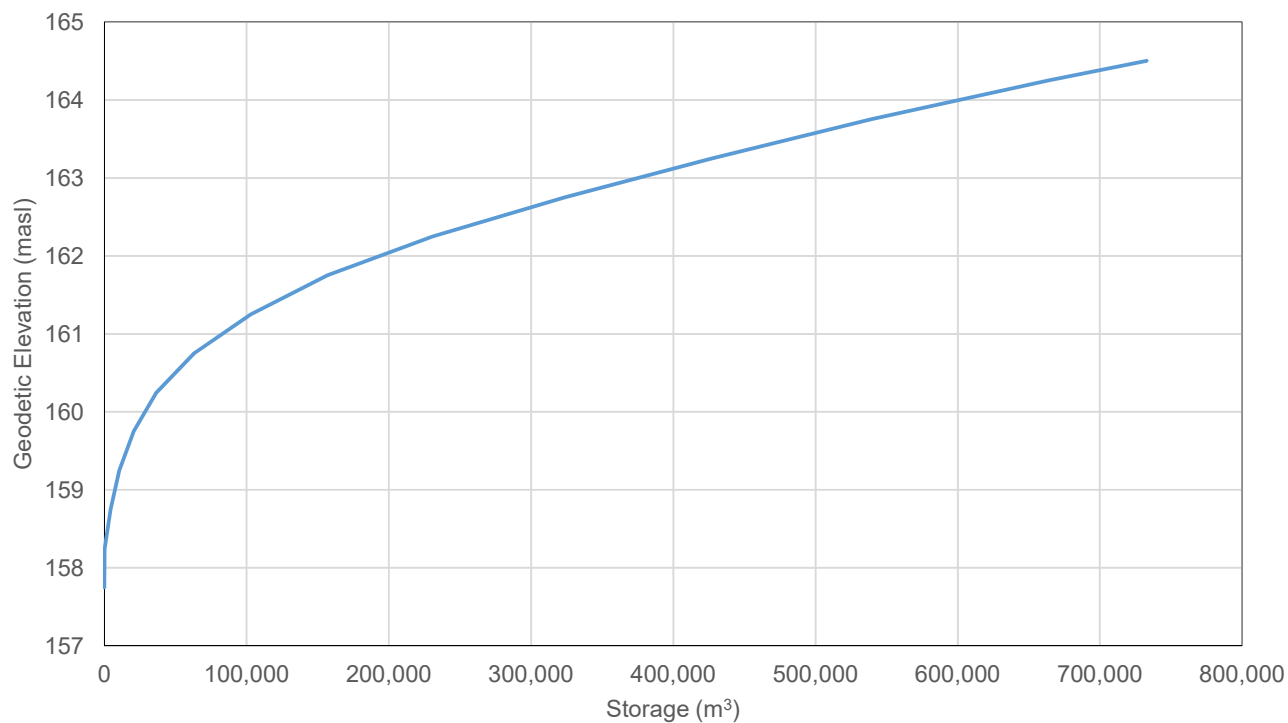


Figure D-11: Derived Elevation-Storage Relationship (IVR Attenuation Pond)

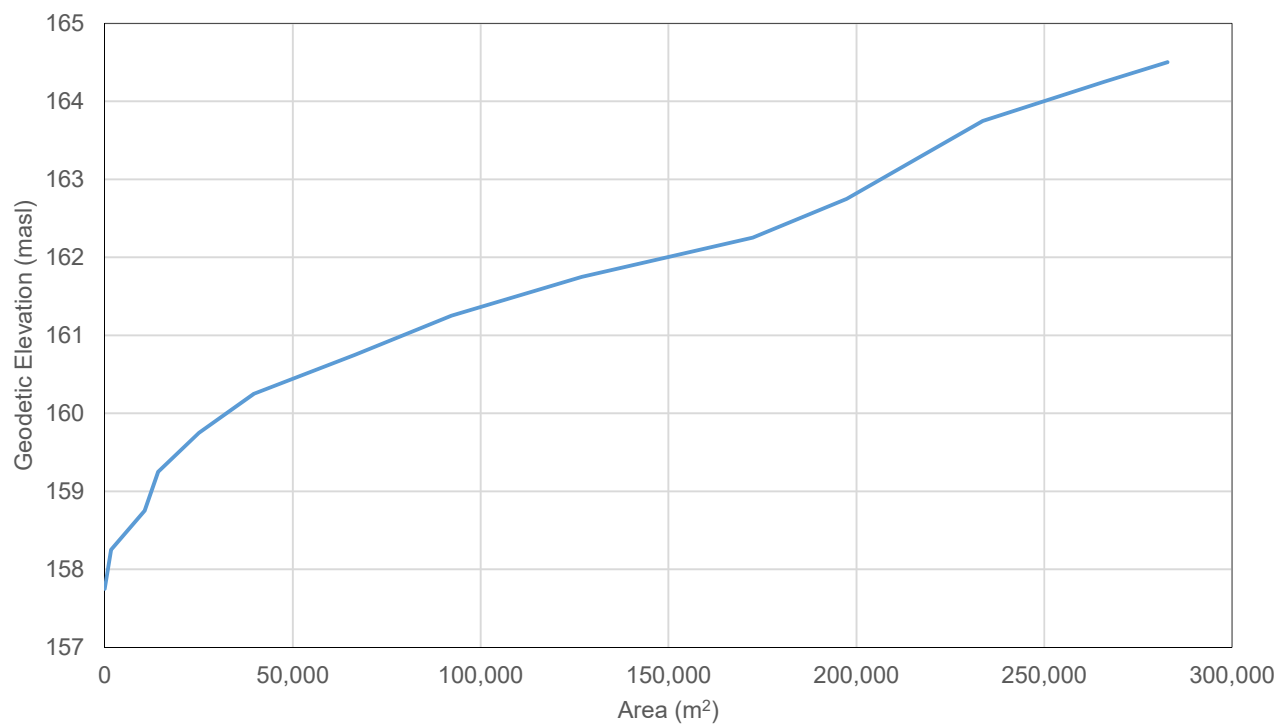


Figure D-12: Derived Elevation-Area Relationship (IVR Attenuation Pond)

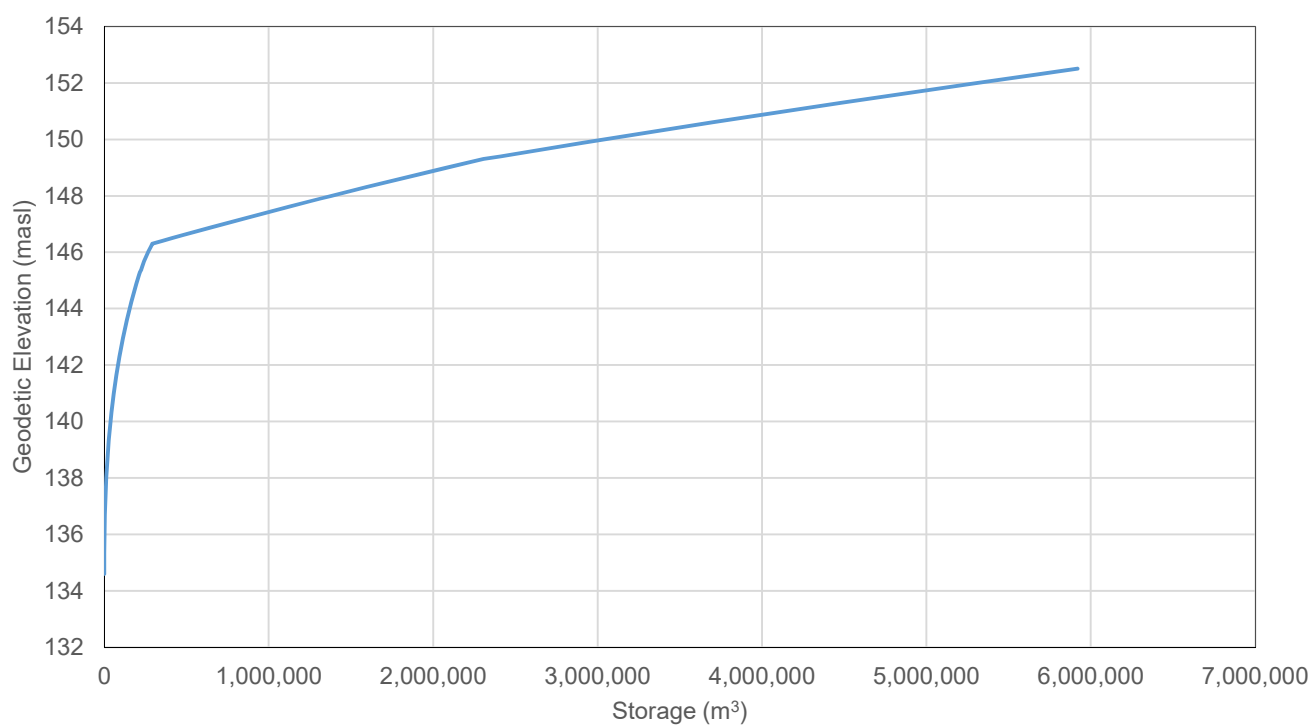


Figure D-13: Derived Elevation-Storage Relationship (Whale Tail Lake [North Basin] above the Whale Tail Attenuation Pond)

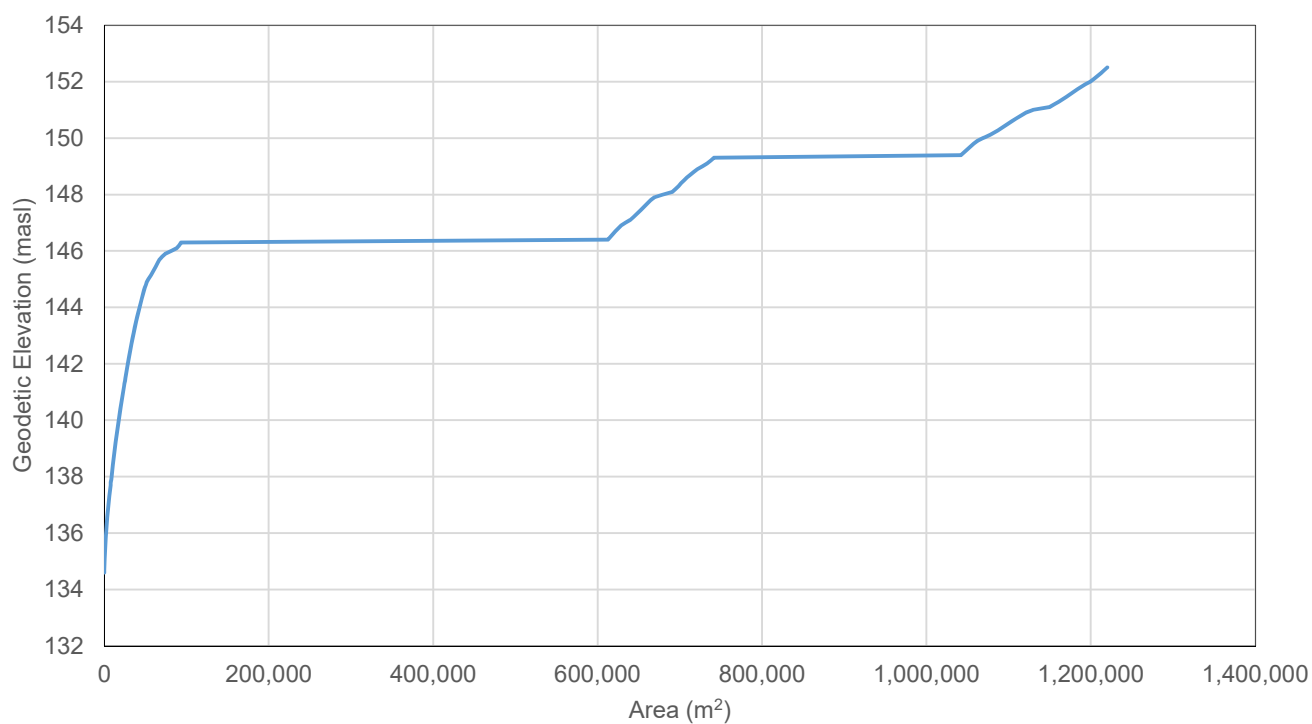


Figure D-14: Derived Elevation-Area Relationship (Whale Tail Lake [North Basin] above the Whale Tail Attenuation Pond)

APPENDIX E

O'Kane Landform Water Balance
Modelling of Whale Tail and IVR
WRSF

Memorandum

To: Michel Groleau – Nunavut Permitting Lead, Agnico Eagle Mines Ltd.

From: Gillian Allen, Geoenvironmental Engineer

Cc: Jenyfer Mosquera – Agnico Eagle Mines Ltd.

Our ref: 948-011-M-006 Rev3

Date: May 10, 2019

Re: **Agnico Eagle Mines Ltd. - Landform Water Balance Modelling of Whale Tail and IVR WRSF**

O'Kane Consultants Inc. (Okane), is currently undertaking thermal modelling of the waste rock storage facilities (WRSFs) at Agnico Eagle Mines Ltd.'s (AEM's) Amarug project. Thermal modelling will assist in developing the expected seasonal active layer thickness under climate change conditions, as well as determine if permafrost conditions within the WRSFs are sustainable under climate change conditions. The ultimate objective of the project is to demonstrate the physical and chemical stability of the Whale Tail and IVR WRSFs while optimizing risk and cost for AEM.

As part of this objective, a landform water balance was completed, including estimates of runoff, interflow, and basal seepage rates for different slopes and aspects of the WRSF (if applicable). The following memorandum summarizes the results of the landform water balance. A separate detailed modelling report summarizes specific modelling background and methodology (Okane, 2019¹).

Conceptual Hydrologic Model of Amarug WRSFs

The following summarizes the conceptual model of the hydrologic regime at the Whale Tail and IVR WRSFs:

- The existing proposed thermal cover system (4.7 m of NAG/NML material) is not expected to promote runoff / interflow from the cover system due to sufficient infiltration capacity of the waste rock and cover system materials as a result of the expected coarse texture of materials.
- High infiltration rates will result in gradually (over several years) increasing interflow and/or basal flow reporting to WRSF collection ponds as the WRSF is constructed and reaches its final extent.
- Slopes are expected to be more susceptible to infiltration entering waste rock prior to freeze back compared to the plateau.

¹ O'Kane Consultants Inc. 2019. Agnico Eagle - Detailed Thermal Modelling Report for the Whale Tail and IVR WRSFs – DRAFT.

- Cover system material (NAG/NML) is expected to experience less weathering compared to Portage (increase in fines) due to lithology (greywacke vs. ultramafic) resulting in higher long-term infiltration rates and higher propensity for convective cooling compared to Portage.
- Decreased reactivity in NAG waste rock is expected to result in decreased arsenic load generation (but not zero load generation).
- Any interflow / runoff from the thermal cover system is not expected to report to collection ponds as 'plug flow' due to the variance in transit times across the landform. Put simply, incident precipitation at the toe of the WRSF will report to water collection systems much sooner than precipitation which lands on the plateau of the landform. Any contaminants of potential concern present within the thermal cover system material (eg. Arsenic), will therefore also be released gradually.
- Gradual decrease in arsenic loading over time is expected due to the hydrology of WRSFs.
- The thermal and hydrologic regimes are expected to be different based on North and South aspect.

Methodology

GeoStudio Version 10² was used to conduct the modelling for this project. This version of GeoStudio is a substantial upgrade to previous versions software as it is able to account for advective air flow as well as gas consumption due to mineral oxidation within the WRSF and associated heat generation via an add-in module developed for the software. Four components of the GeoStudio suite of programs were used in combination for this project: SEEP/W; TEMP/W; AIR/W, and CTRAN/W (with the gas consumption and exothermic reactions add-in incorporated into the CTRAN analysis).

Models representative of selected locations of thermistor strings at Meadowbank's Portage WRSF were simulated for the same period of time as the thermistor strings have been operational. The model results were then compared to the field data to determine that the model reasonably estimated field thermal conditions. Material inputs for the model were calibrated to provide a reasonable comparison to the field data. A detailed description of all material inputs can be found in the detailed thermal modelling report (Okane, 2019).

Following the one-dimensional calibration described above, a two-dimensional (2-D) cross section was developed (Figure 1) to determine the main factors promoting and inhibiting freeze-back of and seepage (amount and timing) from the WRSFs. The existing 4.7 m cover system design was modelled as the base case. Models consider coupled gas, heat, water, and air transfer processes. Additionally, the models account for the exothermic oxidation of sulphide materials. Therefore, TEMP/W, SEEP/W, and AIR/W components of the GeoStudio software suite were used in combination with the Gas Consumption and Exothermic Reactions add-in module GEOSLOPE developed with Okane to simulate sulphide oxidation.

² GEOSLOPE, 2018. GeoStudio 2019. Online. <https://www.geoslope.com>

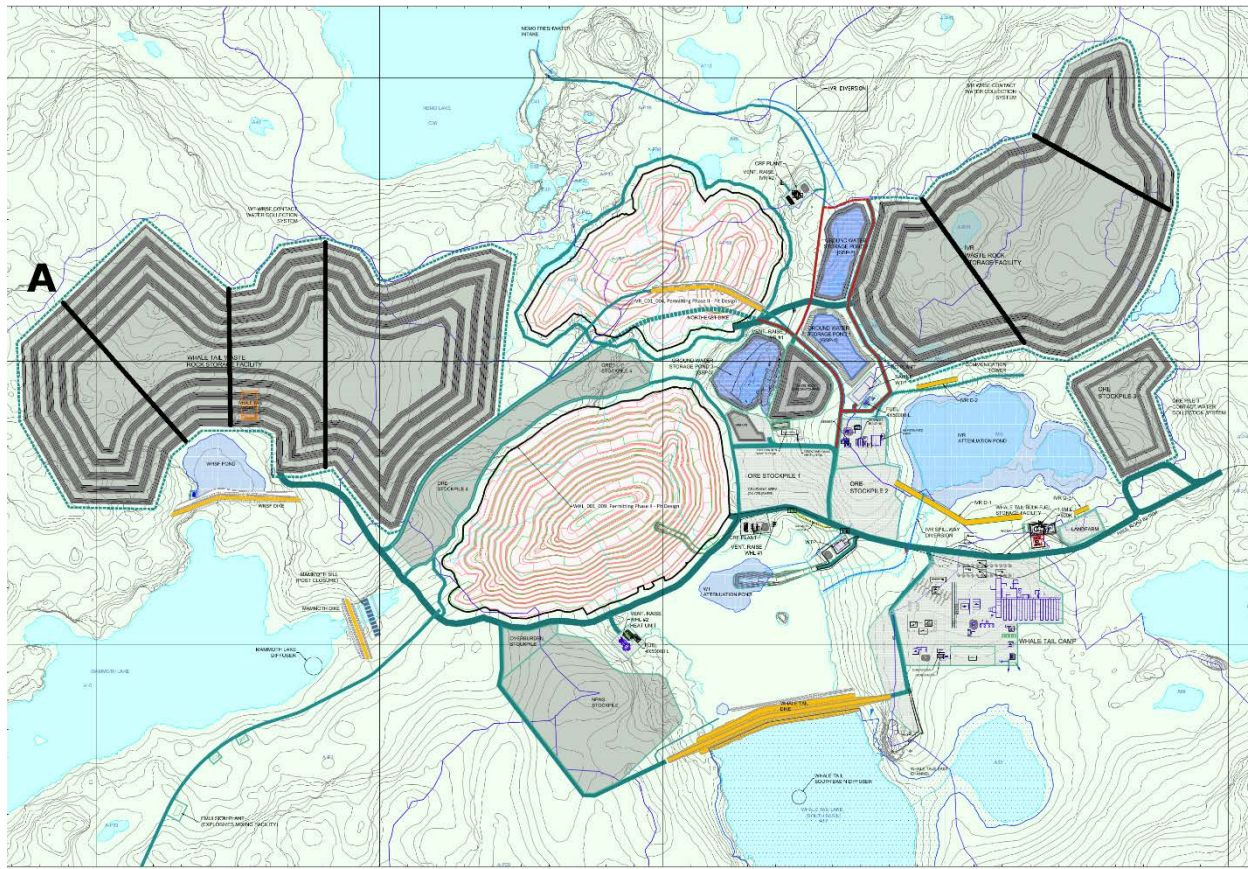


Figure 1: Location of the cross section 'A' used in modelling.

In order to capture the effects of construction on the landform water balance, the cross section modelled was 'built-up' in three-month intervals, according to the construction schedule provided (AEM, 2018³).

Results

Surface Water Balance

A summary of the surface water balance for the Amaruq WRSFs is provided in Table 1. This summarized the volume of annual runoff expected from the landforms as a percentage of incident precipitation (both snow and rainfall). Results of the surface water balance support the conceptual model that the hydrologic regimes are expected to be different based on North and South aspect. Generally, higher net radiation results in greater evaporation and soil heating. With more evaporation, less water is available to runoff and/or infiltrate. Higher net radiation will also result in more sublimation, as more energy is available to convert snow into water vapour.

³ Agnico Eagle. 2018. Agnico Eagle – Meadowbank Division Amaruq Mine Project 005 – Site Preparation 210 General Arrangement Amaruq Mine Site Arrangement Permitting Dwg, 2019Q4 v7, 2020Q4 v7, 2021Q4 v7, 2022Q4 v7, 2023Q4 v7, 2025Q4 v7, & AFTER MINE v7. October 18, 2018.

Table 1: Summary of average surface water balance for different aspects of the WRSF.

Water Balance Parameters	Plateau	SE Aspect	NW Aspect
Total Precipitation (mm)	296 mm	296 mm	296 mm
Rainfall (% of Total Precipitation)	55-60%	55-60%	55-60%
Snow (% of Total Precipitation)	40-45%	40-45%	40-45%
Actual Evaporation (% of Total Precipitation)	25-30%	30-35%	25-30%
Runoff (% of Total Precipitation)	<5%	<5%	10-15%
Net Percolation (% of Total Precipitation)	30-35%	25-30%	20-25%
Sublimation (% of Total Precipitation)	35-40%	40-45%	40-45%

In order to simplify runoff outputs from the surface water balance, the runoff values for each aspect were weighted based on the relative area represented by each aspect. This results in an overall runoff rates from the Whale Tail and IVR WRSFs of approximately 5% of incident precipitation. Runoff was assumed to interact with surficial materials to a depth of 30 cm.

The surficial materials interacting with landform runoff will change over time as progressive reclamation is completed. Table 2 and Table 3 summarize the relative percentage of runoff expected to interact directly with the cover system material and waste rock material over time.

Table 2: Relative amount of runoff from bare waste rock vs cover system materials at the Whale Tail WRSF.

Year	Percentage of Runoff from Bare Waste Rock	Percentage of Runoff from Cover System
2019	100%	0%
2020	82%	18%
2021	82%	18%
2022	71%	29%
2023	71%	29%
2024	61%	39%
2025	0%	100%

Table 3: Relative amount of runoff from bare waste rock vs cover system materials at the IVR WRSF.

Year	Percentage of Runoff from Bare Waste Rock	Percentage of Runoff from Cover System
2021	50%	50%
2022	50%	50%
2023	75%	25%
2024	75%	25%
2025	0%	100%

The majority of runoff from the WRSFs is expected to occur as a result of spring melt, however some runoff is expected throughout the unfrozen period. The distribution of runoff by month is provided in Table 4.

Table 4: Runoff distribution by month for the Whale Tail and IVR WRSF.

Month	Percent of Total Annual Runoff by Month (%)
January	0%
February	0%
March	0%
April	0%
May	0%
June	85-90%
July	5-10%
August	5-10%
September	<5%
October	0%
November	0%
December	0%

Basal Seepage

The high infiltration capacity of the cover system materials and waste rock materials result in a propensity for incident precipitation to result in infiltration, rather than runoff (Table 1). As water infiltrates into the surficial materials, net percolation flows vertically through the WRSF, eventually freezing back at depth. The base layer of the WRSF is consistently frozen from the time of placement. As a result, basal seepage from the landform is negligible.

Interflow

There is some lateral flow of water within the cover system on the angle of repose slopes (known as interflow), however, lateral flow infiltrates vertically in zones of enhanced infiltration along the toe of each bench of the WRSF. This is shown conceptually in Figure 2.

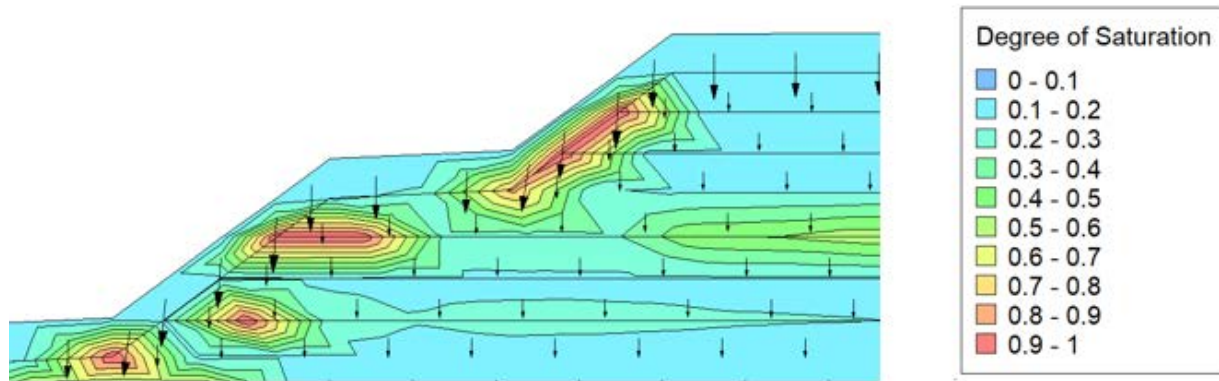


Figure 2: Sketch of hydrologic regime of the Whale Tail WRSF near surface with water flow vectors (black) shown.

A small portion (less than 1%) of incident precipitation over the entire landform(s) is expected to exit the landform as interflow. This occurs when infiltration occurs along the slope of the lowest bench of the WRSF. This flow path interacts with the entire 4.7 m depth of the cover system, along a maximum flow path of approximately 10 m. Interflow does not interact with the potentially acid generating and metal leaching waste rock.

We trust information provided in this memorandum is satisfactory for your requirements. Please do not hesitate to contact me at 306-713-1568 or gallen@okc-sk.com should you have any questions or comments.

APPENDIX F

Annual Water Balance

GROUNDWATER STORAGE POND 1 (Formerly GSP (Brine))

	INFLOWS									OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Quarry 1	Natural Runoff	WRSF	Waste Rock Pad	Underground Overflow	Underground Stope	Brine from RO	Whale Tail Attenuation Pond	U/G ore stockpile	Evaporation	Underground	O-WTP	Saltmaker	Underground (Closure)	Whale Tail Pit	Pond Volume	Water Level
Jan-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-18	0	14,952	0	0	0	0	0	0	0	71	0	0	0	0	0	14,882	145
Jul-18	0	2,212	0	0	0	0	0	0	0	1,428	0	0	0	0	0	15,666	145
Aug-18	0	2,905	0	0	0	0	0	0	0	1,440	0	0	0	0	0	17,131	145
Sep-18	0	4,964	0	0	0	0	0	0	0	556	0	0	0	0	0	21,539	146
Oct-18	0	0	0	0	0	0	0	0	0	0	131	0	0	0	0	21,408	146
Nov-18	0	0	0	0	0	0	0	0	0	0	131	0	0	0	0	21,277	146
Dec-18	0	0	0	0	0	0	0	0	0	0	135	0	0	0	0	21,142	145
Jan-19	0	0	0	0	0	0	0	0	0	0	275	0	0	0	0	20,868	145
Feb-19	0	0	0	0	0	0	0	0	0	0	138	0	0	0	0	20,730	145
Mar-19	0	0	0	0	0	0	0	0	0	0	152	0	0	0	0	20,578	145
Apr-19	0	0	0	0	0	0	0	0	0	0	147	0	0	0	0	20,430	145
May-19	0	0	0	0	0	0	0	0	0	0	152	0	0	0	0	20,278	145
Jun-19	0	13,755	9	0	0	0	0	0	334	125	5	0	0	0	0	34,248	146
Jul-19	0	2,043	1	0	0	0	0	0	46	1,425	0	0	0	0	0	34,913	146
Aug-19	0	2,633	1	0	0	0	0	0	75	1,441	0	0	0	0	0	36,180	147
Sep-19	0	4,361	0	0	0	0	0	0	166	560	0	0	0	0	0	40,147	147
Oct-19	0	0	0	0	0	0	0	0	0	0	147	0	0	0	0	40,000	147
Nov-19	0	0	0	0	0	0	0	0	0	0	147	0	0	0	0	39,853	147
Dec-19	0	0	0	0	0	0	0	53,930	0	0	152	0	0	0	0	93,630	150
Jan-20	0	0	0	0	0	0	0	29,708	0	0	249	0	0	0	0	123,089	152
Feb-20	0	0	0	0	0	0	0	27,023	0	0	0	0	0	0	0	150,112	154
Mar-20	0	0	0	0	0	0	0	28,714	0	0	0	0	0	0	0	178,826	155
Apr-20	0	0	0	0	0	0	0	27,868	0	0	0	0	0	0	0	206,694	156
May-20	0	0	0	0	156	0	0	28,711	0	0	0	0	0	0	0	235,561	158
Jun-20	0	11,198	31	0	2,520	0	0	926	898	132	0	241,002	0	0	0	10,000	145
Jul-20	0	1,691	2	0	1,702	0	0	0	109	1,258	0	0	0	0	0	12,246	145
Aug-20	0	2,220	2	0	1,755	0	0	0	157	1,441	0	0	0	0	0	14,939	145
Sep-20	0	3,558	1	0	1,793	0	0	0	317	557	0	0	0	0	0	20,051	145
Oct-20	0	0	0	0	1,412	0	4,500	0	0	0	0	0	0	0	0	25,963	146
Nov-20	0	0	0	0	1,367	0	4,500	0	0	0	0	0	0	0	0	31,830	146
Dec-20	0	0	0	0	1,412	0	4,650	0	0	0	0	0	0	0	0	37,892	147
Jan-21	0	0	0	0	441	0	4,650	0	0	0	355	0	0	0	0	42,629	147
Feb-21	0	0	0	0	462	0	4,200	0	0	0	0	0	0	0	0	47,290	147
Mar-21	0	0	0	0	511	0	4,650	0	0	0	0	0	0	0	0	52,452	148
Apr-21	0	0	0	0	495	0	4,500	0	0	0	0	0	0	0	0	57,447	148
May-21	0	0	0	0	511	0	4,650	0	0	0	0	0	0	0	0	62,608	148
Jun-21	0	9,876	43	0	1,648	0	136	0	1,093	132	0	0	0	0	0	75,272	149
Jul-21	0	1,640	3	0	801	0	0	0	128	1,508	0	0	0	0	0	76,336	149
Aug-21	0	2,098	3	0	854	0	0	0	179	1,526	0	0	0	0	0	77,943	149
Sep-21	0	3,343	1	0	921	0	0	0	350	593	0	0	0	0	0	81,966	150
Oct-21	0	0	0	0	511	0	4,500	0	0	0	0	0	0	0	0	86,977	150
Nov-21	0	0	0	0	495	0	4,500	0	0	0	0	0	0	0	0	91,972	150
Dec-21	0	0	0	0	511	0	4,650	0	0	0	0	0	0	0	0	97,133	151
Jan-22	0	0	0	0	5,749	10,000	4,650	0	0	0	0	0	0	0	0	117,532	152
Feb-22	0	0	0	0	5,268	0	4,200	0	0	0	0	0	0	0	0	127,000	153

GROUNDWATER STORAGE POND 1 (Formerly GSP (Brine))

	INFLOWS									OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Quarry 1	Natural Runoff	WRSF	Waste Rock Pad	Underground Overflow	Underground Stope	Brine from RO	Whale Tail Attenuation Pond	U/G ore stockpile	Evaporation	Underground	O-WTP	Saltmaker	Underground (Closure)	Whale Tail Pit	Pond Volume	Water Level
Mar-22	0	0	0	0	5,833	0	4,650	0	0	0	0	0	0	0	0	137,483	153
Apr-22	0	0	0	0	5,645	0	150	0	0	0	0	0	1,740	0	0	141,538	153
May-22	0	0	0	0	188	0	0	0	0	0	0	0	1,860	0	0	139,866	153
Jun-22	0	9,879	43	0	0	0	2,606	0	1,093	142	0	0	1,800	0	0	151,545	154
Jul-22	0	1,683	3	0	0	0	1,043	0	128	1,641	0	0	1,860	0	0	150,902	154
Aug-22	0	2,136	3	0	0	0	1,061	0	179	1,644	0	0	1,860	0	0	150,776	154
Sep-22	0	3,362	1	0	0	0	1,212	0	350	651	0	0	1,800	0	0	153,250	154
Oct-22	0	0	0	0	0	0	41	0	0	0	0	0	1,860	0	0	151,431	154
Nov-22	0	0	0	0	0	0	0	0	0	0	0	0	1,800	0	0	149,631	154
Dec-22	0	0	0	0	0	0	0	0	0	0	0	0	1,860	0	0	147,771	154
Jan-23	0	0	0	0	0	0	0	0	0	0	0	0	2,790	0	0	144,981	154
Feb-23	0	0	0	0	0	0	0	0	0	0	0	0	2,520	0	0	142,461	154
Mar-23	0	0	0	0	0	0	0	0	0	0	0	0	2,790	0	0	139,671	153
Apr-23	0	0	0	0	0	0	0	0	0	0	0	0	2,700	0	0	136,971	153
May-23	0	0	0	0	0	0	0	0	0	0	0	0	2,790	0	0	134,181	153
Jun-23	0	9,879	43	0	0	0	4,350	0	1,093	142	0	0	2,700	0	0	146,704	154
Jul-23	0	1,673	3	0	0	0	4,650	0	128	1,609	0	0	2,790	0	0	148,760	154
Aug-23	0	2,131	3	0	0	0	4,650	0	179	1,631	0	0	2,790	0	0	151,302	154
Sep-23	0	3,369	1	0	0	0	4,500	0	350	673	0	0	2,700	0	0	156,149	154
Oct-23	0	0	0	0	0	0	150	0	0	0	0	0	2,790	0	0	153,509	154
Nov-23	0	0	0	0	0	0	0	0	0	0	0	0	2,700	0	0	150,809	154
Dec-23	0	0	0	0	0	0	0	0	0	0	0	0	2,790	0	0	148,019	154
Jan-24	0	0	0	0	0	0	0	0	0	0	0	0	2,790	0	0	145,229	154
Feb-24	0	0	0	0	0	0	0	0	0	0	0	0	2,610	0	0	142,619	154
Mar-24	0	0	0	0	0	0	0	0	0	0	0	0	2,790	0	0	139,829	153
Apr-24	0	0	0	0	0	0	0	0	0	0	0	0	2,700	0	0	137,129	153
May-24	0	0	0	0	0	0	0	0	0	0	0	0	2,790	0	0	134,339	153
Jun-24	0	9,881	43	0	0	0	4,350	0	1,093	142	0	0	2,700	0	0	146,865	154
Jul-24	0	1,673	3	0	0	0	4,650	0	128	1,609	0	0	2,790	0	0	148,921	154
Aug-24	0	2,132	3	0	0	0	4,650	0	179	1,633	0	0	2,790	0	0	151,461	154
Sep-24	0	3,370	1	0	0	0	4,500	0	350	675	0	0	2,700	0	0	156,307	154
Oct-24	0	0	0	0	0	0	150	0	0	0	0	0	2,790	0	0	153,667	154
Nov-24	0	0	0	0	0	0	0	0	0	0	0	0	2,700	0	0	150,967	154
Dec-24	0	0	0	0	0	0	0	0	0	0	0	0	2,790	0	0	148,177	154
Jan-25	0	0	0	0	0	0	0	0	0	0	0	0	2,790	0	0	145,387	154
Feb-25	0	0	0	0	0	0	0	0	0	0	0	0	2,520	0	0	142,867	154
Mar-25	0	0	0	0	0	0	0	0	0	0	0	0	2,790	0	0	140,077	153
Apr-25	0	0	0	0	0	0	0	0	0	0	0	0	2,700	0	0	137,377	153
May-25	0	0	0	0	0	0	0	0	0	0	0	0	2,790	0	0	134,587	153
Jun-25	0	9,879	23	1,826	0	0	4,350	0	1,093	142	0	0	2,700	0	0	148,918	154
Jul-25	0	1,675	1	253	0	0	4,650	0	128	1,614	0	0	2,790	0	0	151,221	154
Aug-25	0	2,155	1	409	0	0	4,650	0	179	1,704	0	0	2,790	0	0	154,121	154
Sep-25	0	3,383	0	909	0	0	4,500	0	350	715	0	0	2,700	0	0	159,848	154
Oct-25	0	0	0	0	0	0	150	0	0	0	0	0	2,790	0	0	157,208	154
Nov-25	0	0	0	0	0	0	0	0	0	0	0	0	2,700	0	0	154,508	154
Dec-25	0	0	0	0	0	0	0	0	0	0	0	0	2,790	0	0	151,718	154
Jan-26	0	0	0	0	0	0	0	0	0	0	0	0	0	151,718	0	0	144
Feb-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144

GROUNDWATER STORAGE POND 1 (Formerly GSP (Brine))

[illegible]

GROUNDWATER STORAGE POND 1 (Formerly GSP (Brine))																	
	INFLOWS									OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Quarry 1	Natural Runoff	WRSF	Waste Rock Pad	Underground Overflow	Underground Stope	Brine from RO	Whale Tail Attenuation Pond	U/G ore stockpile	Evaporation	Underground	O-WTP	Saltmaker	Underground (Closure)	Whale Tail Pit	Pond Volume	Water Level
Jul-30	0	1,281	0	470	0	0	0	0	0	0	0	0	0	0	1,751	0	144
Aug-30	0	1,788	0	655	0	0	0	0	0	0	0	0	0	0	2,444	0	144
Sep-30	0	3,501	0	1,283	0	0	0	0	0	0	0	0	0	0	4,783	0	144
Oct-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-31	0	10,925	0	4,004	0	0	0	0	0	0	0	0	0	0	14,929	0	144
Jul-31	0	1,281	0	470	0	0	0	0	0	0	0	0	0	0	1,751	0	144
Aug-31	0	1,788	0	655	0	0	0	0	0	0	0	0	0	0	2,444	0	144
Sep-31	0	3,501	0	1,283	0	0	0	0	0	0	0	0	0	0	4,783	0	144
Oct-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-32	0	10,927	0	4,005	0	0	0	0	0	0	0	0	0	0	14,932	0	144
Jul-32	0	1,281	0	470	0	0	0	0	0	0	0	0	0	0	1,751	0	144
Aug-32	0	1,788	0	655	0	0	0	0	0	0	0	0	0	0	2,444	0	144
Sep-32	0	3,501	0	1,283	0	0	0	0	0	0	0	0	0	0	4,783	0	144
Oct-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-33	0	10,925	0	4,004	0	0	0	0	0	0	0	0	0	0	14,929	0	144
Jul-33	0	1,281	0	470	0	0	0	0	0	0	0	0	0	0	1,751	0	144
Aug-33	0	1,788	0	655	0	0	0	0	0	0	0	0	0	0	2,444	0	144
Sep-33	0	3,501	0	1,283	0	0	0	0	0	0	0	0	0	0	4,783	0	144
Oct-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-34	0	10,925	0	4,004	0	0	0	0	0	0	0	0	0	0	14,929	0	144
Jul-34	0	1,281	0	470	0	0	0	0	0	0	0	0	0	0	1,751	0	144
Aug-34	0	1,788	0	655	0	0	0	0	0	0	0	0	0	0	2,444	0	144

GROUNDWATER STORAGE POND 1 (Formerly GSP (Brine))

	INFLOWS									OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Quarry 1	Natural Runoff	WRSF	Waste Rock Pad	Underground Overflow	Underground Stope	Brine from RO	Whale Tail Attenuation Pond	U/G ore stockpile	Evaporation	Underground	O-WTP	Saltmaker	Underground (Closure)	Whale Tail Pit	Pond Volume	Water Level
Nov-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-39	0	10,925	0	4,004	0	0	0	0	0	0	0	0	0	0	14,929	0	144
Jul-39	0	1,281	0	470	0	0	0	0	0	0	0	0	0	0	1,751	0	144
Aug-39	0	1,788	0	655	0	0	0	0	0	0	0	0	0	0	2,444	0	144
Sep-39	0	3,501	0	1,283	0	0	0	0	0	0	0	0	0	0	4,783	0	144
Oct-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-40	0	10,927	0	4,005	0	0	0	0	0	0	0	0	0	0	14,932	0	144
Jul-40	0	1,281	0	470	0	0	0	0	0	0	0	0	0	0	1,751	0	144
Aug-40	0	1,788	0	655	0	0	0	0	0	0	0	0	0	0	2,444	0	144
Sep-40	0	3,501	0	1,283	0	0	0	0	0	0	0	0	0	0	4,783	0	144
Oct-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-41	0	10,925	0	4,004	0	0	0	0	0	0	0	0	0	0	14,929	0	144
Jul-41	0	1,281	0	470	0	0	0	0	0	0	0	0	0	0	1,751	0	144
Aug-41	0	1,788	0	655	0	0	0	0	0	0	0	0	0	0	2,444	0	144
Sep-41	0	3,501	0	1,283	0	0	0	0	0	0	0	0	0	0	4,783	0	144
Oct-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-42	0	10,925	0	4,004	0	0	0	0	0	0	0	0	0	0	14,929	0	144
Jul-42	0	1,281	0	470	0	0	0	0	0	0	0	0	0	0	1,751	0	144
Aug-42	0	1,788	0	655	0	0	0	0	0	0	0	0	0	0	2,444	0	144
Sep-42	0	3,501	0	1,283	0	0	0	0	0	0	0	0	0	0	4,783	0	144
Oct-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144

GROUNDWATER STORAGE POND 1 (Formerly GSP (Brine))

	INFLOWS									OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Quarry 1	Natural Runoff	WRSF	Waste Rock Pad	Underground Overflow	Underground Stope	Brine from RO	Whale Tail Attenuation Pond	U/G ore stockpile	Evaporation	Underground	O-WTP	Saltmaker	Underground (Closure)	Whale Tail Pit	Pond Volume	Water Level
Jan-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-43	0	10925.08	0	4003.802	0	0	0	0	0	0	0	0	0	0	14928.89	0	144
Jul-43	0	1281.138	0	469.5088	0	0	0	0	0	0	0	0	0	0	1750.647	0	144
Aug-43	0	1788.37	0	655.3978	0	0	0	0	0	0	0	0	0	0	2443.767	0	144
Sep-43	0	3500.563	0	1282.879	0	0	0	0	0	0	0	0	0	0	4783.442	0	144
Oct-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-44	0	10927.35	0	4004.63	0	0	0	0	0	0	0	0	0	0	14931.98	0	144
Jul-44	0	1281.138	0	469.5088	0	0	0	0	0	0	0	0	0	0	1750.647	0	144
Aug-44	0	1788.37	0	655.3978	0	0	0	0	0	0	0	0	0	0	2443.767	0	144
Sep-44	0	3500.563	0	1282.879	0	0	0	0	0	0	0	0	0	0	4783.442	0	144
Oct-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-45	0	10925.08	0	4003.802	0	0	0	0	0	0	0	0	0	0	14928.89	0	144
Jul-45	0	1281.138	0	469.5088	0	0	0	0	0	0	0	0	0	0	1750.647	0	144
Aug-45	0	1788.37	0	655.3978	0	0	0	0	0	0	0	0	0	0	2443.767	0	144
Sep-45	0	3500.563	0	1282.879	0	0	0	0	0	0	0	0	0	0	4783.442	0	144
Oct-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-46	0	10925.08	0	4003.802	0	0	0	0	0	0	0	0	0	0	14928.89	0	144
Jul-46	0	1281.138	0	469.5088	0	0	0	0	0	0	0	0	0	0	1750.647	0	144
Aug-46	0	1788.37	0	655.3978	0	0	0	0	0	0	0	0	0	0	2443.767	0	144
Sep-46	0	3500.563	0	1282.879	0	0	0	0	0	0	0	0	0	0	4783.442	0	144
Oct-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144

GROUNDWATER STORAGE POND 1 (Formerly GSP (Brine))

	INFLOWS									OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Quarry 1	Natural Runoff	WRSF	Waste Rock Pad	Underground Overflow	Underground Stope	Brine from RO	Whale Tail Attenuation Pond	U/G ore stockpile	Evaporation	Underground	O-WTP	Saltmaker	Underground (Closure)	Whale Tail Pit	Pond Volume	Water Level
Mar-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-47	0	10925.08	0	4003.802	0	0	0	0	0	0	0	0	0	0	14928.89	0	144
Jul-47	0	1281.138	0	469.5088	0	0	0	0	0	0	0	0	0	0	1750.647	0	144
Aug-47	0	1788.37	0	655.3978	0	0	0	0	0	0	0	0	0	0	2443.767	0	144
Sep-47	0	3500.563	0	1282.879	0	0	0	0	0	0	0	0	0	0	4783.442	0	144
Oct-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-48	0	10927.35	0	4004.63	0	0	0	0	0	0	0	0	0	0	14931.98	0	144
Jul-48	0	1281.138	0	469.5088	0	0	0	0	0	0	0	0	0	0	1750.647	0	144
Aug-48	0	1788.37	0	655.3978	0	0	0	0	0	0	0	0	0	0	2443.767	0	144
Sep-48	0	3500.563	0	1282.879	0	0	0	0	0	0	0	0	0	0	4783.442	0	144
Oct-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-49	0	10925.08	0	4003.802	0	0	0	0	0	0	0	0	0	0	14928.89	0	144
Jul-49	0	1281.138	0	469.5088	0	0	0	0	0	0	0	0	0	0	1750.647	0	144
Aug-49	0	1788.37	0	655.3978	0	0	0	0	0	0	0	0	0	0	2443.767	0	144
Sep-49	0	3500.563	0	1282.879	0	0	0	0	0	0	0	0	0	0	4783.442	0	144
Oct-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-50	0	10925.08	0	4003.802	0	0	0	0	0	0	0	0	0	0	14928.89	0	144
Jul-50	0	1281.138	0	469.5088	0	0	0	0	0	0	0	0	0	0	1750.647	0	144
Aug-50	0	1788.37	0	655.3978	0	0	0	0	0	0	0	0	0	0	2443.767	0	144
Sep-50	0	3500.563	0	1282.879	0	0	0	0	0	0	0	0	0	0	4783.442	0	144
Oct-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144

UNDERGROUND MINE																		
	INFLOWS									OUTFLOWS							STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon		m3	m
Date	Runoff	Groundwater	Whale Tail Lake (South Basin)	GSP-1	Lake C38 (Nemo Lake)	Recirculation	GSP-1 (Closure)	IVR Att Pond	GSP-2 (Closure)	Recirculation	Groundwater	Waste Rock	Underground Stope	GSP-1	GSP-2	Overflow	Pond Volume	Water Level
Jan-18	0	0	0	0	303	5,029	0	0	0	5,197	0	135	0	0	0	0	1	-501.1
Feb-18	0	0	0	0	122	4,694	0	0	0	4,694	0	122	0	0	0	0	1	-501.1
Mar-18	0	0	0	0	135	5,197	0	0	0	5,197	0	135	0	0	0	0	1	-501.1
Apr-18	0	0	0	0	131	5,029	0	0	0	5,029	0	131	0	0	0	0	1	-501.1
May-18	0	0	0	0	135	5,197	0	0	0	5,197	0	135	0	0	0	0	1	-501.1
Jun-18	1,153	0	0	0	0	5,160	0	0	0	5,160	0	131	1,022	0	0	0	1	-501.1
Jul-18	290	0	0	0	0	5,332	0	0	0	5,332	0	135	154	0	0	0	1	-501.1
Aug-18	342	0	0	0	0	5,332	0	0	0	5,332	0	135	207	0	0	0	1	-501.1
Sep-18	426	0	0	0	0	5,160	0	0	0	5,160	0	131	295	0	0	0	1	-501.1
Oct-18	0	0	0	131	0	5,201	0	0	0	5,197	0	135	0	0	0	0	1	-501.1
Nov-18	0	0	0	131	0	5,029	0	0	0	5,029	0	131	0	0	0	0	1	-501.1
Dec-18	0	0	0	135	0	5,197	0	0	0	5,197	0	135	0	0	0	0	1	-501.1
Jan-19	0	0	0	275	0	8,870	0	0	0	8,993	0	152	0	0	0	0	1	-501.1
Feb-19	0	0	0	138	0	8,122	0	0	0	8,122	0	138	0	0	0	0	1	-501.1
Mar-19	0	0	0	152	0	8,993	0	0	0	8,993	0	152	0	0	0	0	1	-501.1
Apr-19	0	0	0	147	0	8,703	0	0	0	8,703	0	147	0	0	0	0	1	-501.1
May-19	0	0	0	152	0	8,993	0	0	0	8,993	0	152	0	0	0	0	1	-501.1
Jun-19	1,153	0	0	5	0	8,845	0	0	0	8,850	0	147	1,005	0	0	0	1	-501.1
Jul-19	290	0	0	0	0	9,145	0	0	0	9,145	0	152	137	0	0	0	1	-501.1
Aug-19	342	0	0	0	0	9,145	0	0	0	9,145	0	152	190	0	0	0	1	-501.1
Sep-19	426	0	0	0	0	8,850	0	0	0	8,850	0	147	279	0	0	0	1	-501.1
Oct-19	0	0	0	147	0	8,998	0	0	0	8,993	0	152	0	0	0	0	1	-501.1
Nov-19	0	0	0	147	0	8,703	0	0	0	8,703	0	147	0	0	0	0	1	-501.1
Dec-19	0	0	0	152	0	8,993	0	0	0	8,993	0	152	0	0	0	0	1	-501.1
Jan-20	0	1,860	0	249	0	18,246	0	0	0	18,555	0	448	1,352	0	0	0	1	-501.1
Feb-20	0	1,740	0	0	0	17,371	0	0	0	17,371	0	419	1,321	0	0	0	1	-501.1
Mar-20	0	1,860	0	0	0	18,569	0	0	0	18,569	0	448	1,412	0	0	0	1	-501.1
Apr-20	0	1,800	0	0	0	17,970	0	0	0	17,970	0	433	1,367	0	0	0	1	-501.1
May-20	0	1,860	0	0	0	18,569	0	0	0	18,569	0	448	1,256	156	0	0	1	-501.1
Jun-20	1,153	1,800	0	0	0	17,970	0	0	0	17,970	0	433	0	2,520	0	0	1	-501.1
Jul-20	290	1,860	0	0	0	18,569	0	0	0	18,569	0	448	0	1,702	0	0	1	-501.1
Aug-20	342	1,860	0	0	0	18,569	0	0	0	18,569	0	448	0	1,755	0	0	1	-501.1
Sep-20	426	1,800	0	0	0	17,970	0	0	0	17,970	0	433	0	1,793	0	0	1	-501.1
Oct-20	0	1,860	0	0	0	18,569	0	0	0	18,569	0	448	0	1,412	0	0	1	-501.1
Nov-20	0	1,800	0	0	0	17,970	0	0	0	17,970	0	433	0	1,367	0	0	1	-501.1
Dec-20	0	1,860	0	0	0	18,569	0	0	0	18,569	0	448	0	1,412	0	0	1	-501.1
Jan-21	0	2,170	0	355	0	31,204	0	0	0	31,629	0	1,659	0	441	0	0	1	-501.1
Feb-21	0	1,960	0	0	0	28,672	0	0	0	28,672	0	1,498	0	462	0	0	1	-501.1
Mar-21	0	2,170	0	0	0	31,744	0	0	0	31,744	0	1,659	0	511	0	0	1	-501.1
Apr-21	0	2,100	0	0	0	30,720	0	0	0	30,720	0	1,605	0	495	0	0	1	-501.1
May-21	0	2,170	0	0	0	31,744	0	0	0	31,744	0	1,659	0	511	0	0	1	-501.1
Jun-21	1,153	2,100	0	0	0	30,720	0	0	0	30,720	0	1,605	0	1,648	0	0	1	-501.1
Jul-21	290	2,170	0	0	0	31,744	0	0	0	31,744	0	1,659	0	801	0	0	1	-501.1
Aug-21	342	2,170	0	0	0	31,744	0	0	0	31,744	0	1,659	0	854	0	0	1	-501.1
Sep-21	426	2,100	0	0	0	30,720	0	0	0	30,720	0	1,605	0	921	0	0	1	-501.1
Oct-21	0	2,170	0	0	0	31,744	0	0	0	31,744	0	1,659	0	511	0	0	1	-501.1
Nov-21	0	2,100	0	0	0	30,720	0	0	0	30,720	0	1,605	0	495	0	0	1	-501.1
Dec-21	0	2,170	0	0	0	31,744	0	0	0	31,744	0	1,659	0	511	0	0	1	-501.1
Jan-22	0	7,750	0	0	0	34,264	0	0	0	34,348	0	1,917	0	5,749	0	0	1	-501.1
Feb-22	0	7,000	0	0	0	31,024	0	0	0	31,024	0	1,732	0	5,268	0	0	1	-501.1
Mar-22	0	7,750	0	0	0	34,348	0	0	0	34,348	0	1,917	0	5,833	0	0	1	-501.1

UNDERGROUND MINE																		
	INFLOWS									OUTFLOWS							STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon		m3	m
Date	Runoff	Groundwater	Whale Tail Lake (South Basin)	GSP-1	Lake C38 (Nemo Lake)	Recirculation	GSP-1 (Closure)	IVR Att Pond	GSP-2 (Closure)	Recirculation	Groundwater	Waste Rock	Underground Stope	GSP-1	GSP-2	Overflow	Pond Volume	Water Level
Apr-22	0	7,500	0	0	0	33,240	0	0	0	33,240	0	1,855	0	5,645	0	0	1	-501.1
May-22	0	7,750	0	0	0	34,348	0	0	0	34,348	0	1,917	0	188	5,645	0	1	-501.1
Jun-22	1,153	7,500	0	0	0	33,240	0	0	0	33,240	0	1,855	0	0	6,797	0	1	-501.1
Jul-22	290	7,750	0	0	0	34,348	0	0	0	34,348	0	1,917	0	0	6,122	0	1	-501.1
Aug-22	342	7,750	0	0	0	34,348	0	0	0	34,348	0	1,917	0	0	6,175	0	1	-501.1
Sep-22	426	7,500	0	0	0	33,240	0	0	0	33,240	0	1,855	0	0	6,071	0	1	-501.1
Oct-22	0	7,750	0	0	0	34,348	0	0	0	34,348	0	1,917	0	0	5,833	0	1	-501.1
Nov-22	0	7,500	0	0	0	33,240	0	0	0	33,240	0	1,855	0	0	5,645	0	1	-501.1
Dec-22	0	7,750	0	0	0	34,348	0	0	0	34,348	0	1,917	0	0	5,833	0	1	-501.1
Jan-23	0	13,020	0	0	0	30,208	0	0	0	30,070	0	1,591	0	0	11,567	0	1	-501.1
Feb-23	0	11,760	0	0	0	27,160	0	0	0	27,160	0	1,437	0	0	10,323	0	1	-501.1
Mar-23	0	13,020	0	0	0	30,070	0	0	0	30,070	0	1,591	0	0	11,429	0	1	-501.1
Apr-23	0	12,600	0	0	0	29,100	0	0	0	29,100	0	1,540	0	0	11,060	0	1	-501.1
May-23	0	13,020	0	0	0	30,070	0	0	0	30,070	0	1,591	0	0	11,429	0	1	-501.1
Jun-23	1,153	12,600	0	0	0	29,100	0	0	0	29,100	0	1,540	0	0	12,213	0	1	-501.1
Jul-23	290	13,020	0	0	0	30,070	0	0	0	30,070	0	1,591	0	0	11,718	0	1	-501.1
Aug-23	342	13,020	0	0	0	30,070	0	0	0	30,070	0	1,591	0	0	11,771	0	1	-501.1
Sep-23	426	12,600	0	0	0	29,100	0	0	0	29,100	0	1,540	0	0	11,486	0	1	-501.1
Oct-23	0	13,020	0	0	0	30,070	0	0	0	30,070	0	1,591	0	0	11,429	0	1	-501.1
Nov-23	0	12,600	0	0	0	29,100	0	0	0	29,100	0	1,540	0	0	11,060	0	1	-501.1
Dec-23	0	13,020	0	0	0	30,070	0	0	0	30,070	0	1,591	0	0	11,429	0	1	-501.1
Jan-24	0	12,710	0	0	0	23,170	0	0	0	22,940	0	1,265	0	0	11,675	0	1	-501.1
Feb-24	0	11,890	0	0	0	21,460	0	0	0	21,460	0	1,184	0	0	10,706	0	1	-501.1
Mar-24	0	12,710	0	0	0	22,940	0	0	0	22,940	0	1,265	0	0	11,445	0	1	-501.1
Apr-24	0	12,300	0	0	0	22,200	0	0	0	22,200	0	1,225	0	0	11,075	0	1	-501.1
May-24	0	12,710	0	0	0	22,940	0	0	0	22,940	0	1,265	0	0	11,445	0	1	-501.1
Jun-24	1,153	12,300	0	0	0	22,200	0	0	0	22,200	0	1,225	0	0	12,228	0	1	-501.1
Jul-24	290	12,710	0	0	0	22,940	0	0	0	22,940	0	1,265	0	0	11,734	0	1	-501.1
Aug-24	342	12,710	0	0	0	22,940	0	0	0	22,940	0	1,265	0	0	11,787	0	1	-501.1
Sep-24	426	12,300	0	0	0	22,200	0	0	0	22,200	0	1,225	0	0	11,502	0	1	-501.1
Oct-24	0	12,710	0	0	0	22,940	0	0	0	22,940	0	1,265	0	0	11,445	0	1	-501.1
Nov-24	0	12,300	0	0	0	22,200	0	0	0	22,200	0	1,225	0	0	11,075	0	1	-501.1
Dec-24	0	12,710	0	0	0	22,940	0	0	0	22,940	0	1,265	0	0	11,445	0	1	-501.1
Jan-25	0	10,540	0	0	0	14,690	0	0	0	14,415	0	0	0	0	10,815	0	1	-501.1
Feb-25	0	9,520	0	0	0	13,020	0	0	0	13,020	0	0	0	0	9,520	0	1	-501.1
Mar-25	0	10,540	0	0	0	14,415	0	0	0	14,415	0	0	0	0	10,540	0	1	-501.1
Apr-25	0	10,200	0	0	0	13,950	0	0	0	13,950	0	0	0	0	10,200	0	1	-501.1
May-25	0	10,540	0	0	0	14,415	0	0	0	14,415	0	0	0	0	10,540	0	1	-501.1
Jun-25	1,153	10,200	0	0	0	13,950	0	0	0	13,950	0	0	0	0	11,353	0	1	-501.1
Jul-25	290	10,540	0	0	0	14,415	0	0	0	14,415	0	0	0	0	10,830	0	1	-501.1
Aug-25	342	10,540	0	0	0	14,415	0	0	0	14,415	0	0	0	0	10,882	0	1	-501.1
Sep-25	426	10,200	0	0	0	13,950	0	0	0	13,950	0	0	0	0	10,626	0	1	-501.1
Oct-25	0	10,540	0	0	0	14,415	0	0	0	14,415	0	0	0	0	10,540	0	1	-501.1
Nov-25	0	10,200	0	0	0	13,950	0	0	0	13,950	0	0	0	0	10,200	0	1	-501.1
Dec-25	0	10,540	0	0	0	14,415	0	0	0	14,415	0	0	0	0	10,540	0	1	-501.1
Jan-26	0	647	0	0	0	465	151,718	169,293	75,637	0	0	0	0	0	0	0	397,761	-289.5
Feb-26	0	604	0	0	0	0	0	0	0	0	0	0	0	0	0	0	398,364	-288.9
Mar-26	0	669	0	0	0	0	0	0	0	0	0	0	0	0	0	0	399,034	-288.4
Apr-26	0	648	0	0	0	0	0	0	0	0	0	0	0	0	0	0	399,682	-287.8
May-26	0	501	868,364	0	0	0	0	0	0	0	288	0	0	0	0	0	1,268,258	135.8
Jun-26	1,153	0	0	0	0	0	0	0	0	0	762	0	0	0	0	104	1,268,546	149.0

UNDERGROUND MINE																		
	INFLOWS									OUTFLOWS							STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon		m3	m
Date	Runoff	Groundwater	Whale Tail Lake (South Basin)	GSP-1	Lake C38 (Nemo Lake)	Recirculation	GSP-1 (Closure)	IVR Att Pond	GSP-2 (Closure)	Recirculation	Groundwater	Waste Rock	Underground Stope	GSP-1	GSP-2	Overflow	Pond Volume	Water Level
Jul-26	290	0	0	0	0	0	0	0	0	0	812	0	0	0	0	0	1,268,023	125.0
Aug-26	342	0	0	0	0	0	0	0	0	0	547	0	0	0	0	0	1,267,819	115.6
Sep-26	426	0	0	0	0	0	0	0	0	0	472	0	0	0	0	0	1,267,773	113.5
Oct-26	0	0	0	0	0	0	0	0	0	0	385	0	0	0	0	0	1,267,388	95.8
Nov-26	0	0	0	0	0	0	0	0	0	0	246	0	0	0	0	0	1,267,142	84.5
Dec-26	0	0	0	0	0	0	0	0	0	0	144	0	0	0	0	0	1,266,998	77.8
Jan-27	0	0	0	0	0	0	0	0	0	0	75	0	0	0	0	0	1,266,923	74.4
Feb-27	0	0	0	0	0	0	0	0	0	0	36	0	0	0	0	0	1,266,887	72.7
Mar-27	0	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	1,266,866	71.7
Apr-27	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	1,266,856	71.3
May-27	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	1,266,850	71.0
Jun-27	1,153	0	0	0	0	0	0	0	0	0	257	0	0	0	0	0	1,267,746	112.2
Jul-27	290	0	0	0	0	0	0	0	0	0	430	0	0	0	0	0	1,267,605	105.7
Aug-27	342	0	0	0	0	0	0	0	0	0	388	0	0	0	0	0	1,267,560	103.6
Sep-27	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,609	105.9
Oct-27	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,282	90.9
Nov-27	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-27	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3
Jan-28	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	1,266,905	73.6
Feb-28	0	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	1,266,876	72.2
Mar-28	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	1,266,861	71.5
Apr-28	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1,266,853	71.2
May-28	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1,266,849	71.0
Jun-28	1,153	0	0	0	0	0	0	0	0	0	256	0	0	0	0	0	1,267,746	112.2
Jul-28	290	0	0	0	0	0	0	0	0	0	430	0	0	0	0	0	1,267,605	105.7
Aug-28	342	0	0	0	0	0	0	0	0	0	388	0	0	0	0	0	1,267,560	103.6
Sep-28	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,609	105.9
Oct-28	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,282	90.9
Nov-28	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-28	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3
Jan-29	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	1,266,905	73.6
Feb-29	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	1,266,877	72.3
Mar-29	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	1,266,861	71.5
Apr-29	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1,266,853	71.2
May-29	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1,266,849	71.0
Jun-29	1,153	0	0	0	0	0	0	0	0	0	256	0	0	0	0	0	1,267,745	112.2
Jul-29	290	0	0	0	0	0	0	0	0	0	430	0	0	0	0	0	1,267,605	105.7
Aug-29	342	0	0	0	0	0	0	0	0	0	388	0	0	0	0	0	1,267,560	103.6
Sep-29	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,609	105.9
Oct-29	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,282	90.9
Nov-29	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-29	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3
Jan-30	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	1,266,905	73.6
Feb-30	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	1,266,877	72.3
Mar-30	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	1,266,861	71.5
Apr-30	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1,266,853	71.2
May-30	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1,266,849	71.0
Jun-30	1,153	0	0	0	0	0	0	0	0	0	256	0	0	0	0	0	1,267,745	112.2
Jul-30	290	0	0	0	0	0	0	0	0	0	430	0	0	0	0	0	1,267,605	105.7
Aug-30	342	0	0	0	0	0	0	0	0	0	388	0	0	0	0	0	1,267,560	103.6
Sep-30	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,609	105.9

UNDERGROUND MINE																		
	INFLOWS									OUTFLOWS							STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon		m3	m
Date	Runoff	Groundwater	Whale Tail Lake (South Basin)	GSP-1	Lake C38 (Nemo Lake)	Recirculation	GSP-1 (Closure)	IVR Att Pond	GSP-2 (Closure)	Recirculation	Groundwater	Waste Rock	Underground Stope	GSP-1	GSP-2	Overflow	Pond Volume	Water Level
Oct-30	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,282	90.9
Nov-30	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-30	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3
Jan-31	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	1,266,905	73.6
Feb-31	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	1,266,877	72.3
Mar-31	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	1,266,861	71.5
Apr-31	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1,266,853	71.2
May-31	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1,266,849	71.0
Jun-31	1,153	0	0	0	0	0	0	0	0	0	256	0	0	0	0	0	1,267,745	112.2
Jul-31	290	0	0	0	0	0	0	0	0	0	430	0	0	0	0	0	1,267,605	105.7
Aug-31	342	0	0	0	0	0	0	0	0	0	388	0	0	0	0	0	1,267,560	103.6
Sep-31	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,609	105.9
Oct-31	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,282	90.9
Nov-31	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-31	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3
Jan-32	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	1,266,905	73.6
Feb-32	0	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	1,266,876	72.2
Mar-32	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	1,266,861	71.5
Apr-32	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1,266,853	71.2
May-32	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1,266,849	71.0
Jun-32	1,153	0	0	0	0	0	0	0	0	0	256	0	0	0	0	0	1,267,746	112.2
Jul-32	290	0	0	0	0	0	0	0	0	0	430	0	0	0	0	0	1,267,605	105.7
Aug-32	342	0	0	0	0	0	0	0	0	0	388	0	0	0	0	0	1,267,560	103.6
Sep-32	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,609	105.9
Oct-32	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,282	90.9
Nov-32	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-32	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3
Jan-33	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	1,266,905	73.6
Feb-33	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	1,266,877	72.3
Mar-33	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	1,266,861	71.5
Apr-33	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1,266,853	71.2
May-33	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1,266,849	71.0
Jun-33	1,153	0	0	0	0	0	0	0	0	0	256	0	0	0	0	0	1,267,745	112.2
Jul-33	290	0	0	0	0	0	0	0	0	0	430	0	0	0	0	0	1,267,605	105.7
Aug-33	342	0	0	0	0	0	0	0	0	0	388	0	0	0	0	0	1,267,560	103.6
Sep-33	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,609	105.9
Oct-33	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,282	90.9
Nov-33	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-33	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3
Jan-34	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	1,266,905	73.6
Feb-34	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	1,266,877	72.3
Mar-34	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	1,266,861	71.5
Apr-34	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1,266,853	71.2
May-34	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1,266,849	71.0
Jun-34	1,153	0	0	0	0	0	0	0	0	0	256	0	0	0	0	0	1,267,745	112.2
Jul-34	290	0	0	0	0	0	0	0	0	0	430	0	0	0	0	0	1,267,605	105.7
Aug-34	342	0	0	0	0	0	0	0	0	0	388	0	0	0	0	0	1,267,560	103.6
Sep-34	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,609	105.9
Oct-34	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,282	90.9
Nov-34	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-34	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3

UNDERGROUND MINE																		
	INFLOWS									OUTFLOWS							STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon		m3	m
Date	Runoff	Groundwater	Whale Tail Lake (South Basin)	GSP-1	Lake C38 (Nemo Lake)	Recirculation	GSP-1 (Closure)	IVR Att Pond	GSP-2 (Closure)	Recirculation	Groundwater	Waste Rock	Underground Stope	GSP-1	GSP-2	Overflow	Pond Volume	Water Level
Jan-35	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	1,266,905	73.6
Feb-35	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	1,266,877	72.3
Mar-35	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	1,266,861	71.5
Apr-35	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1,266,853	71.2
May-35	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1,266,849	71.0
Jun-35	1,153	0	0	0	0	0	0	0	0	0	256	0	0	0	0	0	1,267,745	112.2
Jul-35	290	0	0	0	0	0	0	0	0	0	430	0	0	0	0	0	1,267,605	105.7
Aug-35	342	0	0	0	0	0	0	0	0	0	388	0	0	0	0	0	1,267,560	103.6
Sep-35	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,609	105.9
Oct-35	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,282	90.9
Nov-35	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-35	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3
Jan-36	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	1,266,905	73.6
Feb-36	0	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	1,266,876	72.2
Mar-36	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	1,266,861	71.5
Apr-36	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1,266,853	71.2
May-36	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1,266,849	71.0
Jun-36	1,153	0	0	0	0	0	0	0	0	0	256	0	0	0	0	0	1,267,746	112.2
Jul-36	290	0	0	0	0	0	0	0	0	0	430	0	0	0	0	0	1,267,605	105.7
Aug-36	342	0	0	0	0	0	0	0	0	0	388	0	0	0	0	0	1,267,560	103.6
Sep-36	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,609	105.9
Oct-36	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,282	90.9
Nov-36	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-36	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3
Jan-37	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	1,266,905	73.6
Feb-37	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	1,266,877	72.3
Mar-37	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	1,266,861	71.5
Apr-37	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1,266,853	71.2
May-37	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1,266,849	71.0
Jun-37	1,153	0	0	0	0	0	0	0	0	0	257	0	0	0	0	0	1,267,745	112.2
Jul-37	290	0	0	0	0	0	0	0	0	0	430	0	0	0	0	0	1,267,605	105.7
Aug-37	342	0	0	0	0	0	0	0	0	0	388	0	0	0	0	0	1,267,559	103.6
Sep-37	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,609	105.9
Oct-37	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,282	90.9
Nov-37	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-37	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3
Jan-38	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	1,266,905	73.6
Feb-38	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	1,266,877	72.3
Mar-38	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	1,266,861	71.5
Apr-38	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1,266,853	71.2
May-38	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1,266,849	71.0
Jun-38	1,153	0	0	0	0	0	0	0	0	0	257	0	0	0	0	0	1,267,745	112.2
Jul-38	290	0	0	0	0	0	0	0	0	0	430	0	0	0	0	0	1,267,605	105.7
Aug-38	342	0	0	0	0	0	0	0	0	0	388	0	0	0	0	0	1,267,559	103.6
Sep-38	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,609	105.9
Oct-38	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,282	90.9
Nov-38	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-38	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3
Jan-39	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	1,266,905	73.6
Feb-39	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	1,266,877	72.3
Mar-39	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	1,266,861	71.5

UNDERGROUND MINE																		
	INFLOWS									OUTFLOWS							STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon		m3	m
Date	Runoff	Groundwater	Whale Tail Lake (South Basin)	GSP-1	Lake C38 (Nemo Lake)	Recirculation	GSP-1 (Closure)	IVR Att Pond	GSP-2 (Closure)	Recirculation	Groundwater	Waste Rock	Underground Stope	GSP-1	GSP-2	Overflow	Pond Volume	Water Level
Apr-39	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1,266,853	71.2
May-39	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1,266,849	71.0
Jun-39	1,153	0	0	0	0	0	0	0	0	0	256	0	0	0	0	0	1,267,745	112.2
Jul-39	290	0	0	0	0	0	0	0	0	0	430	0	0	0	0	0	1,267,605	105.7
Aug-39	342	0	0	0	0	0	0	0	0	0	388	0	0	0	0	0	1,267,560	103.6
Sep-39	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,609	105.9
Oct-39	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,282	90.9
Nov-39	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-39	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3
Jan-40	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	1,266,905	73.6
Feb-40	0	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	1,266,876	72.2
Mar-40	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	1,266,861	71.5
Apr-40	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1,266,853	71.2
May-40	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1,266,849	71.0
Jun-40	1,153	0	0	0	0	0	0	0	0	0	256	0	0	0	0	0	1,267,746	112.2
Jul-40	290	0	0	0	0	0	0	0	0	0	430	0	0	0	0	0	1,267,605	105.7
Aug-40	342	0	0	0	0	0	0	0	0	0	388	0	0	0	0	0	1,267,560	103.6
Sep-40	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,609	105.9
Oct-40	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,282	90.9
Nov-40	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-40	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3
Jan-41	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	1,266,905	73.6
Feb-41	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	1,266,877	72.3
Mar-41	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	1,266,861	71.5
Apr-41	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1,266,853	71.2
May-41	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1,266,849	71.0
Jun-41	1,153	0	0	0	0	0	0	0	0	0	261	0	0	0	0	0	1,267,741	112.0
Jul-41	290	0	0	0	0	0	0	0	0	0	428	0	0	0	0	0	1,267,603	105.6
Aug-41	342	0	0	0	0	0	0	0	0	0	387	0	0	0	0	0	1,267,558	103.6
Sep-41	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,608	105.9
Oct-41	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,281	90.8
Nov-41	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-41	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3
Jan-42	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	1,266,905	73.6
Feb-42	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	1,266,877	72.3
Mar-42	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	1,266,861	71.5
Apr-42	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1,266,853	71.2
May-42	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1,266,849	71.0
Jun-42	1,153	0	0	0	0	0	0	0	0	0	260	0	0	0	0	0	1,267,741	112.0
Jul-42	290	0	0	0	0	0	0	0	0	0	429	0	0	0	0	0	1,267,602	105.6
Aug-42	342	0	0	0	0	0	0	0	0	0	387	0	0	0	0	0	1,267,558	103.6
Sep-42	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,608	105.9
Oct-42	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,281	90.8
Nov-42	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-42	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3
Jan-43	0	0	0	0	0	0	0	0	0	0	58.74955	0	0	0	0	0	1.27E+06	73.5543
Feb-43	0	0	0	0	0	0	0	0	0	0	28.17003	0	0	0	0	0	1.27E+06	72.25903
Mar-43	0	0	0	0	0	0	0	0	0	0	16.10232	0	0	0	0	0	1.27E+06	71.51863
Apr-43	0	0	0	0	0	0	0	0	0	0	7.796044	0	0	0	0	0	1.27E+06	71.16016
May-43	0	0	0	0	0	0	0	0	0	0	4.040788	0	0	0	0	0	1.27E+06	70.97437
Jun-43	1152.762	0	0	0	0	0	0	0	0	0	256.3535	0	0	0	0	0	1.27E+06	112.1918

UNDERGROUND MINE																		
	INFLOWS									OUTFLOWS							STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon		m3	m
Date	Runoff	Groundwater	Whale Tail Lake (South Basin)	GSP-1	Lake C38 (Nemo Lake)	Recirculation	GSP-1 (Closure)	IVR Att Pond	GSP-2 (Closure)	Recirculation	Groundwater	Waste Rock	Underground Stope	GSP-1	GSP-2	Overflow	Pond Volume	Water Level
Jul-43	289.5346	0	0	0	0	0	0	0	0	0	430.2255	0	0	0	0	0	1.27E+06	105.7227
Aug-43	342.398	0	0	0	0	0	0	0	0	0	387.705	0	0	0	0	0	1.27E+06	103.6395
Sep-43	426.1638	0	0	0	0	0	0	0	0	0	377.0479	0	0	0	0	0	1.27E+06	105.8979
Oct-43	0	0	0	0	0	0	0	0	0	0	327.0847	0	0	0	0	0	1.27E+06	90.85831
Nov-43	0	0	0	0	0	0	0	0	0	0	204.1861	0	0	0	0	0	1.27E+06	81.46972
Dec-43	0	0	0	0	0	0	0	0	0	0	113.2205	0	0	0	0	0	1.27E+06	76.26377
Jan-44	0	0	0	0	0	0	0	0	0	0	58.8345	0	0	0	0	0	1.27E+06	73.55853
Feb-44	0	0	0	0	0	0	0	0	0	0	28.92849	0	0	0	0	0	1.27E+06	72.22838
Mar-44	0	0	0	0	0	0	0	0	0	0	15.76591	0	0	0	0	0	1.27E+06	71.50345
Apr-44	0	0	0	0	0	0	0	0	0	0	7.633167	0	0	0	0	0	1.27E+06	71.15247
May-44	0	0	0	0	0	0	0	0	0	0	3.956366	0	0	0	0	0	1.27E+06	70.97056
Jun-44	1152.998	0	0	0	0	0	0	0	0	0	256.3649	0	0	0	0	0	1.27E+06	112.1983
Jul-44	289.5346	0	0	0	0	0	0	0	0	0	430.2787	0	0	0	0	0	1.27E+06	105.7268
Aug-44	342.398	0	0	0	0	0	0	0	0	0	387.7381	0	0	0	0	0	1.27E+06	103.642
Sep-44	426.1638	0	0	0	0	0	0	0	0	0	377.0681	0	0	0	0	0	1.27E+06	105.8995
Oct-44	0	0	0	0	0	0	0	0	0	0	327.0966	0	0	0	0	0	1.27E+06	90.85938
Nov-44	0	0	0	0	0	0	0	0	0	0	204.1957	0	0	0	0	0	1.27E+06	81.47033
Dec-44	0	0	0	0	0	0	0	0	0	0	113.2269	0	0	0	0	0	1.27E+06	76.26409
Jan-45	0	0	0	0	0	0	0	0	0	0	58.83783	0	0	0	0	0	1.27E+06	73.55869
Feb-45	0	0	0	0	0	0	0	0	0	0	28.21408	0	0	0	0	0	1.27E+06	72.26139
Mar-45	0	0	0	0	0	0	0	0	0	0	16.12829	0	0	0	0	0	1.27E+06	71.51981
Apr-45	0	0	0	0	0	0	0	0	0	0	7.808618	0	0	0	0	0	1.27E+06	71.16076
May-45	0	0	0	0	0	0	0	0	0	0	4.047305	0	0	0	0	0	1.27E+06	70.97466
Jun-45	1152.762	0	0	0	0	0	0	0	0	0	256.3547	0	0	0	0	0	1.27E+06	112.192
Jul-45	289.5346	0	0	0	0	0	0	0	0	0	430.2275	0	0	0	0	0	1.27E+06	105.7229
Aug-45	342.398	0	0	0	0	0	0	0	0	0	387.7062	0	0	0	0	0	1.27E+06	103.6396
Sep-45	426.1638	0	0	0	0	0	0	0	0	0	377.0486	0	0	0	0	0	1.27E+06	105.8979
Oct-45	0	0	0	0	0	0	0	0	0	0	327.0851	0	0	0	0	0	1.27E+06	90.85836
Nov-45	0	0	0	0	0	0	0	0	0	0	204.1864	0	0	0	0	0	1.27E+06	81.46974
Dec-45	0	0	0	0	0	0	0	0	0	0	113.2207	0	0	0	0	0	1.27E+06	76.26379
Jan-46	0	0	0	0	0	0	0	0	0	0	58.83462	0	0	0	0	0	1.27E+06	73.55853
Feb-46	0	0	0	0	0	0	0	0	0	0	28.21247	0	0	0	0	0	1.27E+06	72.26131
Mar-46	0	0	0	0	0	0	0	0	0	0	16.12735	0	0	0	0	0	1.27E+06	71.51976
Apr-46	0	0	0	0	0	0	0	0	0	0	7.80816	0	0	0	0	0	1.27E+06	71.16074
May-46	0	0	0	0	0	0	0	0	0	0	4.047068	0	0	0	0	0	1.27E+06	70.97465
Jun-46	1152.762	0	0	0	0	0	0	0	0	0	256.3539	0	0	0	0	0	1.27E+06	112.1921
Jul-46	289.5346	0	0	0	0	0	0	0	0	0	430.2277	0	0	0	0	0	1.27E+06	105.7229
Aug-46	342.398	0	0	0	0	0	0	0	0	0	387.7064	0	0	0	0	0	1.27E+06	103.6396
Sep-46	426.1638	0	0	0	0	0	0	0	0	0	377.0487	0	0	0	0	0	1.27E+06	105.8979
Oct-46	0	0	0	0	0	0	0	0	0	0	327.0851	0	0	0	0	0	1.27E+06	90.85836
Nov-46	0	0	0	0	0	0	0	0	0	0	204.1865	0	0	0	0	0	1.27E+06	81.46974
Dec-46	0	0	0	0	0	0	0	0	0	0	113.2207	0	0	0	0	0	1.27E+06	76.26379
Jan-47	0	0	0	0	0	0	0	0	0	0	58.83463	0	0	0	0	0	1.27E+06	73.55853
Feb-47	0	0	0	0	0	0	0	0	0	0	28.21248	0	0	0	0	0	1.27E+06	72.26131
Mar-47	0	0	0	0	0	0	0	0	0	0	16.12735	0	0	0	0	0	1.27E+06	71.51976
Apr-47	0	0	0	0	0	0	0	0	0	0	7.808162	0	0	0	0	0	1.27E+06	71.16074
May-47	0	0	0	0	0	0	0	0	0	0	4.047069	0	0	0	0	0	1.27E+06	70.97465
Jun-47	1152.762	0	0	0	0	0	0	0	0	0	256.3944	0	0	0	0	0	1.27E+06	112.1902
Jul-47	289.5346	0	0	0	0	0	0	0	0	0	430.2125	0	0	0	0	0	1.27E+06	105.7217
Aug-47	342.398	0	0	0	0	0	0	0	0	0	387.6969	0	0	0	0	0	1.27E+06	103.6389
Sep-47	426.1638	0	0	0	0	0	0	0	0	0	377.043	0	0	0	0	0	1.27E+06	105.8975

UNDERGROUND MINE																		
	INFLOWS									OUTFLOWS							STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon		m3	m
Date	Runoff	Groundwater	Whale Tail Lake (South Basin)	GSP-1	Lake C38 (Nemo Lake)	Recirculation	GSP-1 (Closure)	IVR Att Pond	GSP-2 (Closure)	Recirculation	Groundwater	Waste Rock	Underground Stope	GSP-1	GSP-2	Overflow	Pond Volume	Water Level
Oct-47	0	0	0	0	0	0	0	0	0	0	327.0817	0	0	0	0	0	1.27E+06	90.85806
Nov-47	0	0	0	0	0	0	0	0	0	0	204.1837	0	0	0	0	0	1.27E+06	81.46957
Dec-47	0	0	0	0	0	0	0	0	0	0	113.2189	0	0	0	0	0	1.27E+06	76.26369
Jan-48	0	0	0	0	0	0	0	0	0	0	58.83368	0	0	0	0	0	1.27E+06	73.55849
Feb-48	0	0	0	0	0	0	0	0	0	0	28.92807	0	0	0	0	0	1.27E+06	72.22836
Mar-48	0	0	0	0	0	0	0	0	0	0	15.76567	0	0	0	0	0	1.27E+06	71.50344
Apr-48	0	0	0	0	0	0	0	0	0	0	7.633053	0	0	0	0	0	1.27E+06	71.15247
May-48	0	0	0	0	0	0	0	0	0	0	3.956307	0	0	0	0	0	1.27E+06	70.97056
Jun-48	1152.998	0	0	0	0	0	0	0	0	0	256.3619	0	0	0	0	0	1.27E+06	112.1984
Jul-48	289.5346	0	0	0	0	0	0	0	0	0	430.2798	0	0	0	0	0	1.27E+06	105.7269
Aug-48	342.398	0	0	0	0	0	0	0	0	0	387.7389	0	0	0	0	0	1.27E+06	103.6421
Sep-48	426.1638	0	0	0	0	0	0	0	0	0	377.0685	0	0	0	0	0	1.27E+06	105.8995
Oct-48	0	0	0	0	0	0	0	0	0	0	327.0968	0	0	0	0	0	1.27E+06	90.8594
Nov-48	0	0	0	0	0	0	0	0	0	0	204.1959	0	0	0	0	0	1.27E+06	81.47034
Dec-48	0	0	0	0	0	0	0	0	0	0	113.227	0	0	0	0	0	1.27E+06	76.2641
Jan-49	0	0	0	0	0	0	0	0	0	0	58.8379	0	0	0	0	0	1.27E+06	73.55869
Feb-49	0	0	0	0	0	0	0	0	0	0	28.21411	0	0	0	0	0	1.27E+06	72.26139
Mar-49	0	0	0	0	0	0	0	0	0	0	16.12831	0	0	0	0	0	1.27E+06	71.51981
Apr-49	0	0	0	0	0	0	0	0	0	0	7.808627	0	0	0	0	0	1.27E+06	71.16076
May-49	0	0	0	0	0	0	0	0	0	0	4.04731	0	0	0	0	0	1.27E+06	70.97466
Jun-49	1152.762	0	0	0	0	0	0	0	0	0	256.3516	0	0	0	0	0	1.27E+06	112.1922
Jul-49	289.5346	0	0	0	0	0	0	0	0	0	430.2287	0	0	0	0	0	1.27E+06	105.723
Aug-49	342.398	0	0	0	0	0	0	0	0	0	387.707	0	0	0	0	0	1.27E+06	103.6396
Sep-49	426.1638	0	0	0	0	0	0	0	0	0	377.0491	0	0	0	0	0	1.27E+06	105.898
Oct-49	0	0	0	0	0	0	0	0	0	0	327.0853	0	0	0	0	0	1.27E+06	90.85838
Nov-49	0	0	0	0	0	0	0	0	0	0	204.1866	0	0	0	0	0	1.27E+06	81.46976
Dec-49	0	0	0	0	0	0	0	0	0	0	113.2208	0	0	0	0	0	1.27E+06	76.26379
Jan-50	0	0	0	0	0	0	0	0	0	0	58.83469	0	0	0	0	0	1.27E+06	73.55853
Feb-50	0	0	0	0	0	0	0	0	0	0	28.21251	0	0	0	0	0	1.27E+06	72.26131
Mar-50	0	0	0	0	0	0	0	0	0	0	16.12737	0	0	0	0	0	1.27E+06	71.51976
Apr-50	0	0	0	0	0	0	0	0	0	0	7.808171	0	0	0	0	0	1.27E+06	71.16074
May-50	0	0	0	0	0	0	0	0	0	0	4.047073	0	0	0	0	0	1.27E+06	70.97465
Jun-50	1152.762	0	0	0	0	0	0	0	0	0	256.3507	0	0	0	0	0	1.27E+06	112.1922
Jul-50	289.5346	0	0	0	0	0	0	0	0	0	430.2289	0	0	0	0	0	1.27E+06	105.723
Aug-50	342.398	0	0	0	0	0	0	0	0	0	387.7072	0	0	0	0	0	1.27E+06	103.6396
Sep-50	426.1638	0	0	0	0	0	0	0	0	0	377.0492	0	0	0	0	0	1.27E+06	105.898
Oct-50	0	0	0	0	0	0	0	0	0	0	327.0854	0	0	0	0	0	1.27E+06	90.85838
Nov-50	0	0	0	0	0	0	0	0	0	0	204.1867	0	0	0	0	0	1.27E+06	81.46976
Dec-50	0	0	0	0	0	0	0	0	0	0	110.607	0	0	0	0	0	1.27E+06	76.38398

GROUNDWATER STORAGE POND 2 (Formerly BRACKISH WATER)

	INFLOWS		OUTFLOWS			STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Overflow from UG Sump	Evaporation	RO	Natural Overflow	Pond Volume	Water Level
Jan-18	0	0	0	0	0	0	142
Feb-18	0	0	0	0	0	0	142
Mar-18	0	0	0	0	0	0	142
Apr-18	0	0	0	0	0	0	142
May-18	0	0	0	0	0	0	142
Jun-18	0	0	0	0	0	0	142
Jul-18	0	0	0	0	0	0	142
Aug-18	0	0	0	0	0	0	142
Sep-18	0	0	0	0	0	0	142
Oct-18	0	0	0	0	0	0	142
Nov-18	0	0	0	0	0	0	142
Dec-18	0	0	0	0	0	0	142
Jan-19	0	0	0	0	0	0	142
Feb-19	0	0	0	0	0	0	142
Mar-19	0	0	0	0	0	0	142
Apr-19	0	0	0	0	0	0	142
May-19	0	0	0	0	0	0	142
Jun-19	0	0	0	0	0	0	142
Jul-19	0	0	0	0	0	0	142
Aug-19	0	0	0	0	0	0	142
Sep-19	0	0	0	0	0	0	142
Oct-19	0	0	0	0	0	0	142
Nov-19	0	0	0	0	0	0	142
Dec-19	0	0	0	0	0	0	142
Jan-20	0	0	0	0	0	0	142
Feb-20	0	0	0	0	0	0	142
Mar-20	0	0	0	0	0	0	142
Apr-20	0	0	0	0	0	0	142
May-20	0	0	0	0	0	0	142
Jun-20	0	0	0	0	0	0	142
Jul-20	0	0	0	0	0	0	142
Aug-20	0	0	0	0	0	0	142
Sep-20	0	0	0	0	0	0	142
Oct-20	0	0	0	0	0	0	142
Nov-20	0	0	0	0	0	0	142
Dec-20	0	0	0	0	0	0	142
Jan-21	0	0	0	0	0	0	142
Feb-21	0	0	0	0	0	0	142
Mar-21	0	0	0	0	0	0	142
Apr-21	0	0	0	0	0	0	142
May-21	0	0	0	0	0	0	142
Jun-21	0	0	0	0	0	0	142

GROUNDWATER STORAGE POND 2 (Formerly BRACKISH WATER)

	INFLOWS		OUTFLOWS			STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Overflow from UG Sump	Evaporation	RO	Natural Overflow	Pond Volume	Water Level
Jul-21	0	0	0	0	0	0	142
Aug-21	0	0	0	0	0	0	142
Sep-21	0	0	0	0	0	0	142
Oct-21	0	0	0	0	0	0	142
Nov-21	0	0	0	0	0	0	142
Dec-21	0	0	0	0	0	0	142
Jan-22	0	0	0	0	0	0	142
Feb-22	0	0	0	0	0	0	142
Mar-22	0	0	0	0	0	0	142
Apr-22	0	0	0	0	0	0	142
May-22	0	5,645	0	0	0	5,645	143
Jun-22	6,618	6,797	38	18,022	0	1,000	142
Jul-22	856	6,122	253	6,726	0	1,000	142
Aug-22	1,163	6,175	255	7,083	0	1,000	142
Sep-22	2,149	6,071	99	8,121	0	1,000	142
Oct-22	0	5,833	0	0	0	6,833	143
Nov-22	0	5,645	0	0	0	12,477	143
Dec-22	0	5,833	0	0	0	18,310	144
Jan-23	0	11,567	0	0	0	29,877	144
Feb-23	0	10,323	0	0	0	40,200	145
Mar-23	0	11,429	0	0	0	51,629	145
Apr-23	0	11,060	0	0	0	62,689	146
May-23	0	11,429	0	0	0	74,118	147
Jun-23	6,661	12,213	165	30,000	0	62,826	146
Jul-23	1,377	11,718	1,865	31,000	0	43,058	145
Aug-23	1,678	11,771	1,863	31,000	0	23,643	144
Sep-23	2,349	11,486	714	30,000	0	6,764	143
Oct-23	0	11,429	0	0	0	18,193	144
Nov-23	0	11,060	0	0	0	29,253	144
Dec-23	0	11,429	0	0	0	40,682	145
Jan-24	0	11,675	0	0	0	52,357	145
Feb-24	0	10,706	0	0	0	63,063	146
Mar-24	0	11,445	0	0	0	74,508	147
Apr-24	0	11,075	0	0	0	85,583	147
May-24	0	11,445	0	0	0	97,028	148
Jun-24	6,663	12,228	167	30,000	0	85,751	147
Jul-24	1,385	11,734	1,888	31,000	0	65,982	146
Aug-24	1,685	11,787	1,887	31,000	0	46,567	145
Sep-24	2,352	11,502	723	30,000	0	29,697	144
Oct-24	0	11,445	0	0	0	41,142	145
Nov-24	0	11,075	0	0	0	52,217	145
Dec-24	0	11,445	0	0	0	63,662	146

GROUNDWATER STORAGE POND 2 (Formerly BRACKISH WATER)

	INFLOWS		OUTFLOWS			STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Overflow from UG Sump	Evaporation	RO	Natural Overflow	Pond Volume	Water Level
Jan-25	0	10,815	0	0	0	74,477	147
Feb-25	0	9,520	0	0	0	83,997	147
Mar-25	0	10,540	0	0	0	94,537	148
Apr-25	0	10,200	0	0	0	104,737	148
May-25	0	10,540	0	0	0	115,277	149
Jun-25	6,662	11,353	169	30,000	0	103,123	148
Jul-25	1,390	10,830	1,905	31,000	0	82,437	147
Aug-25	1,690	10,882	1,903	31,000	0	62,107	146
Sep-25	2,353	10,626	729	30,000	0	44,357	145
Oct-25	0	10,540	0	0	0	54,897	146
Nov-25	0	10,200	0	0	0	65,097	146
Dec-25	0	10,540	0	0	0	75,637	147
Jan-26	0	0	0	0	75,637	0	142
Feb-26	0	0	0	0	0	0	142
Mar-26	0	0	0	0	0	0	142
Apr-26	0	0	0	0	0	0	142
May-26	0	0	0	0	0	0	142
Jun-26	6,605	0	0	0	6,605	0	142
Jul-26	775	0	0	0	775	0	142
Aug-26	1,081	0	0	0	1,081	0	142
Sep-26	2,116	0	0	0	2,116	0	142
Oct-26	0	0	0	0	0	0	142
Nov-26	0	0	0	0	0	0	142
Dec-26	0	0	0	0	0	0	142
Jan-27	0	0	0	0	0	0	142
Feb-27	0	0	0	0	0	0	142
Mar-27	0	0	0	0	0	0	142
Apr-27	0	0	0	0	0	0	142
May-27	0	0	0	0	0	0	142
Jun-27	6,605	0	0	0	6,605	0	142
Jul-27	775	0	0	0	775	0	142
Aug-27	1,081	0	0	0	1,081	0	142
Sep-27	2,116	0	0	0	2,116	0	142
Oct-27	0	0	0	0	0	0	142
Nov-27	0	0	0	0	0	0	142
Dec-27	0	0	0	0	0	0	142
Jan-28	0	0	0	0	0	0	142
Feb-28	0	0	0	0	0	0	142
Mar-28	0	0	0	0	0	0	142
Apr-28	0	0	0	0	0	0	142
May-28	0	0	0	0	0	0	142
Jun-28	6,607	0	0	0	6,607	0	142

GROUNDWATER STORAGE POND 2 (Formerly BRACKISH WATER)

	INFLOWS		OUTFLOWS			STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Overflow from UG Sump	Evaporation	RO	Natural Overflow	Pond Volume	Water Level
Jul-28	775	0	0	0	775	0	142
Aug-28	1,081	0	0	0	1,081	0	142
Sep-28	2,116	0	0	0	2,116	0	142
Oct-28	0	0	0	0	0	0	142
Nov-28	0	0	0	0	0	0	142
Dec-28	0	0	0	0	0	0	142
Jan-29	0	0	0	0	0	0	142
Feb-29	0	0	0	0	0	0	142
Mar-29	0	0	0	0	0	0	142
Apr-29	0	0	0	0	0	0	142
May-29	0	0	0	0	0	0	142
Jun-29	6,605	0	0	0	6,605	0	142
Jul-29	775	0	0	0	775	0	142
Aug-29	1,081	0	0	0	1,081	0	142
Sep-29	2,116	0	0	0	2,116	0	142
Oct-29	0	0	0	0	0	0	142
Nov-29	0	0	0	0	0	0	142
Dec-29	0	0	0	0	0	0	142
Jan-30	0	0	0	0	0	0	142
Feb-30	0	0	0	0	0	0	142
Mar-30	0	0	0	0	0	0	142
Apr-30	0	0	0	0	0	0	142
May-30	0	0	0	0	0	0	142
Jun-30	6,605	0	0	0	6,605	0	142
Jul-30	775	0	0	0	775	0	142
Aug-30	1,081	0	0	0	1,081	0	142
Sep-30	2,116	0	0	0	2,116	0	142
Oct-30	0	0	0	0	0	0	142
Nov-30	0	0	0	0	0	0	142
Dec-30	0	0	0	0	0	0	142
Jan-31	0	0	0	0	0	0	142
Feb-31	0	0	0	0	0	0	142
Mar-31	0	0	0	0	0	0	142
Apr-31	0	0	0	0	0	0	142
May-31	0	0	0	0	0	0	142
Jun-31	6,605	0	0	0	6,605	0	142
Jul-31	775	0	0	0	775	0	142
Aug-31	1,081	0	0	0	1,081	0	142
Sep-31	2,116	0	0	0	2,116	0	142
Oct-31	0	0	0	0	0	0	142
Nov-31	0	0	0	0	0	0	142
Dec-31	0	0	0	0	0	0	142

GROUNDWATER STORAGE POND 2 (Formerly BRACKISH WATER)

	INFLOWS		OUTFLOWS			STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Overflow from UG Sump	Evaporation	RO	Natural Overflow	Pond Volume	Water Level
Jan-32	0	0	0	0	0	0	142
Feb-32	0	0	0	0	0	0	142
Mar-32	0	0	0	0	0	0	142
Apr-32	0	0	0	0	0	0	142
May-32	0	0	0	0	0	0	142
Jun-32	6,607	0	0	0	6,607	0	142
Jul-32	775	0	0	0	775	0	142
Aug-32	1,081	0	0	0	1,081	0	142
Sep-32	2,116	0	0	0	2,116	0	142
Oct-32	0	0	0	0	0	0	142
Nov-32	0	0	0	0	0	0	142
Dec-32	0	0	0	0	0	0	142
Jan-33	0	0	0	0	0	0	142
Feb-33	0	0	0	0	0	0	142
Mar-33	0	0	0	0	0	0	142
Apr-33	0	0	0	0	0	0	142
May-33	0	0	0	0	0	0	142
Jun-33	6,605	0	0	0	6,605	0	142
Jul-33	775	0	0	0	775	0	142
Aug-33	1,081	0	0	0	1,081	0	142
Sep-33	2,116	0	0	0	2,116	0	142
Oct-33	0	0	0	0	0	0	142
Nov-33	0	0	0	0	0	0	142
Dec-33	0	0	0	0	0	0	142
Jan-34	0	0	0	0	0	0	142
Feb-34	0	0	0	0	0	0	142
Mar-34	0	0	0	0	0	0	142
Apr-34	0	0	0	0	0	0	142
May-34	0	0	0	0	0	0	142
Jun-34	6,605	0	0	0	6,605	0	142
Jul-34	775	0	0	0	775	0	142
Aug-34	1,081	0	0	0	1,081	0	142
Sep-34	2,116	0	0	0	2,116	0	142
Oct-34	0	0	0	0	0	0	142
Nov-34	0	0	0	0	0	0	142
Dec-34	0	0	0	0	0	0	142
Jan-35	0	0	0	0	0	0	142
Feb-35	0	0	0	0	0	0	142
Mar-35	0	0	0	0	0	0	142
Apr-35	0	0	0	0	0	0	142
May-35	0	0	0	0	0	0	142
Jun-35	6,605	0	0	0	6,605	0	142

GROUNDWATER STORAGE POND 2 (Formerly BRACKISH WATER)

	INFLOWS		OUTFLOWS			STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Overflow from UG Sump	Evaporation	RO	Natural Overflow	Pond Volume	Water Level
Jul-35	775	0	0	0	775	0	142
Aug-35	1,081	0	0	0	1,081	0	142
Sep-35	2,116	0	0	0	2,116	0	142
Oct-35	0	0	0	0	0	0	142
Nov-35	0	0	0	0	0	0	142
Dec-35	0	0	0	0	0	0	142
Jan-36	0	0	0	0	0	0	142
Feb-36	0	0	0	0	0	0	142
Mar-36	0	0	0	0	0	0	142
Apr-36	0	0	0	0	0	0	142
May-36	0	0	0	0	0	0	142
Jun-36	6,607	0	0	0	6,607	0	142
Jul-36	775	0	0	0	775	0	142
Aug-36	1,081	0	0	0	1,081	0	142
Sep-36	2,116	0	0	0	2,116	0	142
Oct-36	0	0	0	0	0	0	142
Nov-36	0	0	0	0	0	0	142
Dec-36	0	0	0	0	0	0	142
Jan-37	0	0	0	0	0	0	142
Feb-37	0	0	0	0	0	0	142
Mar-37	0	0	0	0	0	0	142
Apr-37	0	0	0	0	0	0	142
May-37	0	0	0	0	0	0	142
Jun-37	6,605	0	0	0	6,605	0	142
Jul-37	775	0	0	0	775	0	142
Aug-37	1,081	0	0	0	1,081	0	142
Sep-37	2,116	0	0	0	2,116	0	142
Oct-37	0	0	0	0	0	0	142
Nov-37	0	0	0	0	0	0	142
Dec-37	0	0	0	0	0	0	142
Jan-38	0	0	0	0	0	0	142
Feb-38	0	0	0	0	0	0	142
Mar-38	0	0	0	0	0	0	142
Apr-38	0	0	0	0	0	0	142
May-38	0	0	0	0	0	0	142
Jun-38	6,605	0	0	0	6,605	0	142
Jul-38	775	0	0	0	775	0	142
Aug-38	1,081	0	0	0	1,081	0	142
Sep-38	2,116	0	0	0	2,116	0	142
Oct-38	0	0	0	0	0	0	142
Nov-38	0	0	0	0	0	0	142
Dec-38	0	0	0	0	0	0	142

GROUNDWATER STORAGE POND 2 (Formerly BRACKISH WATER)

	INFLOWS		OUTFLOWS			STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Overflow from UG Sump	Evaporation	RO	Natural Overflow	Pond Volume	Water Level
Jan-39	0	0	0	0	0	0	142
Feb-39	0	0	0	0	0	0	142
Mar-39	0	0	0	0	0	0	142
Apr-39	0	0	0	0	0	0	142
May-39	0	0	0	0	0	0	142
Jun-39	6,605	0	0	0	6,605	0	142
Jul-39	775	0	0	0	775	0	142
Aug-39	1,081	0	0	0	1,081	0	142
Sep-39	2,116	0	0	0	2,116	0	142
Oct-39	0	0	0	0	0	0	142
Nov-39	0	0	0	0	0	0	142
Dec-39	0	0	0	0	0	0	142
Jan-40	0	0	0	0	0	0	142
Feb-40	0	0	0	0	0	0	142
Mar-40	0	0	0	0	0	0	142
Apr-40	0	0	0	0	0	0	142
May-40	0	0	0	0	0	0	142
Jun-40	6,607	0	0	0	6,607	0	142
Jul-40	775	0	0	0	775	0	142
Aug-40	1,081	0	0	0	1,081	0	142
Sep-40	2,116	0	0	0	2,116	0	142
Oct-40	0	0	0	0	0	0	142
Nov-40	0	0	0	0	0	0	142
Dec-40	0	0	0	0	0	0	142
Jan-41	0	0	0	0	0	0	142
Feb-41	0	0	0	0	0	0	142
Mar-41	0	0	0	0	0	0	142
Apr-41	0	0	0	0	0	0	142
May-41	0	0	0	0	0	0	142
Jun-41	6,605	0	0	0	6,605	0	142
Jul-41	775	0	0	0	775	0	142
Aug-41	1,081	0	0	0	1,081	0	142
Sep-41	2,116	0	0	0	2,116	0	142
Oct-41	0	0	0	0	0	0	142
Nov-41	0	0	0	0	0	0	142
Dec-41	0	0	0	0	0	0	142
Jan-42	0	0	0	0	0	0	142
Feb-42	0	0	0	0	0	0	142
Mar-42	0	0	0	0	0	0	142
Apr-42	0	0	0	0	0	0	142
May-42	0	0	0	0	0	0	142
Jun-42	6,605	0	0	0	6,605	0	142

GROUNDWATER STORAGE POND 2 (Formerly BRACKISH WATER)

	INFLOWS		OUTFLOWS			STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Overflow from UG Sump	Evaporation	RO	Natural Overflow	Pond Volume	Water Level
Jul-42	775	0	0	0	775	0	142
Aug-42	1,081	0	0	0	1,081	0	142
Sep-42	2,116	0	0	0	2,116	0	142
Oct-42	0	0	0	0	0	0	142
Nov-42	0	0	0	0	0	0	142
Dec-42	0	0	0	0	0	0	142
Jan-43	0	0	0	0	0	0	142
Feb-43	0	0	0	0	0	0	142
Mar-43	0	0	0	0	0	0	142
Apr-43	0	0	0	0	0	0	142
May-43	0	0	0	0	0	0	142
Jun-43	6605.419	0	0	0	6605.419	0	142
Jul-43	774.5894	0	0	0	774.5894	0	142
Aug-43	1081.267	0	0	0	1081.267	0	142
Sep-43	2116.477	0	0	0	2116.477	0	142
Oct-43	0	0	0	0	0	0	142
Nov-43	0	0	0	0	0	0	142
Dec-43	0	0	0	0	0	0	142
Jan-44	0	0	0	0	0	0	142
Feb-44	0	0	0	0	0	0	142
Mar-44	0	0	0	0	0	0	142
Apr-44	0	0	0	0	0	0	142
May-44	0	0	0	0	0	0	142
Jun-44	6606.786	0	0	0	6606.786	0	142
Jul-44	774.5894	0	0	0	774.5894	0	142
Aug-44	1081.267	0	0	0	1081.267	0	142
Sep-44	2116.477	0	0	0	2116.477	0	142
Oct-44	0	0	0	0	0	0	142
Nov-44	0	0	0	0	0	0	142
Dec-44	0	0	0	0	0	0	142
Jan-45	0	0	0	0	0	0	142
Feb-45	0	0	0	0	0	0	142
Mar-45	0	0	0	0	0	0	142
Apr-45	0	0	0	0	0	0	142
May-45	0	0	0	0	0	0	142
Jun-45	6605.419	0	0	0	6605.419	0	142
Jul-45	774.5894	0	0	0	774.5894	0	142
Aug-45	1081.267	0	0	0	1081.267	0	142
Sep-45	2116.477	0	0	0	2116.477	0	142
Oct-45	0	0	0	0	0	0	142
Nov-45	0	0	0	0	0	0	142
Dec-45	0	0	0	0	0	0	142

GROUNDWATER STORAGE POND 2 (Formerly BRACKISH WATER)

	INFLOWS		OUTFLOWS			STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Overflow from UG Sump	Evaporation	RO	Natural Overflow	Pond Volume	Water Level
Jan-46	0	0	0	0	0	0	142
Feb-46	0	0	0	0	0	0	142
Mar-46	0	0	0	0	0	0	142
Apr-46	0	0	0	0	0	0	142
May-46	0	0	0	0	0	0	142
Jun-46	6605.419	0	0	0	6605.419	0	142
Jul-46	774.5894	0	0	0	774.5894	0	142
Aug-46	1081.267	0	0	0	1081.267	0	142
Sep-46	2116.477	0	0	0	2116.477	0	142
Oct-46	0	0	0	0	0	0	142
Nov-46	0	0	0	0	0	0	142
Dec-46	0	0	0	0	0	0	142
Jan-47	0	0	0	0	0	0	142
Feb-47	0	0	0	0	0	0	142
Mar-47	0	0	0	0	0	0	142
Apr-47	0	0	0	0	0	0	142
May-47	0	0	0	0	0	0	142
Jun-47	6605.419	0	0	0	6605.419	0	142
Jul-47	774.5894	0	0	0	774.5894	0	142
Aug-47	1081.267	0	0	0	1081.267	0	142
Sep-47	2116.477	0	0	0	2116.477	0	142
Oct-47	0	0	0	0	0	0	142
Nov-47	0	0	0	0	0	0	142
Dec-47	0	0	0	0	0	0	142
Jan-48	0	0	0	0	0	0	142
Feb-48	0	0	0	0	0	0	142
Mar-48	0	0	0	0	0	0	142
Apr-48	0	0	0	0	0	0	142
May-48	0	0	0	0	0	0	142
Jun-48	6606.786	0	0	0	6606.786	0	142
Jul-48	774.5894	0	0	0	774.5894	0	142
Aug-48	1081.267	0	0	0	1081.267	0	142
Sep-48	2116.477	0	0	0	2116.477	0	142
Oct-48	0	0	0	0	0	0	142
Nov-48	0	0	0	0	0	0	142
Dec-48	0	0	0	0	0	0	142
Jan-49	0	0	0	0	0	0	142
Feb-49	0	0	0	0	0	0	142
Mar-49	0	0	0	0	0	0	142
Apr-49	0	0	0	0	0	0	142
May-49	0	0	0	0	0	0	142
Jun-49	6605.419	0	0	0	6605.419	0	142

GROUNDWATER STORAGE POND 2 (Formerly BRACKISH WATER)

	INFLOWS		OUTFLOWS			STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Overflow from UG Sump	Evaporation	RO	Natural Overflow	Pond Volume	Water Level
Jul-49	774.5894	0	0	0	774.5894	0	142
Aug-49	1081.267	0	0	0	1081.267	0	142
Sep-49	2116.477	0	0	0	2116.477	0	142
Oct-49	0	0	0	0	0	0	142
Nov-49	0	0	0	0	0	0	142
Dec-49	0	0	0	0	0	0	142
Jan-50	0	0	0	0	0	0	142
Feb-50	0	0	0	0	0	0	142
Mar-50	0	0	0	0	0	0	142
Apr-50	0	0	0	0	0	0	142
May-50	0	0	0	0	0	0	142
Jun-50	6605.419	0	0	0	6605.419	0	142
Jul-50	774.5894	0	0	0	774.5894	0	142
Aug-50	1081.267	0	0	0	1081.267	0	142
Sep-50	2116.477	0	0	0	2116.477	0	142
Oct-50	0	0	0	0	0	0	142
Nov-50	0	0	0	0	0	0	142
Dec-50	0	0	0	0	0	0	142

NORTHEAST SECTOR

	INFLOWS			OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m	m3
Date	Lake A49	Rain Runoff	SWE Runoff	Whale Tail Lake (North Basin)	Lake A16 (Mammoth Lake)	Lake C38 (Nemo Lake)	IVR Pit / Whale Tail Lake (North Basin)	Evaporation	Dewatering	Water Level	NE Lake Vol
Jan-18	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-18	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-18	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-18	0	0	0	0	0	0	0	0	0	154.40	33,786
May-18	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-18	32,676	66,590	137,029	235,933	0	0	0	362	0	154.40	33,786
Jul-18	1,521	25,194	0	22,599	0	0	0	4,115	0	154.40	33,786
Aug-18	3,013	34,642	0	33,497	0	0	0	4,157	0	154.40	33,786
Sep-18	9,624	65,727	0	73,742	0	0	0	1,609	0	154.40	33,786
Oct-18	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-18	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-18	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-19	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-19	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-19	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-19	0	0	0	0	0	0	0	0	0	154.40	33,786
May-19	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-19	32,675	66,590	137,028	0	235,932	0	0	362	0	154.40	33,786
Jul-19	1,521	25,194	0	0	22,599	0	0	4,115	0	154.40	33,786
Aug-19	3,013	34,642	0	0	33,497	0	0	4,157	0	154.40	33,786
Sep-19	9,624	65,727	0	0	73,742	0	0	1,609	0	154.40	33,786
Oct-19	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-19	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-19	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-20	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-20	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-20	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-20	0	0	0	0	0	0	0	0	0	154.40	33,786
May-20	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-20	32,682	66,590	137,070	0	235,981	0	0	362	0	154.40	33,786
Jul-20	0	8,559	0	0	0	8,559	0	0	0	154.40	33,786
Aug-20	0	11,948	0	0	0	11,948	0	0	0	154.40	33,786
Sep-20	0	23,387	0	0	0	23,387	0	0	0	154.40	33,786
Oct-20	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-20	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-20	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-21	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-21	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-21	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-21	0	0	0	0	0	0	0	0	0	154.40	33,786
May-21	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-21	0	23,841	49,149	0	0	72,990	0	0	0	154.40	33,786
Jul-21	0	8,559	0	0	0	8,559	0	0	0	154.40	33,786
Aug-21	0	11,948	0	0	0	11,948	0	0	0	154.40	33,786

NORTHEAST SECTOR

[illegible]

NORTHEAST SECTOR

	INFLOWS			OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m	m3
Date	Lake A49	Rain Runoff	SWE Runoff	Whale Tail Lake (North Basin)	Lake A16 (Mammoth Lake)	Lake C38 (Nemo Lake)	IVR Pit / Whale Tail Lake (North Basin)	Evaporation	Dewatering	Water Level	NE Lake Vol
May-25	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-25	0	23,841	49,149	0	0	72,990	0	0	0	154.40	33,786
Jul-25	0	8,559	0	0	0	8,559	0	0	0	154.40	33,786
Aug-25	0	11,948	0	0	0	11,948	0	0	0	154.40	33,786
Sep-25	0	23,387	0	0	0	23,387	0	0	0	154.40	33,786
Oct-25	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-25	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-25	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-26	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-26	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-26	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-26	0	0	0	0	0	0	0	0	0	154.40	33,786
May-26	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-26	0	23,841	49,149	0	0	0	72,990	0	0	154.40	33,786
Jul-26	0	8,559	0	0	0	0	8,559	0	0	154.40	33,786
Aug-26	0	11,948	0	0	0	0	11,948	0	0	154.40	33,786
Sep-26	0	23,387	0	0	0	0	23,387	0	0	154.40	33,786
Oct-26	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-26	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-26	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-27	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-27	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-27	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-27	0	0	0	0	0	0	0	0	0	154.40	33,786
May-27	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-27	0	23,841	49,149	0	0	0	72,990	0	0	154.40	33,786
Jul-27	0	8,559	0	0	0	0	8,559	0	0	154.40	33,786
Aug-27	0	11,948	0	0	0	0	11,948	0	0	154.40	33,786
Sep-27	0	23,387	0	0	0	0	23,387	0	0	154.40	33,786
Oct-27	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-27	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-27	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-28	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-28	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-28	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-28	0	0	0	0	0	0	0	0	0	154.40	33,786
May-28	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-28	0	23,841	49,164	0	0	0	73,006	0	0	154.40	33,786
Jul-28	0	8,559	0	0	0	0	8,559	0	0	154.40	33,786
Aug-28	0	11,948	0	0	0	0	11,948	0	0	154.40	33,786
Sep-28	0	23,387	0	0	0	0	23,387	0	0	154.40	33,786
Oct-28	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-28	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-28	0	0	0	0	0	0	0	0	0	154.40	33,786

NORTHEAST SECTOR

	INFLOWS			OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m	m3
Date	Lake A49	Rain Runoff	SWE Runoff	Whale Tail Lake (North Basin)	Lake A16 (Mammoth Lake)	Lake C38 (Nemo Lake)	IVR Pit / Whale Tail Lake (North Basin)	Evaporation	Dewatering	Water Level	NE Lake Vol
Jan-29	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-29	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-29	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-29	0	0	0	0	0	0	0	0	0	154.40	33,786
May-29	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-29	0	23,841	49,149	0	0	0	72,990	0	0	154.40	33,786
Jul-29	0	8,559	0	0	0	0	8,559	0	0	154.40	33,786
Aug-29	0	11,948	0	0	0	0	11,948	0	0	154.40	33,786
Sep-29	0	23,387	0	0	0	0	23,387	0	0	154.40	33,786
Oct-29	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-29	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-29	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-30	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-30	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-30	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-30	0	0	0	0	0	0	0	0	0	154.40	33,786
May-30	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-30	0	23,841	49,149	0	0	0	72,990	0	0	154.40	33,786
Jul-30	0	8,559	0	0	0	0	8,559	0	0	154.40	33,786
Aug-30	0	11,948	0	0	0	0	11,948	0	0	154.40	33,786
Sep-30	0	23,387	0	0	0	0	23,387	0	0	154.40	33,786
Oct-30	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-30	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-30	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-31	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-31	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-31	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-31	0	0	0	0	0	0	0	0	0	154.40	33,786
May-31	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-31	0	23,841	49,149	0	0	0	72,990	0	0	154.40	33,786
Jul-31	0	8,559	0	0	0	0	8,559	0	0	154.40	33,786
Aug-31	0	11,948	0	0	0	0	11,948	0	0	154.40	33,786
Sep-31	0	23,387	0	0	0	0	23,387	0	0	154.40	33,786
Oct-31	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-31	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-31	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-32	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-32	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-32	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-32	0	0	0	0	0	0	0	0	0	154.40	33,786
May-32	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-32	0	23,841	49,164	0	0	0	73,006	0	0	154.40	33,786
Jul-32	0	8,559	0	0	0	0	8,559	0	0	154.40	33,786
Aug-32	0	11,948	0	0	0	0	11,948	0	0	154.40	33,786

NORTHEAST SECTOR

[illegible]

NORTHEAST SECTOR

	INFLOWS			OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m	m3
Date	Lake A49	Rain Runoff	SWE Runoff	Whale Tail Lake (North Basin)	Lake A16 (Mammoth Lake)	Lake C38 (Nemo Lake)	IVR Pit / Whale Tail Lake (North Basin)	Evaporation	Dewatering	Water Level	NE Lake Vol
May-36	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-36	0	23,841	49,164	0	0	0	73,006	0	0	154.40	33,786
Jul-36	0	8,559	0	0	0	0	8,559	0	0	154.40	33,786
Aug-36	0	11,948	0	0	0	0	11,948	0	0	154.40	33,786
Sep-36	0	23,387	0	0	0	0	23,387	0	0	154.40	33,786
Oct-36	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-36	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-36	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-37	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-37	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-37	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-37	0	0	0	0	0	0	0	0	0	154.40	33,786
May-37	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-37	0	23,841	49,149	0	0	0	72,990	0	0	154.40	33,786
Jul-37	0	8,559	0	0	0	0	8,559	0	0	154.40	33,786
Aug-37	0	11,948	0	0	0	0	11,948	0	0	154.40	33,786
Sep-37	0	23,387	0	0	0	0	23,387	0	0	154.40	33,786
Oct-37	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-37	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-37	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-38	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-38	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-38	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-38	0	0	0	0	0	0	0	0	0	154.40	33,786
May-38	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-38	0	23,841	49,149	0	0	0	72,990	0	0	154.40	33,786
Jul-38	0	8,559	0	0	0	0	8,559	0	0	154.40	33,786
Aug-38	0	11,948	0	0	0	0	11,948	0	0	154.40	33,786
Sep-38	0	23,387	0	0	0	0	23,387	0	0	154.40	33,786
Oct-38	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-38	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-38	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-39	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-39	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-39	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-39	0	0	0	0	0	0	0	0	0	154.40	33,786
May-39	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-39	0	23,841	49,149	0	0	0	72,990	0	0	154.40	33,786
Jul-39	0	8,559	0	0	0	0	8,559	0	0	154.40	33,786
Aug-39	0	11,948	0	0	0	0	11,948	0	0	154.40	33,786
Sep-39	0	23,387	0	0	0	0	23,387	0	0	154.40	33,786
Oct-39	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-39	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-39	0	0	0	0	0	0	0	0	0	154.40	33,786

NORTHEAST SECTOR

	INFLOWS			OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m	m3
Date	Lake A49	Rain Runoff	SWE Runoff	Whale Tail Lake (North Basin)	Lake A16 (Mammoth Lake)	Lake C38 (Nemo Lake)	IVR Pit / Whale Tail Lake (North Basin)	Evaporation	Dewatering	Water Level	NE Lake Vol
Jan-40	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-40	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-40	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-40	0	0	0	0	0	0	0	0	0	154.40	33,786
May-40	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-40	0	23,841	49,164	0	0	0	73,006	0	0	154.40	33,786
Jul-40	0	8,559	0	0	0	0	8,559	0	0	154.40	33,786
Aug-40	0	11,948	0	0	0	0	11,948	0	0	154.40	33,786
Sep-40	0	23,387	0	0	0	0	23,387	0	0	154.40	33,786
Oct-40	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-40	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-40	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-41	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-41	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-41	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-41	0	0	0	0	0	0	0	0	0	154.40	33,786
May-41	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-41	0	23,841	49,149	0	0	0	72,990	0	0	154.40	33,786
Jul-41	0	8,559	0	0	0	0	8,559	0	0	154.40	33,786
Aug-41	0	11,948	0	0	0	0	11,948	0	0	154.40	33,786
Sep-41	0	23,387	0	0	0	0	23,387	0	0	154.40	33,786
Oct-41	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-41	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-41	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-42	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-42	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-42	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-42	0	0	0	0	0	0	0	0	0	154.40	33,786
May-42	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-42	0	23,841	49,149	0	0	0	72,990	0	0	154.40	33,786
Jul-42	0	8,559	0	0	0	0	8,559	0	0	154.40	33,786
Aug-42	0	11,948	0	0	0	0	11,948	0	0	154.40	33,786
Sep-42	0	23,387	0	0	0	0	23,387	0	0	154.40	33,786
Oct-42	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-42	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-42	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-43	0	0	0	0	0	0	0	0	0	154.4	33785.86
Feb-43	0	0	0	0	0	0	0	0	0	154.4	33785.86
Mar-43	0	0	0	0	0	0	0	0	0	154.4	33785.86
Apr-43	0	0	0	0	0	0	0	0	0	154.4	33785.86
May-43	0	0	0	0	0	0	0	0	0	154.4	33785.86
Jun-43	0	23841.29	49149.12	0	0	0	72990.41	0	0	154.4	33785.86
Jul-43	0	8559.275	0	0	0	0	8559.275	0	0	154.4	33785.86
Aug-43	0	11948.08	0	0	0	0	11948.08	0	0	154.4	33785.86

	INFLOWS			OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m	m3
Date	Lake A49	Rain Runoff	SWE Runoff	Whale Tail Lake (North Basin)	Lake A16 (Mammoth Lake)	Lake C38 (Nemo Lake)	IVR Pit / Whale Tail Lake (North Basin)	Evaporation	Dewatering	Water Level	NE Lake Vol
Sep-43	0	23387.24	0	0	0	0	23387.24	0	0	154.4	33785.86
Oct-43	0	0	0	0	0	0	0	0	0	154.4	33785.86
Nov-43	0	0	0	0	0	0	0	0	0	154.4	33785.86
Dec-43	0	0	0	0	0	0	0	0	0	154.4	33785.86
Jan-44	0	0	0	0	0	0	0	0	0	154.4	33785.86
Feb-44	0	0	0	0	0	0	0	0	0	154.4	33785.86
Mar-44	0	0	0	0	0	0	0	0	0	154.4	33785.86
Apr-44	0	0	0	0	0	0	0	0	0	154.4	33785.86
May-44	0	0	0	0	0	0	0	0	0	154.4	33785.86
Jun-44	0	23841.29	49164.22	0	0	0	73005.52	0	0	154.4	33785.86
Jul-44	0	8559.275	0	0	0	0	8559.275	0	0	154.4	33785.86
Aug-44	0	11948.08	0	0	0	0	11948.08	0	0	154.4	33785.86
Sep-44	0	23387.24	0	0	0	0	23387.24	0	0	154.4	33785.86
Oct-44	0	0	0	0	0	0	0	0	0	154.4	33785.86
Nov-44	0	0	0	0	0	0	0	0	0	154.4	33785.86
Dec-44	0	0	0	0	0	0	0	0	0	154.4	33785.86
Jan-45	0	0	0	0	0	0	0	0	0	154.4	33785.86
Feb-45	0	0	0	0	0	0	0	0	0	154.4	33785.86
Mar-45	0	0	0	0	0	0	0	0	0	154.4	33785.86
Apr-45	0	0	0	0	0	0	0	0	0	154.4	33785.86
May-45	0	0	0	0	0	0	0	0	0	154.4	33785.86
Jun-45	0	23841.29	49149.12	0	0	0	72990.41	0	0	154.4	33785.86
Jul-45	0	8559.275	0	0	0	0	8559.275	0	0	154.4	33785.86
Aug-45	0	11948.08	0	0	0	0	11948.08	0	0	154.4	33785.86
Sep-45	0	23387.24	0	0	0	0	23387.24	0	0	154.4	33785.86
Oct-45	0	0	0	0	0	0	0	0	0	154.4	33785.86
Nov-45	0	0	0	0	0	0	0	0	0	154.4	33785.86
Dec-45	0	0	0	0	0	0	0	0	0	154.4	33785.86
Jan-46	0	0	0	0	0	0	0	0	0	154.4	33785.86
Feb-46	0	0	0	0	0	0	0	0	0	154.4	33785.86
Mar-46	0	0	0	0	0	0	0	0	0	154.4	33785.86
Apr-46	0	0	0	0	0	0	0	0	0	154.4	33785.86
May-46	0	0	0	0	0	0	0	0	0	154.4	33785.86
Jun-46	0	23841.29	49149.12	0	0	0	72990.41	0	0	154.4	33785.86
Jul-46	0	8559.275	0	0	0	0	8559.275	0	0	154.4	33785.86
Aug-46	0	11948.08	0	0	0	0	11948.08	0	0	154.4	33785.86
Sep-46	0	23387.24	0	0	0	0	23387.24	0	0	154.4	33785.86
Oct-46	0	0	0	0	0	0	0	0	0	154.4	33785.86
Nov-46	0	0	0	0	0	0	0	0	0	154.4	33785.86
Dec-46	0	0	0	0	0	0	0	0	0	154.4	33785.86
Jan-47	0	0	0	0	0						

	INFLOWS			OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m	m3
Date	Lake A49	Rain Runoff	SWE Runoff	Whale Tail Lake (North Basin)	Lake A16 (Mammoth Lake)	Lake C38 (Nemo Lake)	IVR Pit / Whale Tail Lake (North Basin)	Evaporation	Dewatering	Water Level	NE Lake Vol
May-47	0	0	0	0	0	0	0	0	0	154.4	33785.86
Jun-47	0	23841.29	49149.12	0	0	0	72990.41	0	0	154.4	33785.86
Jul-47	0	8559.275	0	0	0	0	8559.275	0	0	154.4	33785.86
Aug-47	0	11948.08	0	0	0	0	11948.08	0	0	154.4	33785.86
Sep-47	0	23387.24	0	0	0	0	23387.24	0	0	154.4	33785.86
Oct-47	0	0	0	0	0	0	0	0	0	154.4	33785.86
Nov-47	0	0	0	0	0	0	0	0	0	154.4	33785.86
Dec-47	0	0	0	0	0	0	0	0	0	154.4	33785.86
Jan-48	0	0	0	0	0	0	0	0	0	154.4	33785.86
Feb-48	0	0	0	0	0	0	0	0	0	154.4	33785.86
Mar-48	0	0	0	0	0	0	0	0	0	154.4	33785.86
Apr-48	0	0	0	0	0	0	0	0	0	154.4	33785.86
May-48	0	0	0	0	0	0	0	0	0	154.4	33785.86
Jun-48	0	23841.29	49164.22	0	0	0	73005.52	0	0	154.4	33785.86
Jul-48	0	8559.275	0	0	0	0	8559.275	0	0	154.4	33785.86
Aug-48	0	11948.08	0	0	0	0	11948.08	0	0	154.4	33785.86
Sep-48	0	23387.24	0	0	0	0	23387.24	0	0	154.4	33785.86
Oct-48	0	0	0	0	0	0	0	0	0	154.4	33785.86
Nov-48	0	0	0	0	0	0	0	0	0	154.4	33785.86
Dec-48	0	0	0	0	0	0	0	0	0	154.4	33785.86
Jan-49	0	0	0	0	0	0	0	0	0	154.4	33785.86
Feb-49	0	0	0	0	0	0	0	0	0	154.4	33785.86
Mar-49	0	0	0	0	0	0	0	0	0	154.4	33785.86
Apr-49	0	0	0	0	0	0	0	0	0	154.4	33785.86
May-49	0	0	0	0	0	0	0	0	0	154.4	33785.86
Jun-49	0	23841.29	49149.12	0	0	0	72990.41	0	0	154.4	33785.86
Jul-49	0	8559.275	0	0	0	0	8559.275	0	0	154.4	33785.86
Aug-49	0	11948.08	0	0	0	0	11948.08	0	0	154.4	33785.86
Sep-49	0	23387.24	0	0	0	0	23387.24	0	0	154.4	33785.86
Oct-49	0	0	0	0	0	0	0	0	0	154.4	33785.86
Nov-49	0	0	0	0	0	0	0	0	0	154.4	33785.86
Dec-49	0	0	0	0	0	0	0	0	0	154.4	33785.86
Jan-50	0	0	0	0	0	0	0	0	0	154.4	33785.86
Feb-50	0	0	0	0	0	0	0	0	0	154.4	33785.86
Mar-50	0	0	0	0	0	0	0	0	0	154.4	33785.86
Apr-50	0	0	0	0	0	0	0	0	0	154.4	33785.86
May-50	0	0	0	0	0	0	0	0	0	154.4	33785.86
Jun-50	0	23841.29	49149.12	0	0	0	72990.41	0	0	154.4	33785.86
Jul-50	0	8559.275	0	0	0	0	8559.275	0	0	154.4	33785.86
Aug-50	0	11948.08	0	0	0	0	11948.08	0	0	154.4	33785.86
Sep-5											

WHALE TAIL WASTE ROCK STORAGE FACILITY CONTACT WATER COLLECTION SYSTEM

[illegible]

[illegible]

WHALE TAIL WASTE ROCK STORAGE FACILITY CONTACT WATER COLLECTION SYSTEM

	INFLOWS							OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon		m3/mon		m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Direct Precipitation	Whale Tail WRSF Runoff	Submarginal Runoff	Whale Tail WRSF Seepage	Submarginal Seepage	Overflow from WT ATT Pond	Evaporation	Lake A16 (Mammoth Lake)	Quarry 1	Whale Tail Attenuation Pond	IVR Attenuation Pond	IVR Pit	Volume	Water Level
Nov-24	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-24	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-25	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-25	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-25	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-25	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-25	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-25	24,329	1	887	99	0	0	0	0	0	0	0	25,316	0	1	154.0
Jul-25	2,853	0	64	7	0	0	0	1	0	0	0	2,923	0	1	154.0
Aug-25	3,983	1	64	7	0	0	0	1	0	0	0	4,053	0	1	154.0
Sep-25	7,795	0	21	2	0	0	0	0	0	0	0	7,818	0	1	154.0
Oct-25	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-25	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-25	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-26	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-26	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-26	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-26	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-26	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-26	24,329	1	928	58	0	0	0	0	0	0	0	0	25,316	1	154.0
Jul-26	2,853	0	68	4	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-26	3,983	1	68	3	0	0	0	1	0	0	0	0	4,053	1	154.0
Sep-26	7,795	0	22	1	0	0	0	0	0	0	0	0	7,818	1	154.0
Oct-26	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-26	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-26	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-27	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-27	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-27	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-27	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-27	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-27	24,329	1	986	0	0	0	0	0	0	0	0	0	25,316	1	154.0
Jul-27	2,853	0	71	0	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-27	3,983	1	71	0	0	0	0	1	0	0	0	0	4,053	1	154.0
Sep-27	7,795	0	23	0	0	0	0	0	0	0	0	0	7,818	1	154.0
Oct-27	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-27	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-27	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-28	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-28	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-28	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0

WHALE TAIL WASTE ROCK STORAGE FACILITY CONTACT WATER COLLECTION SYSTEM

	INFLOWS							OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon		m3/mon		m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Direct Precipitation	Whale Tail WRSF Runoff	Submarginal Runoff	Whale Tail WRSF Seepage	Submarginal Seepage	Overflow from WT ATT Pond	Evaporation	Lake A16 (Mammoth Lake)	Quarry 1	Whale Tail Attenuation Pond	IVR Attenuation Pond	IVR Pit	Volume	Water Level
Apr-28	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-28	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-28	24,334	1	986	0	0	0	0	0	0	0	0	0	25,321	1	154.0
Jul-28	2,853	0	71	0	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-28	3,983	1	71	0	0	0	0	1	0	0	0	0	4,053	1	154.0
Sep-28	7,795	0	23	0	0	0	0	0	0	0	0	0	7,818	1	154.0
Oct-28	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-28	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-28	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-29	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-29	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-29	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-29	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-29	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-29	24,329	1	986	0	0	0	0	0	0	0	0	0	25,316	1	154.0
Jul-29	2,853	0	71	0	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-29	3,983	1	71	0	0	0	0	1	0	0	0	0	4,053	1	154.0
Sep-29	7,795	0	23	0	0	0	0	0	0	0	0	0	7,818	1	154.0
Oct-29	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-29	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-29	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-30	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-30	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-30	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-30	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-30	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-30	24,329	1	986	0	0	0	0	0	0	0	0	0	25,316	1	154.0
Jul-30	2,853	0	71	0	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-30	3,983	1	71	0	0	0	0	1	0	0	0	0	4,053	1	154.0
Sep-30	7,795	0	23	0	0	0	0	0	0	0	0	0	7,818	1	154.0
Oct-30	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-30	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-30	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-31	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-31	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-31	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-31	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-31	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-31	24,329	1	986	0	0	0	0	0	0	0	0	0	25,316	1	154.0
Jul-31	2,853	0	71	0	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-31	3,983	1	71	0	0	0	0	1	0	0	0	0	4,053	1	154.0

WHALE TAIL WASTE ROCK STORAGE FACILITY CONTACT WATER COLLECTION SYSTEM

	INFLOWS							OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon		m3/mon		m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Direct Precipitation	Whale Tail WRSF Runoff	Submarginal Runoff	Whale Tail WRSF Seepage	Submarginal Seepage	Overflow from WT ATT Pond	Evaporation	Lake A16 (Mammoth Lake)	Quarry 1	Whale Tail Attenuation Pond	IVR Attenuation Pond	IVR Pit	Volume	Water Level
Sep-31	7,795	0	23	0	0	0	0	0	0	0	0	0	7,818	1	154.0
Oct-31	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-31	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-31	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-32	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-32	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-32	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-32	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-32	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-32	24,334	1	986	0	0	0	0	0	0	0	0	0	25,321	1	154.0
Jul-32	2,853	0	71	0	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-32	3,983	1	71	0	0	0	0	1	0	0	0	0	4,053	1	154.0
Sep-32	7,795	0	23	0	0	0	0	0	0	0	0	0	7,818	1	154.0
Oct-32	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-32	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-32	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-33	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-33	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-33	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-33	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-33	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-33	24,329	1	986	0	0	0	0	0	0	0	0	0	25,316	1	154.0
Jul-33	2,853	0	71	0	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-33	3,983	1	71	0	0	0	0	1	0	0	0	0	4,053	1	154.0
Sep-33	7,795	0	23	0	0	0	0	0	0	0	0	0	7,818	1	154.0
Oct-33	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-33	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-33	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-34	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-34	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-34	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-34	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-34	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-34	24,329	1	986	0	0	0	0	0	0	0	0	0	25,316	1	154.0
Jul-34	2,853	0	71	0	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-34	3,983	1	71	0	0	0	0	1	0	0	0	0	4,053	1	154.0
Sep-34	7,795	0	23	0	0	0	0	0	0	0	0	0	7,818	1	154.0
Oct-34	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-34	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-34	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-35	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0

WHALE TAIL WASTE ROCK STORAGE FACILITY CONTACT WATER COLLECTION SYSTEM

	INFLOWS							OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon		m3/mon		m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Direct Precipitation	Whale Tail WRSF Runoff	Submarginal Runoff	Whale Tail WRSF Seepage	Submarginal Seepage	Overflow from WT ATT Pond	Evaporation	Lake A16 (Mammoth Lake)	Quarry 1	Whale Tail Attenuation Pond	IVR Attenuation Pond	IVR Pit	Volume	Water Level
Feb-35	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-35	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-35	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-35	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-35	24,329	1	986	0	0	0	0	0	0	0	0	0	25,316	1	154.0
Jul-35	2,853	0	71	0	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-35	3,983	1	71	0	0	0	0	1	0	0	0	0	4,053	1	154.0
Sep-35	7,795	0	23	0	0	0	0	0	0	0	0	0	7,818	1	154.0
Oct-35	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-35	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-35	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-36	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-36	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-36	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-36	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-36	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-36	24,334	1	986	0	0	0	0	0	0	0	0	0	25,321	1	154.0
Jul-36	2,853	0	71	0	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-36	3,983	1	71	0	0	0	0	1	0	0	0	0	4,053	1	154.0
Sep-36	7,795	0	23	0	0	0	0	0	0	0	0	0	7,818	1	154.0
Oct-36	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-36	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-36	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-37	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-37	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-37	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-37	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-37	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-37	24,329	1	986	0	0	0	0	0	0	0	0	0	25,316	1	154.0
Jul-37	2,853	0	71	0	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-37	3,983	1	71	0	0	0	0	1	0	0	0	0	4,053	1	154.0
Sep-37	7,795	0	23	0	0	0	0	0	0	0	0	0	7,818	1	154.0
Oct-37	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-37	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-37	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-38	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-38	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-38	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-38	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-38	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-38	24,329	1	986	0	0	0	0	0	0	0	0	0	25,316	1	154.0

	INFLOWS							OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon		m3/mon		m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Direct Precipitation	Whale Tail WRSF Runoff	Submarginal Runoff	Whale Tail WRSF Seepage	Submarginal Seepage	Overflow from WT ATT Pond	Evaporation	Lake A16 (Mammoth Lake)	Quarry 1	Whale Tail Attenuation Pond	IVR Attenuation Pond	IVR Pit	Volume	Water Level
Jul-38	2,853	0	71	0	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-38	3,983	1	71	0	0	0	0	1	0	0	0	0	4,053	1	154.0
Sep-38	7,795	0	23	0	0	0	0	0	0	0	0	0	7,818	1	154.0
Oct-38	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-38	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-38	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-39	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-39	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-39	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-39	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-39	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-39	24,329	1	986	0	0	0	0	0	0	0	0	0	25,316	1	154.0
Jul-39	2,853	0	71	0	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-39	3,983	1	71	0	0	0	0	1	0	0	0	0	4,053	1	154.0
Sep-39	7,795	0	23	0	0	0	0	0	0	0	0	0	7,818	1	154.0
Oct-39	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-39	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-39	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-40	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-40	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-40	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-40	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-40	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-40	24,334	1	986	0	0	0	0	0	0	0	0	0	25,321	1	154.0
Jul-40	2,853	0	71	0	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-40	3,983	1	71	0	0	0	0	1	0	0	0	0	4,053	1	154.0
Sep-40	7,795	0	23	0	0	0	0	0	0	0	0	0	7,818	1	154.0
Oct-40	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-40	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-40	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-41	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-41	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-41	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-41	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-41	0	0	0	0											

WHALE TAIL WASTE ROCK STORAGE FACILITY CONTACT WATER COLLECTION SYSTEM

	INFLOWS							OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon		m3/mon		m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Direct Precipitation	Whale Tail WRSF Runoff	Submarginal Runoff	Whale Tail WRSF Seepage	Submarginal Seepage	Overflow from WT ATT Pond	Evaporation	Lake A16 (Mammoth Lake)	Quarry 1	Whale Tail Attenuation Pond	IVR Attenuation Pond	IVR Pit	Volume	Water Level
Dec-41	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-42	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-42	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-42	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-42	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-42	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-42	24,329	1	986	0	0	0	0	0	0	0	0	0	25,316	1	154.0
Jul-42	2,853	0	71	0	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-42	3,983	1	71	0	0	0	0	1	0	0	0	0	4,053	1	154.0
Sep-42	7,795	0	23	0	0	0	0	0	6,972	0	0	0	847	1	154.0
Oct-42	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-42	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-42	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-43	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Feb-43	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Mar-43	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Apr-43	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
May-43	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Jun-43	24329.03	1.134426	985.7013	0	0	0	0	0.09175947	25315.78	0	0	0	0	1	154
Jul-43	2852.962	0.4665736	71.06219	0	0	0	0	1.042999	2923.448	0	0	0	0	1	154
Aug-43	3982.514	0.5178228	71.06219	0	0	0	0	1.053535	4053.041	0	0	0	0	1	154
Sep-43	7795.393	0.4862283	22.92329	0	0	0	0	0.4078198	7818.394	0	0	0	0	1	154
Oct-43	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Nov-43	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Dec-43	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Jan-44	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Feb-44	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Mar-44	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Apr-44	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
May-44	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Jun-44	24334.07	1.134654	985.7013	0	0	0	0	0.09175947	25320.81	0	0	0	0	1	154
Jul-44	2852.962	0.4665736	71.06219	0	0	0	0	1.042999	2923.448	0	0	0	0	1	154
Aug-44	3982.514	0.5178228	71.06219	0	0	0	0	1.053535	4053.041	0	0	0	0	1	1

WHALE TAIL WASTE ROCK STORAGE FACILITY CONTACT WATER COLLECTION SYSTEM

	INFLOWS							OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon		m3/mon		m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Direct Precipitation	Whale Tail WRSF Runoff	Submarginal Runoff	Whale Tail WRSF Seepage	Submarginal Seepage	Overflow from WT ATT Pond	Evaporation	Lake A16 (Mammoth Lake)	Quarry 1	Whale Tail Attenuation Pond	IVR Attenuation Pond	IVR Pit	Volume	Water Level
May-45	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Jun-45	24329.03	1.134426	985.7013	0	0	0	0	0.09175947	25315.78	0	0	0	0	1	154
Jul-45	2852.962	0.4665736	71.06219	0	0	0	0	1.042999	2923.448	0	0	0	0	1	154
Aug-45	3982.514	0.5178228	71.06219	0	0	0	0	1.053535	4053.041	0	0	0	0	1	154
Sep-45	7795.393	0.4862283	22.92329	0	0	0	0	0.4078198	7818.394	0	0	0	0	1	154
Oct-45	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Nov-45	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Dec-45	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Jan-46	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Feb-46	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Mar-46	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Apr-46	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
May-46	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Jun-46	24329.03	1.134426	985.7013	0	0	0	0	0.09175947	25315.78	0	0	0	0	1	154
Jul-46	2852.962	0.4665736	71.06219	0	0	0	0	1.042999	2923.448	0	0	0	0	1	154
Aug-46	3982.514	0.5178228	71.06219	0	0	0	0	1.053535	4053.041	0	0	0	0	1	154
Sep-46	7795.393	0.4862283	22.92329	0	0	0	0	0.4078198	7818.394	0	0	0	0	1	154
Oct-46	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Nov-46	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Dec-46	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Jan-47	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Feb-47	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Mar-47	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Apr-47	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
May-47	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Jun-47	24329.03	1.134426	985.7013	0	0	0	0	0.09175947	25315.78	0	0	0	0	1	154
Jul-47	2852.962	0.4665736	71.06219	0	0	0	0	1.042999	2923.448	0	0	0	0	1	154
Aug-47	3982.514	0.5178228	71.06219	0	0	0	0	1.053535	4053.041	0	0	0	0	1	154
Sep-47	7795.393	0.4862283	22.92329	0	0	0	0	0.4078198	7818.394	0	0	0	0	1	154
Oct-47	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Nov-47	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Dec-47	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Jan-48	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Feb-48	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Mar-48	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Apr-48	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
May-48	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Jun-48	24334.07	1.134654	985.7013	0	0	0	0	0.09175947	25320.81	0	0	0	0	1	154
Jul-48	2852.962	0.4665736	71.06219	0	0	0	0	1.042999	2923.448	0	0	0	0	1	154
Aug-48	3982.514	0.5178228	71.06219	0	0	0	0	1.053535	4053.041	0	0	0	0	1	154
Sep-48	7795.393	0.4862283	22.92329	0	0	0	0	0.4078198	7818.394	0	0	0	0	1	154

WHALE TAIL WASTE ROCK STORAGE FACILITY CONTACT WATER COLLECTION SYSTEM

[illegible]

NORTH SECTOR

[illegible]

[illegible]

NORTH SECTOR

	INFLOWS					OUTFLOWS				STORAGE
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3
Date	Natural Rainfall Runoff	Natural SWE Runoff	Whale Tail WRSF Runoff	Whale Tail WRSF Seepage	Ore 4 Runoff	Evaporation	Whale Tail (North Basin) / Whale Tail Attenuation Pond	WT Pit	IVR Attenuation Pond	Storage
May-24	0	0	0	0	0	0	0	0	0	1
Jun-24	2,077	4,284	209	0	0	0	0	0	6,570	1
Jul-24	746	0	15	0	0	0	0	0	761	1
Aug-24	1,041	0	15	0	0	0	0	0	1,056	1
Sep-24	2,038	0	5	0	0	0	0	0	2,043	1
Oct-24	0	0	0	0	0	0	0	0	0	1
Nov-24	0	0	0	0	0	0	0	0	0	1
Dec-24	0	0	0	0	0	0	0	0	0	1
Jan-25	0	0	0	0	0	0	0	0	0	1
Feb-25	0	0	0	0	0	0	0	0	0	1
Mar-25	0	0	0	0	0	0	0	0	0	1
Apr-25	0	0	0	0	0	0	0	0	0	1
May-25	0	0	0	0	0	0	0	0	0	1
Jun-25	2,077	4,283	209	0	0	0	0	0	6,569	1
Jul-25	746	0	15	0	0	0	0	0	761	1
Aug-25	1,041	0	15	0	0	0	0	0	1,056	1
Sep-25	2,038	0	5	0	0	0	0	0	2,043	1
Oct-25	0	0	0	0	0	0	0	0	0	1
Nov-25	0	0	0	0	0	0	0	0	0	1
Dec-25	0	0	0	0	0	0	0	0	0	1
Jan-26	0	0	0	0	0	0	0	0	0	1
Feb-26	0	0	0	0	0	0	0	0	0	1
Mar-26	0	0	0	0	0	0	0	0	0	1
Apr-26	0	0	0	0	0	0	0	0	0	1
May-26	0	0	0	0	0	0	0	0	0	1
Jun-26	2,077	4,283	209	0	0	0	0	6,569	0	1
Jul-26	746	0	15	0	0	0	0	761	0	1
Aug-26	1,041	0	15	0	0	0	0	1,056	0	1
Sep-26	2,038	0	5	0	0	0	0	2,043	0	1
Oct-26	0	0	0	0	0	0	0	0	0	1
Nov-26	0	0	0	0	0	0	0	0	0	1
Dec-26	0	0	0	0	0	0	0	0	0	1
Jan-27	0	0	0	0	0	0	0	0	0	1
Feb-27	0	0	0	0	0	0	0	0	0	1
Mar-27	0	0	0	0	0	0	0	0	0	1
Apr-27	0	0	0	0	0	0	0	0	0	1
May-27	0	0	0	0	0	0	0	0	0	1
Jun-27	2,077	4,283	209	0	0	0	0	6,569	0	1

NORTH SECTOR

	INFLOWS					OUTFLOWS				STORAGE
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3
Date	Natural Rainfall Runoff	Natural SWE Runoff	Whale Tail WRSF Runoff	Whale Tail WRSF Seepage	Ore 4 Runoff	Evaporation	Whale Tail (North Basin) / Whale Tail Attenuation Pond	WT Pit	IVR Attenuation Pond	Storage
Jul-27	746	0	15	0	0	0	0	761	0	1
Aug-27	1,041	0	15	0	0	0	0	1,056	0	1
Sep-27	2,038	0	5	0	0	0	0	2,043	0	1
Oct-27	0	0	0	0	0	0	0	0	0	1
Nov-27	0	0	0	0	0	0	0	0	0	1
Dec-27	0	0	0	0	0	0	0	0	0	1
Jan-28	0	0	0	0	0	0	0	0	0	1
Feb-28	0	0	0	0	0	0	0	0	0	1
Mar-28	0	0	0	0	0	0	0	0	0	1
Apr-28	0	0	0	0	0	0	0	0	0	1
May-28	0	0	0	0	0	0	0	0	0	1
Jun-28	2,077	4,284	209	0	0	0	0	6,570	0	1
Jul-28	746	0	15	0	0	0	0	761	0	1
Aug-28	1,041	0	15	0	0	0	0	1,056	0	1
Sep-28	2,038	0	5	0	0	0	0	2,043	0	1
Oct-28	0	0	0	0	0	0	0	0	0	1
Nov-28	0	0	0	0	0	0	0	0	0	1
Dec-28	0	0	0	0	0	0	0	0	0	1
Jan-29	0	0	0	0	0	0	0	0	0	1
Feb-29	0	0	0	0	0	0	0	0	0	1
Mar-29	0	0	0	0	0	0	0	0	0	1
Apr-29	0	0	0	0	0	0	0	0	0	1
May-29	0	0	0	0	0	0	0	0	0	1
Jun-29	2,077	4,283	209	0	0	0	0	6,569	0	1
Jul-29	746	0	15	0	0	0	0	761	0	1
Aug-29	1,041	0	15	0	0	0	0	1,056	0	1
Sep-29	2,038	0	5	0	0	0	0	2,043	0	1
Oct-29	0	0	0	0	0	0	0	0	0	1
Nov-29	0	0	0	0	0	0	0	0	0	1
Dec-29	0	0	0	0	0	0	0	0	0	1
Jan-30	0	0	0	0	0	0	0	0	0	1
Feb-30	0	0	0	0	0	0	0	0	0	1
Mar-30	0	0	0	0	0	0	0	0	0	1
Apr-30	0	0	0	0	0	0	0	0	0	1
May-30	0	0	0	0	0	0	0	0	0	1
Jun-30	2,077	4,283	209	0	0	0	0	6,569	0	1
Jul-30	746	0	15	0	0	0	0	761	0	1
Aug-30	1,041	0	15	0	0	0	0	1,056	0	1

NORTH SECTOR

[illegible]

NORTH SECTOR

[illegible]

NORTH SECTOR

[illegible]

[illegible]

NORTH SECTOR

	INFLOWS					OUTFLOWS				STORAGE
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3
Date	Natural Rainfall Runoff	Natural SWE Runoff	Whale Tail WRSF Runoff	Whale Tail WRSF Seepage	Ore 4 Runoff	Evaporation	Whale Tail (North Basin) / Whale Tail Attenuation Pond	WT Pit	IVR Attenuation Pond	Storage
May-43	0	0	0	0	0	0	0	0	0	6
Jun-43	2077.399	4282.584	208.6629	0	0	0	0	6568.646	0	7
Jul-43	745.8082	0	15.04314	0	0	0	0	760.8514	0	8
Aug-43	1041.09	0	15.04314	0	0	0	0	1056.134	0	9
Sep-43	2037.835	0	4.852626	0	0	0	0	2042.688	0	10
Oct-43	0	0	0	0	0	0	0	0	0	11
Nov-43	0	0	0	0	0	0	0	0	0	12
Dec-43	0	0	0	0	0	0	0	0	0	13
Jan-44	0	0	0	0	0	0	0	0	0	14
Feb-44	0	0	0	0	0	0	0	0	0	15
Mar-44	0	0	0	0	0	0	0	0	0	16
Apr-44	0	0	0	0	0	0	0	0	0	17
May-44	0	0	0	0	0	0	0	0	0	18
Jun-44	2077.399	4283.9	208.6629	0	0	0	0	6569.962	0	19
Jul-44	745.8082	0	15.04314	0	0	0	0	760.8514	0	20
Aug-44	1041.09	0	15.04314	0	0	0	0	1056.134	0	21
Sep-44	2037.835	0	4.852626	0	0	0	0	2042.688	0	22
Oct-44	0	0	0	0	0	0	0	0	0	23
Nov-44	0	0	0	0	0	0	0	0	0	24
Dec-44	0	0	0	0	0	0	0	0	0	25
Jan-45	0	0	0	0	0	0	0	0	0	26
Feb-45	0	0	0	0	0	0	0	0	0	27
Mar-45	0	0	0	0	0	0	0	0	0	28
Apr-45	0	0	0	0	0	0	0	0	0	29
May-45	0	0	0	0	0	0	0	0	0	30
Jun-45	2077.399	4282.584	208.6629	0	0	0	0	6568.646	0	31
Jul-45	745.8082	0	15.04314	0	0	0	0	760.8514	0	32
Aug-45	1041.09	0	15.04314	0	0	0	0	1056.134	0	33
Sep-45	2037.835	0	4.852626	0	0	0	0	2042.688	0	34
Oct-45	0	0	0	0	0	0	0	0	0	35
Nov-45	0	0	0	0	0	0	0	0	0	36
Dec-45	0	0	0	0	0	0	0	0	0	37
Jan-46	0	0	0	0	0	0	0	0	0	38
Feb-46	0	0	0	0	0	0	0	0	0	39
Mar-46	0	0	0	0	0	0	0	0	0	40
Apr-46	0	0	0	0	0	0	0	0	0	41
May-46	0	0	0	0	0	0	0	0	0	42
Jun-46	2077.399	4282.584	208.6629	0	0	0	0	6568.646	0	43

NORTH SECTOR

	INFLOWS					OUTFLOWS				STORAGE
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3
Date	Natural Rainfall Runoff	Natural SWE Runoff	Whale Tail WRSF Runoff	Whale Tail WRSF Seepage	Ore 4 Runoff	Evaporation	Whale Tail (North Basin) / Whale Tail Attenuation Pond	WT Pit	IVR Attenuation Pond	Storage
Jul-46	745.8082	0	15.04314	0	0	0	0	760.8514	0	44
Aug-46	1041.09	0	15.04314	0	0	0	0	1056.134	0	45
Sep-46	2037.835	0	4.852626	0	0	0	0	2042.688	0	46
Oct-46	0	0	0	0	0	0	0	0	0	47
Nov-46	0	0	0	0	0	0	0	0	0	48
Dec-46	0	0	0	0	0	0	0	0	0	49
Jan-47	0	0	0	0	0	0	0	0	0	50
Feb-47	0	0	0	0	0	0	0	0	0	51
Mar-47	0	0	0	0	0	0	0	0	0	52
Apr-47	0	0	0	0	0	0	0	0	0	53
May-47	0	0	0	0	0	0	0	0	0	54
Jun-47	2077.399	4282.584	208.6629	0	0	0	0	6568.646	0	55
Jul-47	745.8082	0	15.04314	0	0	0	0	760.8514	0	56
Aug-47	1041.09	0	15.04314	0	0	0	0	1056.134	0	57
Sep-47	2037.835	0	4.852626	0	0	0	0	2042.688	0	58
Oct-47	0	0	0	0	0	0	0	0	0	59
Nov-47	0	0	0	0	0	0	0	0	0	60
Dec-47	0	0	0	0	0	0	0	0	0	61
Jan-48	0	0	0	0	0	0	0	0	0	62
Feb-48	0	0	0	0	0	0	0	0	0	63
Mar-48	0	0	0	0	0	0	0	0	0	64
Apr-48	0	0	0	0	0	0	0	0	0	65
May-48	0	0	0	0	0	0	0	0	0	66
Jun-48	2077.399	4283.9	208.6629	0	0	0	0	6569.962	0	67
Jul-48	745.8082	0	15.04314	0	0	0	0	760.8514	0	68
Aug-48	1041.09	0	15.04314	0	0	0	0	1056.134	0	69
Sep-48	2037.835	0	4.852626	0	0	0	0	2042.688	0	70
Oct-48	0	0	0	0	0	0	0	0	0	71
Nov-48	0	0	0	0	0	0	0	0	0	72
Dec-48	0	0	0	0	0	0	0	0	0	73
Jan-49	0	0	0	0	0	0	0	0	0	74
Feb-49	0	0	0	0	0	0	0	0	0	75
Mar-49	0	0	0	0	0	0	0	0	0	76
Apr-49	0	0	0	0	0	0	0	0	0	77
May-49	0	0	0	0	0	0	0	0	0	78
Jun-49	2077.399	4282.584	208.6629	0	0	0	0	6568.646	0	79
Jul-49	745.8082	0	15.04314	0	0	0	0	760.8514	0	80
Aug-49	1041.09	0	15.04314	0	0	0	0	1056.134	0	81

NORTH SECTOR

[illegible]

WHALE TAIL PIT

	INFLOWS														OUTFLOWS					STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon					m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m		
Date	Land Runoff	Lake Runoff	Pit Wall Runoff	Groundwater	Drilling Water	GSP-1	North Sector	IVR WRSF (Closure)	Overburden Runoff	Ore 4 Runoff	NPAG Runoff	IVR Pit Overflow	Whale Tail Attenuation Pond Overflow	Drawdown from WTN	Evaporation	Drill Water Loss	Groundwater	Whale Tail Attenuation Pond	IVR Attenuation Pond	Volume	Water Level
Jan-18																					
Feb-18																					
Mar-18																					
Apr-18																					
May-18																					
Jun-18																					
Jul-18																					
Aug-18																					
Sep-18																					
Oct-18																					
Nov-18																					
Dec-18																					
Jan-19																					
Feb-19																					
Mar-19																					
Apr-19																					
May-19																					
Jun-19	62,024	184	39,063	24,042	935	0	0	0	1,621	0	0	0	0	0	15	0	0	119,853	0	8,000	80.1
Jul-19	8,803	96	5,543	30,070	1,488	0	0	0	230	0	0	0	0	0	214	2,878	0	43,138	0	8,000	80.1
Aug-19	12,289	106	7,738	30,070	1,488	0	0	0	321	0	0	0	0	0	216	2,878	0	48,918	0	8,000	80.1
Sep-19	24,054	100	15,146	29,100	1,440	0	0	0	629	0	0	0	0	0	84	2,696	0	67,690	0	8,000	80.1
Oct-19	0	0	0	30,070	1,488	0	0	0	0	0	0	0	0	0	0	2,878	0	28,680	0	8,000	80.1
Nov-19	0	0	0	29,100	1,440	0	0	0	0	0	0	0	0	0	0	2,696	0	27,844	0	8,000	80.1
Dec-19	0	0	0	30,070	1,488	0	0	0	0	0	0	0	0	0	0	2,878	0	28,680	0	8,000	47.1
Jan-20	0	0	0	36,270	1,488	0	0	0	0	0	0	0	0	0	0	2,878	0	34,880	0	8,000	47.1
Feb-20	0	0	0	33,930	1,392	0	0	0	0	0	0	0	0	0	0	2,519	0	32,803	0	8,000	47.1
Mar-20	0	0	0	36,270	1,488	0	0	0	0	0	0	0	0	0	0	2,878	0	34,880	0	8,000	47.1
Apr-20	0	0	0	35,100	1,440	0	0	0	0	0	0	0	0	0	0	2,696	0	33,844	0	8,000	47.1
May-20	0	0	0	36,270	1,488	0	0	0	0	0	0	0	0	0	0	2,878	0	34,880	0	8,000	47.1
Jun-20	61,970	797	59,849	35,100	1,440	0	0	0	1,963	0	0	0	0	0	64	2,696	0	158,359	0	8,000	47.1
Jul-20	7,265	328	7,017	36,270	1,488	0	0	0	230	0	0	0	0	0	733	1,439	0	50,426	0	8,000	47.1
Aug-20	10,142	364	9,795	36,270	1,488	0	0	0	321	0	0	0	0	0	740	1,439	0	56,201	0	8,000	47.1
Sep-20	19,852	342	19,173	35,100	1,440	0	0	0	629	0	0	0	0	0	287	1,348	0	74,901	0	8,000	47.1
Oct-20	0	0	0	36,270	1,488	0	0	0	0	0	0	0	0	0	0	1,439	0	36,319	0	8,000	47.1
Nov-20	0	0	0	35,100	1,440	0	0	0	0	0	0	0	0	0	0	1,348	0	35,192	0	8,000	47.1
Dec-20	0	0	0	36,270	1,488	0	0	0	0	0	0	0	0	0	0	1,439	0	36,319	0	8,000	2.0
Jan-21	0	0	0	40,920	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	40,654	0	8,000	2.0
Feb-21	0	0	0	36,960	1,344	0	0	0	0	0	0	0	0	0	0	1,431	0	36,873	0	8,000	2.0
Mar-21	0	0	0	40,920	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	40,654	0	8,000	2.0
Apr-21	0	0	0	39,600	1,440	0	0	0	0	0	0	0	0	0	0	1,643	0	39,397	0	8,000	2.0
May-21	0	0	0	40,920	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	40,654	0	8,000	2.0
Jun-21	61,958	310	60,310	39,600	1,440	0	0	0	1,962	0	0	0	0	0	25	1,643	0	163,913	0	8,000	2.0
Jul-21	7,265	128	7,072	40,920	1,488	0	0	0	230	0	0	0	0	0	285	1,754	0	55,064	0	8,000	2.0
Aug-21	10,142	142	9,872	40,920	1,488	0	0	0	321	0	0	0	0	0	288	1,754	0	60,843	0	8,000	2.0
Sep-21	19,852	133	19,324	39,600	1,440	0	0	0	629	0	0	0	0	0	112	1,643	0	79,224	0	8,000	2.0
Oct-21	0	0	0	40,920	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	40,654	0	8,000	2.0
Nov-21	0	0	0	39,600	1,440	0	0	0	0	0	0	0	0	0	0	1,643	0	39,397	0	8,000	2.0
Dec-21	0	0	0	40,920	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	40,654	0	8,000	-24.4
Jan-22	0	0	0	42,160	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	41,894	0	8,000	-24.4
Feb-22	0	0	0	38,080	1,344	0	0	0	0	0	0	0	0	0	0	1,431	0	37,993	0	8,000	-24.4
Mar-22	0	0	0	42,160	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	41,894	0	8,000	-24.4
Apr-22	0	0	0	40,800	1,440	0	0	0	0	0	0	0	0	0	0	1,643	0	40,597	0	8,000	-24.4
May-22	0	0	0	42,160	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	41,894	0	8,000	-24.4
Jun-22	60,075	145	60,471	40,800	1,440	0	0	0	1,962	0	20	0	0	0	12	1,643	0	0	163,259	8,000	-24.4
Jul-22	7,004	60	7,091	42,160	1,488	0	0	0	230	0	2	0	0	0	134	1,754	0	0	56,148	8,000	-24.4
Aug-22	9,720	66	9,899	42,160	1,488	0	0	0	321	0	2	0	0	0	135	1,754	0	0	61,767	8,000	-24.4
Sep-22	18,916	62	19,376	40,800	1,440	0	0	0	629	0	1	0	0	0	52	1,643	0	0	79,528	8,000	-24.4
Oct-22	0	0	0	42,160	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	0	41,894	8,000	-24.4

WHALE TAIL PIT																					
	INFLOWS													OUTFLOWS					STORAGE		
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon					m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m	
													Whale Tail Attenuation Pond Overflow	Drawdown from WTN				Whale Tail Attenuation Pond	IVR Attenuation Pond		
Date	Land Runoff	Lake Runoff	Pit Wall Runoff	Groundwater	Drilling Water	GSP-1	North Sector	IVR WRSF (Closure)	Overburden Runoff	Ore 4 Runoff	NPAG Runoff	IVR Pit Overflow	Whale Tail Attenuation Pond Overflow	Drawdown from WTN	Evaporation	Drill Water Loss	Groundwater	Whale Tail Attenuation Pond	IVR Attenuation Pond	Volume	Water Level
Nov-22	0	0	0	40,800	1,440	0	0	0	0	0	0	0	0	0	0	1,643	0	0	40,597	8,000	-24.4
Dec-22	0	0	0	42,160	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	0	41,894	8,000	-24.4
Jan-23	0	0	0	42,160	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	0	41,894	8,000	-24.4
Feb-23	0	0	0	38,080	1,344	0	0	0	0	0	0	0	0	0	0	1,431	0	0	37,993	8,000	-24.4
Mar-23	0	0	0	42,160	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	0	41,894	8,000	-24.4
Apr-23	0	0	0	40,800	1,440	0	0	0	0	0	0	0	0	0	0	1,643	0	0	40,597	8,000	-24.4
May-23	0	0	0	42,160	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	0	41,894	8,000	-24.4
Jun-23	57,832	145	60,471	40,800	1,440	0	0	0	1,962	0	44	0	0	0	12	1,643	0	0	161,040	8,000	-24.4
Jul-23	6,782	60	7,091	42,160	1,488	0	0	0	230	0	3	0	0	0	134	1,754	0	0	55,926	8,000	-24.4
Aug-23	9,467	66	9,899	42,160	1,488	0	0	0	321	0	3	0	0	0	135	1,754	0	0	61,515	8,000	-24.4
Sep-23	18,530	62	19,376	40,800	1,440	0	0	0	629	0	1	0	0	0	52	1,643	0	0	79,143	8,000	-24.4
Oct-23	0	0	0	42,160	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	0	41,894	8,000	-24.4
Nov-23	0	0	0	40,800	1,440	0	0	0	0	0	0	0	0	0	0	1,643	0	0	40,597	8,000	-24.4
Dec-23	0	0	0	42,160	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	0	41,894	8,000	-127.6
Jan-24	0	0	0	41,850	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	0	41,584	8,000	-127.6
Feb-24	0	0	0	39,150	1,392	0	0	0	0	0	0	0	0	0	0	1,535	0	0	39,007	8,000	-127.6
Mar-24	0	0	0	41,850	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	0	41,584	8,000	-127.6
Apr-24	0	0	0	40,500	1,440	0	0	0	0	0	0	0	0	0	0	1,643	0	0	40,297	8,000	-127.6
May-24	0	0	0	41,850	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	0	41,584	8,000	-127.6
Jun-24	57,844	174	60,455	40,500	1,440	0	0	0	1,963	0	44	0	0	0	14	1,643	0	0	160,763	8,000	-127.6
Jul-24	6,782	72	7,088	41,850	1,488	0	0	0	230	0	3	0	0	0	160	1,754	0	0	55,598	8,000	-127.6
Aug-24	9,467	80	9,894	41,850	1,488	0	0	0	321	0	3	0	0	0	162	1,754	0	0	61,187	8,000	-127.6
Sep-24	18,530	75	19,367	40,500	1,440	0	0	0	629	0	1	0	0	0	63	1,643	0	0	78,836	8,000	-127.6
Oct-24	0	0	0	41,850	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	0	41,584	8,000	-127.6
Nov-24	0	0	0	40,500	1,440	0	0	0	0	0	0	0	0	0	0	1,643	0	0	40,297	8,000	-127.6
Dec-24	0	0	0	41,850	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	0	41,584	8,000	-127.6
Jan-25	0	0	0	41,850	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	0	41,584	8,000	-127.6
Feb-25	0	0	0	37,800	1,344	0	0	0	0	0	0	0	0	0	0	1,431	0	0	37,713	8,000	-127.6
Mar-25	0	0	0	41,850	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	0	41,584	8,000	-127.6
Apr-25	0	0	0	40,500	1,440	0	0	0	0	0	0	0	0	0	0	1,643	0	0	40,297	8,000	-127.6
May-25	0	0	0	41,850	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	0	41,584	8,000	-127.6
Jun-25	57,832	174	60,442	40,500	1,440	0	0	0	1,962	0	44	0	0	0	14	1,643	0	0	160,738	8,000	-127.6
Jul-25	6,782	72	7,088	41,850	1,488	0	0	0	230	0	3	0	0	0	160	1,754	0	0	55,598	8,000	-127.6
Aug-25	9,467	80	9,894	41,850	1,488	0	0	0	321	0	3	0	0	0	162	1,018	0	0	61,922	8,000	-127.6
Sep-25	18,530	75	19,367	40,500	1,440	0	0	0	629	0	1	0	0	0	63	0	0	0	80,479	8,000	-127.6
Oct-25	0	0	0	41,850	1,488	0	0	0	0	0	0	0	0	0	0	0	0	0	43,338	8,000	-127.6
Nov-25	0	0	0	40,500	1,440	0	0	0	0	0	0	0	0	0	0	0	0	0	41,940	8,000	-127.6
Dec-25	0	0	0	41,850	1,488	0	0	0	0	0	0	0	0	0	0	0	0	0	43,338	8,000	-127.6
Jan-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8,000	-127.6
Feb-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8,000	-127.6
Mar-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8,000	-127.6
Apr-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8,000	-127.6
May-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8,000	-127.6
Jun-26	57,832	1,106	59,536	0	0	14,929	6,569	14,845	1,962	0	2,888	0	23,157	0	89	0	0	0	0	190,734	-109.3
Jul-26	6,782	726	6,906	0	0	1,751	761	1,921	230	0	339	0	40,361	0	1,622	0	0	0	0	248,888	-105.4
Aug-26	9,467	944	9,592	0	0	2,444	1,056	2,374	321	0	473	0	43,409	0	1,921	0	0	0	0	317,048	-102.2
Sep-26	18,530	1,161	18,576	0	0	4,783	2,043	4,526	629	0	925	0	80,689	0	974	0	0	0	0	447,937	-96.6
Oct-26	0	0	0	0	0	0	0	71	0	0	0	0	18,245	0	0	0	0	0	0	466,252	-96.0
Nov-26	0	0	0	0	0	0	0	0	0	0	0	0	15,517	0	0	0	0	0	0	481,769	-95.5
Dec-26	0	0	0	0	0	0	0	0	0	0	0	0	16,041	0	0	0	0	0	0	497,810	-94.9
Jan-27	0	0	0	0	0	0	0	0	0	0	0	0	16,048	0	0	0	0	0	0	513,858	-94.4
Feb-27	0	0	0	0	0	0	0	0	0	0	0	0	14,501	0	0	0	0	0	0	528,358	-93.9
Mar-27	0	0	0	0	0	0	0	0	0	0	0	0	16,061	0	0	0	0	0	0	544,420	-93.4
Apr-27	0	0	0	0	0	0	0	0	0	0	0	0	15,550	0	0	0	0	0	0	559,969	-92.9
May-27	0	0	0	0	0	0	0	0	0	0	0	0	16,075	0	0	0	0	0	0	576,045	

WHALE TAIL PIT																					
	INFLOWS													OUTFLOWS					STORAGE		
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon					m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m	
			Pit Wall					IVR WRSF	Overburden				Whale Tail				Whale Tail	IVR			
Date	Land Runoff	Lake Runoff	Runoff	Groundwater	Drilling Water	GSP-1	North Sector	(Closure)	Runoff	Ore 4 Runoff	NPAG Runoff	IVR Pit	Attenuation	Drawdown			Attenuation	Attenuation	Volume	Water Level	
												Overflow	Pond	from WTN			Pond	Pond			
Sep-27	18,530	2,568	17,553	0	0	4,783	2,043	4,526	629	0	925	679,815	81,039	0	2,154	0	0	0	2,021,974	-60.6	
Oct-27	0	0	0	0	0	0	0	71	0	0	0	21,305	18,615	0	0	0	0	0	2,061,965	-59.9	
Nov-27	0	0	0	0	0	0	0	0	0	0	0	0	15,870	0	0	0	0	0	2,077,835	-59.7	
Dec-27	0	0	0	0	0	0	0	0	0	0	0	0	16,401	0	0	0	0	0	2,094,236	-59.4	
Jan-28	0	0	0	0	0	0	0	0	0	0	0	0	16,403	0	0	0	0	0	2,110,639	-59.2	
Feb-28	0	0	0	0	0	0	0	0	0	0	0	0	15,346	0	0	0	0	0	2,125,985	-58.9	
Mar-28	0	0	0	0	0	0	0	0	0	0	0	0	16,406	0	0	0	0	0	2,142,391	-58.6	
Apr-28	0	0	0	0	0	0	0	0	0	0	0	0	15,878	0	0	0	0	0	2,158,269	-58.4	
May-28	0	0	0	0	0	0	0	0	0	0	0	0	16,409	0	0	0	0	0	2,174,679	-58.1	
Jun-28	57,844	9,755	51,133	0	0	14,932	6,570	14,848	1,963	0	2,888	2,371,608	225,057	0	789	0	0	0	4,930,487	-27.2	
Jul-28	6,782	5,068	5,702	0	0	1,751	761	1,921	230	0	339	89,492	41,057	0	11,329	0	0	0	5,072,260	-25.9	
Aug-28	9,467	5,674	7,942	0	0	2,444	1,056	2,374	321	0	473	115,428	44,062	0	11,544	0	0	0	5,249,958	-24.4	
Sep-28	18,530	5,524	15,403	0	0	4,783	2,043	4,526	629	0	925	679,740	81,279	0	4,633	0	0	0	6,058,707	-17.5	
Oct-28	0	0	0	0	0	0	0	71	0	0	0	21,303	18,823	0	0	0	0	0	6,098,903	-17.2	
Nov-28	0	0	0	0	0	0	0	0	0	0	0	0	16,070	0	0	0	0	0	6,114,974	-17.0	
Dec-28	0	0	0	0	0	0	0	0	0	0	0	0	16,606	0	0	0	0	0	6,131,579	-16.9	
Jan-29	0	0	0	0	0	0	0	0	0	0	0	0	16,607	0	0	0	0	0	6,148,186	-16.8	
Feb-29	0	0	0	0	0	0	0	0	0	0	0	0	15,000	0	0	0	0	0	6,163,186	-16.7	
Mar-29	0	0	0	0	0	0	0	0	0	0	0	0	16,607	0	0	0	0	0	6,179,793	-16.6	
Apr-29	0	0	0	0	0	0	0	0	0	0	0	0	16,072	0	0	0	0	0	6,195,865	-16.4	
May-29	0	0	0	0	0	0	0	0	0	0	0	0	16,608	0	0	0	0	0	6,212,473	-16.3	
Jun-29	57,832	15,752	45,285	0	0	14,929	6,569	14,845	1,962	0	2,888	2,371,084	225,148	0	1,274	0	0	0	8,967,492	2.2	
Jul-29	6,782	7,492	5,029	0	0	1,751	761	1,921	230	0	339	89,461	41,152	0	16,747	0	0	0	9,105,662	3.1	
Aug-29	9,467	8,425	6,982	15	0	2,444	1,056	2,374	321	0	473	115,413	44,159	0	17,142	0	0	0	9,279,649	4.1	
Sep-29	18,530	8,310	13,376	89	0	4,783	2,043	4,526	629	0	925	679,727	81,374	0	6,970	0	0	0	10,086,990	8.8	
Oct-29	0	0	0	161	0	0	0	71	0	0	0	21,302	18,924	0	0	0	0	0	10,127,450	9.0	
Nov-29	0	0	0	159	0	0	0	0	0	0	0	0	16,167	0	0	0	0	0	10,143,780	9.1	
Dec-29	0	0	0	166	0	0	0	0	0	0	0	0	16,707	0	0	0	0	0	10,160,650	9.2	
Jan-30	0	0	0	169	0	0	0	0	0	0	0	0	16,707	0	0	0	0	0	10,177,530	9.3	
Feb-30	0	0	0	155	0	0	0	0	0	0	0	0	15,091	0	0	0	0	0	10,192,770	9.4	
Mar-30	0	0	0	174	0	0	0	0	0	0	0	0	16,708	0	0	0	0	0	10,209,650	9.5	
Apr-30	0	0	0	170	0	0	0	0	0	0	0	0	16,170	0	0	0	0	0	10,225,990	9.6	
May-30	0	0	0	179	0	0	0	0	0	0	0	0	16,709	0	0	0	0	0	10,242,880	9.7	
Jun-30	57,832	20,767	40,405	349	0	14,929	6,569	14,845	1,962	0	2,888	2,371,074	225,254	0	1,680	0	0	0	12,998,080	24.1	
Jul-30	6,782	9,113	4,579	582	0	1,751	761	1,921	230	0	339	89,451	41,273	0	20,372	0	0	0	13,134,490	24.7	
Aug-30	9,467	10,204	6,361	596	0	2,444	1,056	2,374	321	0	473	115,403	44,280	0	20,760	0	0	0	13,306,710	25.5	
Sep-30	18,530	9,943	12,189	767	0	4,783	2,043	4,526	629	0	925	679,717	81,445	0	8,339	0	0	0	14,113,860	29.3	
Oct-30	0	0	0	1,059	0	0	0	71	0	0	0	21,302	18,919	0	0	0	0	0	14,155,210	29.5	
Nov-30	0	0	0	1,035	0	0	0	0	0	0	0	0	16,160	0	0	0	0	0	14,172,410	29.6	
Dec-30	0	0	0	1,080	0	0	0	0	0	0	0	0	16,696	0	0	0	0	0	14,190,190	29.6	
Jan-31	0	0	0	1,091	0	0	0	0	0	0	0	0	16,694	0	0	0	0	0	14,207,970	29.7	
Feb-31	0	0	0	994	0	0	0	0	0	0	0	0	15,076	0	0	0	0	0	14,224,040	29.8	
Mar-31	0	0	0	1,111	0	0	0	0	0	0	0	0	16,689	0	0	0	0	0	14,241,840	29.9	
Apr-31	0	0	0	1,085	0	0	0	0	0	0	0	0	16,149	0	0	0	0	0	14,259,070	30.0	
May-31	0	0	0	1,132	0	0	0	0	0	0	0	0	16,685	0	0	0	0	0	14,276,890	30.1	
Jun-31	57,832	25,200	36,091	1,783	0	14,929	6,569	14,845	1,962	0	2,888	2,371,064	225,049	0	2,038	0	0	0	17,033,070	42.0	
Jul-31	6,782	11,058	4,040	2,721	0	1,751	761	1,921	230	0	339	89,440	40,802	0	24,720	0	0	0	17,168,190	42.6	
Aug-31	9,467	12,354	5,611	2,776	0	2,444	1,056	2,374	321	0	473	115,392	43,793	0	25,135	0	0	0	17,339,120	43.3	
Sep-31	18,530	11,932	10,742	2,826	0	4,783	2,043	4,526	629	0	925	679,706	80,957	0	10,008	0	0	0	18,146,710	46.7	
Oct-31	0	0	0	3,052	0	0	0	71	0	0	0	21,302	18,427	0	0	0	0	0	18,189,560	46.8	
Nov-31	0	0	0	2,959	0	0	0	0	0	0	0	0	15,684	0	0	0	0	0	18,208,200	46.9	
Dec-31	0	0	0	3,063	0	0	0	0	0	0	0	0	16,204	0	0	0	0	0	18,227,470	47.0	
Jan-32	0	0	0	3,068	0	0	0	0	0	0	0	0	16,202	0	0	0	0	0	18,246,740	47.1	
Feb-32	0	0	0	2,875	0	0	0	0	0	0	0	0	15,155	0	0	0	0	0	18,264,770	47.1	
Mar-32																					

WHALE TAIL PIT

	INFLOWS													OUTFLOWS					STORAGE		
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon					m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m	
Date	Land Runoff	Lake Runoff	Pit Wall Runoff	Groundwater	Drilling Water	GSP-1	North Sector	IVR WRSF (Closure)	Overburden Runoff	Ore 4 Runoff	NPAG Runoff	IVR Pit Overflow	Whale Tail Attenuation Pond Overflow	Drawdown from WTN	Evaporation	Drill Water Loss	Groundwater	Whale Tail Attenuation Pond	IVR Attenuation Pond	Volume	Water Level
May-37	0	0	0	35,665	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38,813,980	110.6
Jun-37	57,832	45,556	16,284	33,493	0	14,929	6,569	14,845	1,962	0	2,888	2,370,811	154,059	0	3,685	0	0	0	0	41,529,530	117.1
Jul-37	6,782	18,983	1,841	32,312	0	1,751	761	1,921	230	0	339	89,166	19,694	0	42,436	0	0	0	0	41,660,870	117.4
Aug-37	9,467	21,086	2,564	32,156	0	2,444	1,056	2,374	321	0	473	115,119	22,825	0	42,901	0	0	0	0	41,827,860	117.8
Sep-37	18,530	19,873	4,965	30,442	0	4,783	2,043	4,526	629	0	925	679,444	61,249	0	16,668	0	0	0	0	42,638,600	119.8
Oct-37	0	0	0	30,778	0	0	0	71	0	0	0	21,293	2,102	0	0	0	0	0	0	42,692,840	119.9
Nov-37	0	0	0	29,742	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42,722,580	120.0
Dec-37	0	0	0	30,689	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42,753,270	120.0
Jan-38	0	0	0	30,645	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42,783,920	120.1
Feb-38	0	0	0	27,641	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42,811,560	120.2
Mar-38	0	0	0	30,561	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42,842,120	120.2
Apr-38	0	0	0	29,533	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42,871,650	120.3
May-38	0	0	0	30,474	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42,902,130	120.4
Jun-38	57,832	47,004	14,876	27,084	0	14,929	6,569	14,845	1,962	0	2,888	2,370,822	186,513	0	3,802	0	0	0	0	45,643,650	126.8
Jul-38	6,782	19,553	1,683	22,478	0	1,751	761	1,921	230	0	339	89,208	28,141	0	43,710	0	0	0	0	45,772,780	127.1
Aug-38	9,467	21,755	2,330	22,051	0	2,444	1,056	2,374	321	0	473	115,163	31,524	0	44,262	0	0	0	0	45,937,480	127.4
Sep-38	18,530	20,667	4,388	19,450	0	4,783	2,043	4,526	629	0	925	679,497	70,756	0	17,334	0	0	0	0	46,746,340	129.2
Oct-38	0	0	0	18,184	0	0	0	71	0	0	0	21,295	9,707	0	0	0	0	0	0	46,795,600	129.3
Nov-38	0	0	0	17,493	0	0	0	0	0	0	0	0	7,346	0	0	0	0	0	0	46,820,440	129.4
Dec-38	0	0	0	17,971	0	0	0	0	0	0	0	0	7,685	0	0	0	0	0	0	46,846,090	129.4
Jan-39	0	0	0	17,865	0	0	0	0	0	0	0	0	7,779	0	0	0	0	0	0	46,871,740	129.5
Feb-39	0	0	0	16,044	0	0	0	0	0	0	0	0	7,108	0	0	0	0	0	0	46,894,890	129.5
Mar-39	0	0	0	17,662	0	0	0	0	0	0	0	0	7,959	0	0	0	0	0	0	46,920,510	129.6
Apr-39	0	0	0	16,991	0	0	0	0	0	0	0	0	7,793	0	0	0	0	0	0	46,945,300	129.7
May-39	0	0	0	17,453	0	0	0	0	0	0	0	0	8,145	0	0	0	0	0	0	46,970,890	129.7
Jun-39	57,832	50,470	11,503	12,077	0	14,929	6,569	14,845	1,962	0	2,888	2,370,956	220,423	0	4,082	0	0	0	0	49,731,260	135.7
Jul-39	6,782	21,413	1,167	7,236	0	1,751	761	1,921	230	0	339	89,619	38,305	0	47,868	0	0	0	0	49,852,920	136.0
Aug-39	9,467	23,786	1,622	6,969	0	2,444	1,056	2,374	321	0	473	115,595	41,313	0	48,393	0	0	0	0	50,009,940	136.3
Sep-39	18,530	22,429	3,106	5,490	0	4,783	2,043	4,526	629	0	925	680,009	78,629	0	18,812	0	0	0	0	50,812,230	138.0
Oct-39	0	0	0	4,404	0	0	0	71	0	0	0	21,315	16,098	0	0	0	0	0	0	50,854,120	138.1
Nov-39	0	0	0	4,211	0	0	0	0	0	0	0	0	13,434	0	0	0	0	0	0	50,871,760	138.1
Dec-39	0	0	0	4,301	0	0	0	0	0	0	0	0	13,882	0	0	0	0	0	0	50,889,950	138.1
Jan-40	0	0	0	4,251	0	0	0	0	0	0	0	0	13,883	0	0	0	0	0	0	50,908,080	138.2
Feb-40	0	0	0	3,931	0	0	0	0	0	0	0	0	12,989	0	0	0	0	0	0	50,925,000	138.2
Mar-40	0	0	0	4,153	0	0	0	0	0	0	0	0	13,885	0	0	0	0	0	0	50,943,040	138.2
Apr-40	0	0	0	3,971	0	0	0	0	0	0	0	0	13,438	0	0	0	0	0	0	50,960,450	138.3
May-40	0	0	0	4,054	0	0	0	0	0	0	0	0	13,887	0	0	0	0	0	0	50,978,390	138.3
Jun-40	57,844	53,235	8,824	1,243	0	14,932	6,570	14,848	1,963	0	2,888	2,372,796	222,102	0	4,305	0	297	0	0	53,731,030	144.0
Jul-40	6,782	22,324	914	0	0	1,751	761	1,921	230	0	339	95,612	34,032	0	49,904	0	617	0	0	53,845,180	144.2
Aug-40	9,467	24,817	1,262	0	0	2,444	1,056	2,374	321	0	473	121,968	36,681	0	50,491	0	592	0	0	53,994,960	144.5
Sep-40	18,530	23,500	2,327	0	0	4,783	2,043	4,526	629	0	925	688,119	72,398	0	19,710	0	447	0	0	54,792,580	146.1
Oct-40	0	0	0	0	0	0	0	71	0	0	0	21,646	7,756	0	0	0	335	0	0	54,821,720	146.1
Nov-40	0	0	0	0	0	0	0	0	0	0	0	0	5,330	0	0	0	323	0	0	54,826,720	146.1
Dec-40	0	0	0	0	0	0	0	0	0	0	0	0	5,487	0	0	0	332	0	0	54,831,880	146.2
Jan-41	0	0	0	0	0	0	0	0	0	0	0	0	5,466	0	0	0	331	0	0	54,837,010	146.2
Feb-41	0	0	0	0	0	0	0	0	0	0	0	0	4,919	0	0	0	298	0	0	54,841,640	146.2
Mar-41	0	0	0	0	0	0	0	0	0	0	0	0	5,427	0	0	0	328	0	0	54,846,730	146.2
Apr-41	0	0	0	0	0	0	0	0	0	0	0	0	5,232	0	0	0	316	0	0	54,851,650	146.2
May-41	0	0	0	0	0	0	0	0	0	0	0	0	5,386	0	0	0	325	0	0	54,856,710	146.2
Jun-41	57,832	56,347	5,785	0	0	14,929	6,569	14,916	1,962	0	2,888	38,846	9,868	193	206	0	207	0	0	54,907,870	146.3
Jul-41	6,782	23,552	574	0	0	1,751	761	1,732	230	0	339	0	0	124	0	0	124	0	0	54,907,870	146.3
Aug-41	9,467	26,156	795	0	0	2,444	1,056	2,384	321	0	473	0	0	120	0						

WHALE TAIL PIT

	INFLOWS													OUTFLOWS					STORAGE		
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon					m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m		
													Whale Tail Attenuation Pond Overflow	Drawdown from WTN				Whale Tail Attenuation Pond	IVR Attenuation Pond		
Date	Land Runoff	Lake Runoff	Pit Wall Runoff	Groundwater	Drilling Water	GSP-1	North Sector	IVR WRSF (Closure)	Overburden Runoff	Ore 4 Runoff	NPAG Runoff	IVR Pit Overflow	Whale Tail Attenuation Pond Overflow	Drawdown from WTN	Evaporation	Drill Water Loss	Groundwater	Whale Tail Attenuation Pond	IVR Attenuation Pond	Volume	Water Level
Mar-42	0	0	0	0	0	0	0	0	0	0	0	0	0	80	0	0	80	0	0	54,907,870	146.3
Apr-42	0	0	0	0	0	0	0	0	0	0	0	0	0	77	0	0	77	0	0	54,907,870	146.3
May-42	0	0	0	0	0	0	0	0	0	0	0	0	0	80	0	0	80	0	0	54,907,870	146.3
Jun-42	57,832	58,492	3,697	0	0	14,929	6,569	15,043	1,962	0	2,888	0	0	26	0	0	26	0	0	54,907,870	146.3
Jul-42	6,782	24,394	340	0	0	1,751	761	1,785	230	0	339	0	0	0	0	0	0	0	0	54,907,870	146.3
Aug-42	9,467	27,090	469	0	0	2,444	1,056	2,384	321	0	473	0	0	0	0	0	0	0	0	54,907,870	146.3
Sep-42	18,530	25,475	890	0	0	4,783	2,043	4,558	629	0	925	0	0	22	0	0	22	0	0	54,907,870	146.3
Oct-42	0	0	0	0	0	0	0	71	0	0	0	0	0	43	0	0	43	0	0	54,907,870	146.3
Nov-42	0	0	0	0	0	0	0	0	0	0	0	0	0	55	0	0	55	0	0	54,907,870	146.3
Dec-42	0	0	0	0	0	0	0	0	0	0	0	0	0	68	0	0	68	0	0	54,907,870	146.3
Jan-43	0	0	0	0	0	0	0	0	0	0	0	0	0	76.49649	0	0	76.49649	0	0	5.49E+07	146.3
Feb-43	0	0	0	0	0	0	0	0	0	0	0	0	0	75.29357	0	0	75.29357	0	0	5.49E+07	146.3
Mar-43	0	0	0	0	0	0	0	0	0	0	0	0	0	88.54272	0	0	88.54272	0	0	5.49E+07	146.3
Apr-43	0	0	0	0	0	0	0	0	0	0	0	0	0	90.40202	0	0	90.40202	0	0	5.49E+07	146.3
May-43	0	0	0	0	0	0	0	0	0	0	0	0	0	96.97668	0	0	96.97668	0	0	5.49E+07	146.3
Jun-43	57832.1	59440.8	2773.77	0	0	14928.89	6568.646	15064.37	1962.418	0	2887.817	0	0	97.20657	0	0	97.20657	0	0	5.49E+07	146.3
Jul-43	6781.724	24447.18	325.2681	0	0	1750.647	760.8514	1921.436	230.1244	0	338.642	0	0	103.3729	0	0	103.3729	0	0	5.49E+07	146.3
Aug-43	9466.761	27132.5	454.049	0	0	2443.767	1056.134	2374.293	321.2358	0	472.7179	0	0	105.6294	0	0	105.6294	0	0	5.49E+07	146.3
Sep-43	18530.28	25477.03	888.7578	0	0	4783.442	2042.688	4525.798	628.7885	0	925.3004	0	0	104.3658	0	0	104.3658	0	0	5.49E+07	146.3
Oct-43	0	0	0	0	0	0	0	70.54922	0	0	0	0	0	110.0322	0	0	110.0322	0	0	5.49E+07	146.3
Nov-43	0	0	0	0	0	0	0	0	0	0	0	0	0	108.0538	0	0	108.0538	0	0	5.49E+07	146.3
Dec-43	0	0	0	0	0	0	0	0	0	0	0	0	0	113.0339	0	0	113.0339	0	0	5.49E+07	146.3
Jan-44	0	0	0	0	0	0	0	0	0	0	0	0	0	114.4348	0	0	114.4348	0	0	5.49E+07	146.3
Feb-44	0	0	0	0	0	0	0	0	0	0	0	0	0	108.3201	0	0	108.3201	0	0	5.49E+07	146.3
Mar-44	0	0	0	0	0	0	0	0	0	0	0	0	0	117.1204	0	0	117.1204	0	0	5.49E+07	146.3
Apr-44	0	0	0	0	0	0	0	0	0	0	0	0	0	114.276	0	0	114.276	0	0	5.49E+07	146.3
May-44	0	0	0	0	0	0	0	0	0	0	0	0	0	118.9151	0	0	118.9151	0	0	5.49E+07	146.3
Jun-44	57844.06	59452.77	2774.344	0	0	14931.98	6569.962	15067.29	1962.824	0	2888.414	0	0	115.8822	0	0	115.8822	0	0	5.49E+07	146.3
Jul-44	6781.724	24447.18	325.2681	0	0	1750.647	760.8514	1921.481	230.1244	0	338.642	0	0	120.5748	0	0	120.5748	0	0	5.49E+07	146.3
Aug-44	9466.761	27132.5	454.049	0	0	2443.767	1056.134	2374.293	321.2358	0	472.7179	0	0	121.419	0	0	121.419	0	0	5.49E+07	146.3
Sep-44	18530.28	25477.03	888.7578	0	0	4783.442	2042.688	4525.798	628.7885	0	925.3004	0	0	118.3056	0	0	118.3056	0	0	5.49E+07	146.3
Oct-44	0	0	0	0	0	0	0	70.54922	0	0	0	0	0	122.891	0	0	122.891	0	0	5.49E+07	146.3
Nov-44	0	0	0	0	0	0	0	0	0	0	0	0	0	119.3101	0	0	119.3101	0	0	5.49E+07	146.3
Dec-44	0	0	0	0	0	0	0	0	0	0	0	0	0	123.6818	0	0	123.6818	0	0	5.49E+07	146.3
Jan-45	0	0	0	0	0	0	0	0	0	0	0	0	0	124.083	0	0	124.083	0	0	5.49E+07	146.3
Feb-45	0	0	0	0	0	0	0	0	0	0	0	0	0	112.4198	0	0	112.4198	0	0	5.49E+07	146.3
Mar-45	0	0	0	0	0	0	0	0	0	0	0	0	0	124.8465	0	0	124.8465	0	0	5.49E+07	146.3
Apr-45	0	0	0	0	0	0	0	0	0	0	0	0	0	121.2012	0	0	121.2012	0	0	5.49E+07	146.3
May-45	0	0	0	0	0	0	0	0	0	0	0	0	0	125.636	0	0	125.636	0	0	5.49E+07	146.3
Jun-45	57832.1	59440.8	2773.77	0	0	14928.89	6568.646	15064.37	1962.418	0	2887.817	0	0	121.8904	0	0	121.8904	0	0	5.49E+07	146.3
Jul-45	6781.724	24447.18	325.2681	0	0	1750.647	760.8514	1921.436	230.1244	0	338.642	0	0	125.9801	0	0	125.9801	0	0	5.49E+07	146.3
Aug-45	9466.761	27132.5	454.049	0	0	2443.767	1056.134	2374.293	321.2358	0	472.7179	0	0	125.9805	0	0	125.9805	0	0	5.49E+07	146.3
Sep-45	18530.28	25477.03	888.7578	0	0	4783.442	2042.688	4525.798	628.7885	0	925.3004	0	0	121.917	0	0	121.917	0	0	5.49E+07	146.3
Oct-45	0	0	0	0	0	0	0	70.54922	0	0	0	0	0	125.9813	0	0	125.9813	0	0	5.49E+07	146.3
Nov-45	0	0	0	0	0	0	0	0	0	0	0	0	0	121.9177	0	0	121.9177	0	0	5.49E+07	146.3
Dec-45	0	0	0	0	0	0	0	0	0	0	0	0	0	125.9821	0	0	125.9821	0	0	5.49E+07	146.3
Jan-46	0	0	0	0	0	0	0	0	0	0	0	0	0	125.9824	0	0	125.9824	0	0	5.49E+07	146.3
Feb-46	0	0	0	0	0	0	0	0	0	0	0	0	0	113.7909	0	0	113.7909	0	0		

WHALE TAIL PIT

	INFLOWS													OUTFLOWS					STORAGE		
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon					m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m	
													Whale Tail Attenuation Pond Overflow	Drawdown from WTN				Whale Tail Attenuation Pond	IVR Attenuation Pond		
Date	Land Runoff	Lake Runoff	Pit Wall Runoff	Groundwater	Drilling Water	GSP-1	North Sector	IVR WRSF (Closure)	Overburden Runoff	Ore 4 Runoff	NPAG Runoff	IVR Pit Overflow	Whale Tail Attenuation Pond Overflow	Drawdown from WTN	Evaporation	Drill Water Loss	Groundwater	Whale Tail Attenuation Pond	IVR Attenuation Pond	Volume	Water Level
Jan-47	0	0	0	0	0	0	0	0	0	0	0	0	0	123.4797	0	0	123.4797	0	0	5.49E+07	146.3
Feb-47	0	0	0	0	0	0	0	0	0	0	0	0	0	111.2698	0	0	111.2698	0	0	5.49E+07	146.3
Mar-47	0	0	0	0	0	0	0	0	0	0	0	0	0	122.9033	0	0	122.9033	0	0	5.49E+07	146.3
Apr-47	0	0	0	0	0	0	0	0	0	0	0	0	0	118.6504	0	0	118.6504	0	0	5.49E+07	146.3
May-47	0	0	0	0	0	0	0	0	0	0	0	0	0	122.2419	0	0	122.2419	0	0	5.49E+07	146.3
Jun-47	57832.1	59440.8	2773.77	0	0	14928.89	6568.646	15064.37	1962.418	0	2887.817	0	0	117.8452	0	0	117.8452	0	0	5.49E+07	146.3
Jul-47	6781.724	24447.18	325.2681	0	0	1750.647	760.8514	1921.436	230.1244	0	338.642	0	0	121.3034	0	0	121.3034	0	0	5.49E+07	146.3
Aug-47	9466.761	27132.5	454.049	0	0	2443.767	1056.134	2374.293	321.2358	0	472.7179	0	0	120.8253	0	0	120.8253	0	0	5.49E+07	146.3
Sep-47	18530.28	25477.03	888.7578	0	0	4783.442	2042.688	4525.798	628.7885	0	925.3004	0	0	116.4727	0	0	116.4727	0	0	5.49E+07	146.3
Oct-47	0	0	0	0	0	0	0	70.54922	0	0	0	0	0	119.8856	0	0	119.8856	0	0	5.49E+07	146.3
Nov-47	0	0	0	0	0	0	0	0	0	0	0	0	0	115.5635	0	0	115.5635	0	0	5.49E+07	146.3
Dec-47	0	0	0	0	0	0	0	0	0	0	0	0	0	118.9456	0	0	118.9456	0	0	5.49E+07	146.3
Jan-48	0	0	0	0	0	0	0	0	0	0	0	0	0	118.4679	0	0	118.4679	0	0	5.49E+07	146.3
Feb-48	0	0	0	0	0	0	0	0	0	0	0	0	0	110.3923	0	0	110.3923	0	0	5.49E+07	146.3
Mar-48	0	0	0	0	0	0	0	0	0	0	0	0	0	117.5432	0	0	117.5432	0	0	5.49E+07	146.3
Apr-48	0	0	0	0	0	0	0	0	0	0	0	0	0	113.2967	0	0	113.2967	0	0	5.49E+07	146.3
May-48	0	0	0	0	0	0	0	0	0	0	0	0	0	116.5881	0	0	116.5881	0	0	5.49E+07	146.3
Jun-48	57844.06	59452.77	2774.344	0	0	14931.98	6569.962	15067.29	1962.824	0	2888.414	0	0	112.3367	0	0	112.3367	0	0	5.49E+07	146.3
Jul-48	6781.724	24447.18	325.2681	0	0	1750.647	760.8514	1921.481	230.1244	0	338.642	0	0	115.5744	0	0	115.5744	0	0	5.49E+07	146.3
Aug-48	9466.761	27132.5	454.049	0	0	2443.767	1056.134	2374.293	321.2358	0	472.7179	0	0	115.0587	0	0	115.0587	0	0	5.49E+07	146.3
Sep-48	18530.28	25477.03	888.7578	0	0	4783.442	2042.688	4525.798	628.7885	0	925.3004	0	0	110.8564	0	0	110.8564	0	0	5.49E+07	146.3
Oct-48	0	0	0	0	0	0	0	70.54922	0	0	0	0	0	114.0452	0	0	114.0452	0	0	5.49E+07	146.3
Nov-48	0	0	0	0	0	0	0	0	0	0	0	0	0	109.8758	0	0	109.8758	0	0	5.49E+07	146.3
Dec-48	0	0	0	0	0	0	0	0	0	0	0	0	0	113.0313	0	0	113.0313	0	0	5.49E+07	146.3
Jan-49	0	0	0	0	0	0	0	0	0	0	0	0	0	112.5161	0	0	112.5161	0	0	5.49E+07	146.3
Feb-49	0	0	0	0	0	0	0	0	0	0	0	0	0	101.1846	0	0	101.1846	0	0	5.49E+07	146.3
Mar-49	0	0	0	0	0	0	0	0	0	0	0	0	0	111.5355	0	0	111.5355	0	0	5.49E+07	146.3
Apr-49	0	0	0	0	0	0	0	0	0	0	0	0	0	107.4469	0	0	107.4469	0	0	5.49E+07	146.3
May-49	0	0	0	0	0	0	0	0	0	0	0	0	0	110.5284	0	0	110.5284	0	0	5.49E+07	146.3
Jun-49	57832.1	59440.8	2773.77	0	0	14928.89	6568.646	15064.37	1962.418	0	2887.817	0	0	106.4885	0	0	106.4885	0	0	5.49E+07	146.3
Jul-49	6781.724	24447.18	325.2681	0	0	1750.647	760.8514	1921.436	230.1244	0	338.642	0	0	109.5479	0	0	109.5479	0	0	5.49E+07	146.3
Aug-49	9466.761	27132.5	454.049	0	0	2443.767	1056.134	2374.293	321.2358	0	472.7179	0	0	109.0493	0	0	109.0493	0	0	5.49E+07	146.3
Sep-49	18530.28	25477.03	888.7578	0	0	4783.442	2042.688	4525.798	628.7885	0	925.3004	0	0	105.057	0	0	105.057	0	0	5.49E+07	146.3
Oct-49	0	0	0	0	0	0	0	70.54922	0	0	0	0	0	108.0693	0	0	108.0693	0	0	5.49E+07	146.3
Nov-49	0	0	0	0	0	0	0	0	0	0	0	0	0	104.1088	0	0	104.1088	0	0	5.49E+07	146.3
Dec-49	0	0	0	0	0	0	0	0	0	0	0	0	0	107.0889	0	0	107.0889	0	0	5.49E+07	146.3
Jan-50	0	0	0	0	0	0	0	0	0	0	0	0	0	106.5907	0	0	106.5907	0	0	5.49E+07	146.3
Feb-50	0	0	0	0	0	0	0	0	0	0	0	0	0	95.8472	0	0	95.8472	0	0	5.49E+07	146.3
Mar-50	0	0	0	0	0	0	0	0	0	0	0	0	0	105.6424	0	0	105.6424	0	0	5.49E+07	146.3
Apr-50	0	0	0	0	0	0	0	0	0	0	0	0	0	101.7602	0	0	101.7602	0	0	5.49E+07	146.3
May-50	0	0	0	0	0	0	0	0	0	0	0	0	0	104.6761	0	0	104.6761	0	0	5.49E+07	146.3
Jun-50	57832.1	59440.8	2773.77	0	0	14928.89	6568.646	15064.37	1962.418	0	2887.817	0	0	100.8582	0	0	100.8582	0	0	5.49E+07	146.3
Jul-50	6781.724	24447.18	325.2681	0	0	1750.647	760.8514	1921.436	230.1244	0	338.642	0	0	103.7643	0	0	103.7643	0	0	5.49E+07	146.3
Aug-50	9466.761	27132.5	454.049	0	0	2443.767	1056.134	2374.293	321.2358	0	472.7179	0	0	103.3007	0	0	103.3007	0	0	5.49E+07	146.3
Sep-50	18530.28	25477.03	888.7578	0	0	4783.442	2042.688	4525.798	628.7885	0	925.3004	0	0	99.52715	0	0	99.52715	0	0	5.49E+07	146.3
Oct-50	0	0	0	0	0	0	0	70.54922	0	0	0	0	0	102.3895	0	0	102.3895	0	0	5.49E+07	146.3
Nov-50	0	0	0	0	0	0	0	0	0	0	0	0	0	98.64547	0	0	98.64547	0	0	5.49E+07	146.3
Dec-50	0	0	0	0	0	0	0	0	0	0	0	0	0	98.2116	0	0	98.2116	0	0	5.49E+07	146.3

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WHALE TAIL LAKE (NORTH BASIN) & WHALE TAIL ATTENUATION POND																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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WHALE TAIL LAKE (NORTH BASIN) & WHALE TAIL ATTENUATION POND																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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IVR PIT

Date	INFLOWS												OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
	Drilling Water	Groundwater	Pitwall Runoff	Direct Rainfall Runoff	Direct Snow Runoff	Rainfall Runoff	Snow Runoff	Whale Tail WRSF Runoff	IVR Diversion	Whale Tail Lake (South Basin) Drawdown	Whale Tail Lake (South Basin) Overflow	WT WRSF	Whale Tail Attenuation Pond	IVR Attenuation Pond	Evaporation	Drill Water Loss	Overflow to WT Pit	Overflow to WT North	Volume	Water Level
Jan-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Feb-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Mar-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Apr-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
May-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Jun-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Jul-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Aug-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Sep-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Oct-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Nov-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Dec-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Jan-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Feb-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Mar-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Apr-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
May-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Jun-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Jul-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Aug-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Sep-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Oct-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Nov-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Dec-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Jan-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Feb-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Mar-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Apr-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
May-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Jun-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	130.2
Jul-20	2,976	0	973	24	0	13,741	0	0	0	0	0	0	16,222	0	53	1,439	0	0	1,000	130.2
Aug-20	2,976	0	1,359	26	0	19,182	0	0	0	0	0	0	22,050	0	54	1,439	0	0	1,000	130.2
Sep-20	2,880	0	2,659	25	0	37,546	0	0	0	0	0	0	41,742	0	21	1,348	0	0	1,000	130.2
Oct-20	2,976	0	0	0	0	0	0	0	0	0	0	0	1,537	0	0	1,439	0	0	1,000	130.2
Nov-20	2,880	0	0	0	0	0	0	0	0	0	0	0	1,532	0	0	1,348	0	0	1,000	130.2
Dec-20	2,976	0	0	0	0	0	0	0	0	0	0	0	1,537	0	0	1,439	0	0	1,000	122.1
Jan-21	2,976	0	0	0	0	0	0	0	0	0	0	0	1,222	0	0	1,754	0	0	1,000	122.1
Feb-21	2,688	0	0	0	0	0	0	0	0	0	0	0	1,257	0	0	1,431	0	0	1,000	122.1
Mar-21	2,976	0	0	0	0	0	0	0	0	0	0	0	1,222	0	0	1,754	0	0	1,000	122.1
Apr-21	2,880	0	0	0	0	0	0	0	0	0	0	0	1,237	0	0	1,643	0	0	1,000	122.1
May-21	2,976	0	0	0	0	0	0	0	0	0	0	0	1,222	0	0	1,754	0	0	1,000	122.1
Jun-21	2,880	0	18,641	38	73	32,516	67,031	77	0	0	0	0	119,605	0	9	1,643	0	0	1,000	122.1
Jul-21	2,976	0	2,186	46	0	11,518	0	7	0	0	0	0	14,876	0	102	1,754	0	0	1,000	122.1
Aug-21	2,976	0	3,051	51	0	15,857	0	8	0	0	0	0	20,086	0	103	1,754	0	0	1,000	122.1
Sep-21	2,880	0	5,973	47	0	30,614	0	3	0	0	0	0	37,835	0	40	1,643	0	0	1,000	122.1
Oct-21	2,976	0	0	0	0	0	0	0	0	0	0	0	1,222	0	0	1,754	0	0	1,000	122.1
Nov-21	2,880	0	0	0	0	0	0	0	0	0	0	0	1,237	0	0	1,643	0	0	1,000	122.1
Dec-21	2,976	0	0	0	0	0	0	0	0	0	0	0	1,222	0	0	1,754	0	0	1,000	74.3
Jan-22	2,976	0	0	0	0	0	0	0	0	0	0	0	1,222	0	0	1,754	0	0	1,000	74.3
Feb-22	2,688	0	0	0	0	0	0	0	0	0	0	0	1,257	0	0	1,431	0	0	1,000	74.3
Mar-22	2,976	0	0	0	0	0	0	0	0	0	0	0	1,222	0	0	1,754	0	0	1,000	74.3
Apr-22	2,880	0	0	0	0	0	0	0	0	0	0	0	1,237	0	0	1,643	0	0	1,000	74.3
May-22	2,976	0	0	0	0	0	0	0	0	0	0	0	1,222	0	0	1,754	0	0	1,000	74.3
Jun-22	2,880	0	37,932	20	38	23,413	48,265	170	0	0	0	0	0	111,071	5	1,643	0	0	1,000	74.3
Jul-22	2,976	0	4,448	24	0	8,405	0	12	0	0	0	0	0	14,058	54	1,754	0	0	1,000	74.3
Aug-22	2,976	0	6,209	27	0	11,733	0	12	0	0	0	0	0	19,149	54	1,754	0	0	1,000	74.3

IVR PIT

Date	INFLOWS												OUTFLOWS							STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m	
	Drilling Water	Groundwater	Pitwall Runoff	Direct Rainfall Runoff	Direct Snow Runoff	Rainfall Runoff	Snow Runoff	Whale Tail WRSF Runoff	IVR Diversion	Whale Tail Lake (South Basin) Drawdown	Whale Tail Lake (South Basin) Overflow	WT WRSF	Whale Tail Attenuation Pond	IVR Attenuation Pond	Evaporation	Drill Water Loss	Overflow to WT Pit	Overflow to WT North	Volume	Water Level	
Jan-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
Feb-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
Mar-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
Apr-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
May-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
Jun-32	0	0	6,213	11,260	21,405	23,413	48,280	170	73,006	0	2,165,126	25,321	0	0	2,642	0	2,371,551	0	10,107,510	149.3	
Jul-32	0	0	728	13,432	0	8,405	0	12	8,559	0	85,407	2,923	0	0	30,026	0	89,442	0	10,107,510	149.3	
Aug-32	0	0	1,017	14,907	0	11,733	0	12	11,948	0	102,037	4,053	0	0	30,330	0	115,378	0	10,107,510	149.3	
Sep-32	0	0	1,990	13,998	0	22,967	0	4	23,387	0	621,269	7,818	0	0	11,740	0	679,692	0	10,107,510	149.3	
Oct-32	0	0	0	0	0	0	0	0	0	0	21,301	0	0	0	0	0	21,301	0	10,107,510	149.3	
Nov-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
Dec-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
Jan-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
Feb-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
Mar-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
Apr-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
May-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
Jun-33	0	0	6,211	11,260	21,398	23,413	48,265	170	72,990	0	2,164,657	25,316	0	0	2,642	0	2,371,039	0	10,107,510	149.3	
Jul-33	0	0	728	13,432	0	8,405	0	12	8,559	0	85,376	2,923	0	0	30,026	0	89,410	0	10,107,510	149.3	
Aug-33	0	0	1,017	14,907	0	11,733	0	12	11,948	0	102,022	4,053	0	0	30,330	0	115,363	0	10,107,510	149.3	
Sep-33	0	0	1,990	13,998	0	22,967	0	4	23,387	0	621,254	7,818	0	0	11,740	0	679,677	0	10,107,510	149.3	
Oct-33	0	0	0	0	0	0	0	0	0	0	21,301	0	0	0	0	0	21,301	0	10,107,510	149.3	
Nov-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
Dec-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
Jan-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
Feb-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
Mar-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
Apr-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
May-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
Jun-34	0	0	6,211	11,260	21,398	23,413	48,265	170	72,990	0	2,164,643	25,316	0	0	2,642	0	2,371,025	0	10,107,510	149.3	
Jul-34	0	0	728	13,432	0	8,405	0	12	8,559	0	85,360	2,923	0	0	30,026	0	89,394	0	10,107,510	149.3	
Aug-34	0	0	1,017	14,907	0	11,733	0	12	11,948	0	102,006	4,053	0	0	30,330	0	115,347	0	10,107,510	149.3	
Sep-34	0	0	1,990	13,998	0	22,967	0	4	23,387	0	621,238	7,818	0	0	11,740	0	679,662	0	10,107,510	149.3	
Oct-34	0	0	0	0	0	0	0	0	0	0	21,300	0	0	0	0	0	21,300	0	10,107,510	149.3	
Nov-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
Dec-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
Jan-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
Feb-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
Mar-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
Apr-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
May-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
Jun-35	0	0	6,211	11,260	21,398	23,413	48,265	170	72,990	0	2,164,620	25,316	0	0	2,642	0	2,371,002	0	10,107,510	149.3	
Jul-35	0	0	728	13,432	0	8,405	0	12	8,559	0	85,325	2,923	0	0	30,026	0	89,360	0	10,107,510	149.3	
Aug-35	0	0	1,017	14,907	0	11,733	0	12	11,948	0	101,970	4,053	0	0	30,330	0	115,311	0	10,107,510	149.3	
Sep-35	0	0	1,990	13,998	0	22,967	0	4	23,387	0	621,201	7,818	0	0	11,740	0	679,625	0	10,107,510	149.3	
Oct-35	0	0	0	0	0	0	0	0	0	0	21,299	0	0	0	0	0	21,299	0	10,107,510	149.3	
Nov-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
Dec-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
Jan-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
Feb-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
Mar-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
Apr-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
May-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3	
Jun-36	0	0	6,213	11,260	21,405	23,413	48,280	170	73,006	0	2,165,011	25,321	0	0	2,642	0	2,371,436	0	10,107,510	149.3	
Jul-36	0	0	728	13,432	0	8,405	0	12	8,559	0	85,212	2,923	0	0	30,026	0	89,247	0	10,107,510	149.3	
Aug-36	0	0	1,017	14,907	0	11,733	0	12	11,948	0	101,837	4,053	0	0	30,330	0	115,178	0	10,107,510	149.3	

IVR WASTE ROCK STORAGE FACILITY

	INFLOWS					OUTFLOWS					STORAGE
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3
Date	Rainfall Runoff	SWE Runoff	IVR WRSF Runoff	IVR WRSF Seepage	GSP-2	Whale Tail (North Basin)	Whale Tail Attenuation Pond	Northeast Sector	IVR Attenuation Pond	Whale Tail Pit	Storage
May-21	0	0	0	0	0	0	0	0	0	0	0
Jun-21	8,309	17,128	244	0	0	0	25,681	0	0	0	0
Jul-21	2,983	0	18	0	0	0	3,000	0	0	0	0
Aug-21	4,164	0	18	0	0	0	4,181	0	0	0	0
Sep-21	8,150	0	6	0	0	0	8,156	0	0	0	0
Oct-21	0	0	0	0	0	0	0	0	0	0	0
Nov-21	0	0	0	0	0	0	0	0	0	0	0
Dec-21	0	0	0	0	0	0	0	0	0	0	0
Jan-22	0	0	0	0	0	0	0	0	0	0	0
Feb-22	0	0	0	0	0	0	0	0	0	0	0
Mar-22	0	0	0	0	0	0	0	0	0	0	0
Apr-22	0	0	0	0	0	0	0	0	0	0	0
May-22	0	0	0	0	0	0	0	0	0	0	0
Jun-22	6,358	13,106	244	0	0	0	0	0	19,709	0	0
Jul-22	2,282	0	18	0	0	0	0	0	2,300	0	0
Aug-22	3,186	0	18	0	0	0	0	0	3,204	0	0
Sep-22	6,237	0	6	0	0	0	0	0	6,242	0	0
Oct-22	0	0	0	0	0	0	0	0	0	0	0
Nov-22	0	0	0	0	0	0	0	0	0	0	0
Dec-22	0	0	0	0	0	0	0	0	0	0	0
Jan-23	0	0	0	0	0	0	0	0	0	0	0
Feb-23	0	0	0	0	0	0	0	0	0	0	0
Mar-23	0	0	0	0	0	0	0	0	0	0	0
Apr-23	0	0	0	0	0	0	0	0	0	0	0
May-23	0	0	0	0	0	0	0	0	0	0	0
Jun-23	4,585	9,452	541	0	0	0	0	0	14,577	0	0
Jul-23	1,529	0	43	0	0	0	0	0	1,572	0	0
Aug-23	1,969	0	47	0	0	0	0	0	2,016	0	0
Sep-23	3,536	0	16	0	0	0	0	0	3,553	0	0
Oct-23	0	0	0	0	0	0	0	0	0	0	0
Nov-23	0	0	0	0	0	0	0	0	0	0	0
Dec-23	0	0	0	0	0	0	0	0	0	0	0
Jan-24	0	0	0	0	0	0	0	0	0	0	0
Feb-24	0	0	0	0	0	0	0	0	0	0	0
Mar-24	0	0	0	0	0	0	0	0	0	0	0
Apr-24	0	0	0	0	0	0	0	0	0	0	0
May-24	0	0	0	0	0	0	0	0	0	0	0
Jun-24	2,471	5,096	894	0	0	0	0	0	8,461	0	0
Jul-24	887	0	64	0	0	0	0	0	952	0	0
Aug-24	1,238	0	64	0	0	0	0	0	1,303	0	0

IVR WASTE ROCK STORAGE FACILITY

	INFLOWS					OUTFLOWS					STORAGE
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3
Date	Rainfall Runoff	SWE Runoff	IVR WRSF Runoff	IVR WRSF Seepage	GSP-2	Whale Tail (North Basin)	Whale Tail Attenuation Pond	Northeast Sector	IVR Attenuation Pond	Whale Tail Pit	Storage
May-31	0	0	0	0	0	0	0	0	0	0	0
Jun-31	2,471	5,095	894	0	6,385	0	0	0	0	14,845	0
Jul-31	887	0	64	0	970	0	0	0	0	1,921	0
Aug-31	1,238	0	64	0	1,071	0	0	0	0	2,374	0
Sep-31	2,424	0	21	0	2,081	0	0	0	0	4,526	0
Oct-31	0	0	0	0	71	0	0	0	0	71	0
Nov-31	0	0	0	0	0	0	0	0	0	0	0
Dec-31	0	0	0	0	0	0	0	0	0	0	0
Jan-32	0	0	0	0	0	0	0	0	0	0	0
Feb-32	0	0	0	0	0	0	0	0	0	0	0
Mar-32	0	0	0	0	0	0	0	0	0	0	0
Apr-32	0	0	0	0	0	0	0	0	0	0	0
May-32	0	0	0	0	0	0	0	0	0	0	0
Jun-32	2,471	5,096	894	0	6,387	0	0	0	0	14,848	0
Jul-32	887	0	64	0	970	0	0	0	0	1,921	0
Aug-32	1,238	0	64	0	1,071	0	0	0	0	2,374	0
Sep-32	2,424	0	21	0	2,081	0	0	0	0	4,526	0
Oct-32	0	0	0	0	71	0	0	0	0	71	0
Nov-32	0	0	0	0	0	0	0	0	0	0	0
Dec-32	0	0	0	0	0	0	0	0	0	0	0
Jan-33	0	0	0	0	0	0	0	0	0	0	0
Feb-33	0	0	0	0	0	0	0	0	0	0	0
Mar-33	0	0	0	0	0	0	0	0	0	0	0
Apr-33	0	0	0	0	0	0	0	0	0	0	0
May-33	0	0	0	0	0	0	0	0	0	0	0
Jun-33	2,471	5,095	894	0	6,385	0	0	0	0	14,845	0
Jul-33	887	0	64	0	970	0	0	0	0	1,921	0
Aug-33	1,238	0	64	0	1,071	0	0	0	0	2,374	0
Sep-33	2,424	0	21	0	2,081	0	0	0	0	4,526	0
Oct-33	0	0	0	0	71	0	0	0	0	71	0
Nov-33	0	0	0	0	0	0	0	0	0	0	0
Dec-33	0	0	0	0	0	0	0	0	0	0	0
Jan-34	0	0	0	0	0	0	0	0	0	0	0
Feb-34	0	0	0	0	0	0	0	0	0	0	0
Mar-34	0	0	0	0	0	0	0	0	0	0	0
Apr-34	0	0	0	0	0	0	0	0	0	0	0
May-34	0	0	0	0	0	0	0	0	0	0	0
Jun-34	2,471	5,095	894	0	6,385	0	0	0	0	14,845	0
Jul-34	887	0	64	0	970	0	0	0	0	1,921	0
Aug-34	1,238	0	64	0	1,071	0	0	0	0	2,374	0

IVR WASTE ROCK STORAGE FACILITY

	INFLOWS					OUTFLOWS					STORAGE
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3
Date	Rainfall Runoff	SWE Runoff	IVR WRSF Runoff	IVR WRSF Seepage	GSP-2	Whale Tail (North Basin)	Whale Tail Attenuation Pond	Northeast Sector	IVR Attenuation Pond	Whale Tail Pit	Storage
May-41	0	0	0	0	0	0	0	0	0	0	0
Jun-41	2,471	5,095	894	0	6,456	0	0	0	0	14,916	0
Jul-41	887	0	64	0	780	0	0	0	0	1,732	0
Aug-41	1,238	0	64	0	1,081	0	0	0	0	2,384	0
Sep-41	2,424	0	21	0	2,113	0	0	0	0	4,558	0
Oct-41	0	0	0	0	9	0	0	0	0	9	0
Nov-41	0	0	0	0	0	0	0	0	0	0	0
Dec-41	0	0	0	0	0	0	0	0	0	0	0
Jan-42	0	0	0	0	0	0	0	0	0	0	0
Feb-42	0	0	0	0	0	0	0	0	0	0	0
Mar-42	0	0	0	0	0	0	0	0	0	0	0
Apr-42	0	0	0	0	0	0	0	0	0	0	0
May-42	0	0	0	0	0	0	0	0	0	0	0
Jun-42	2,471	5,095	894	0	6,583	0	0	0	0	15,043	0
Jul-42	887	0	64	0	833	0	0	0	0	1,785	0
Aug-42	1,238	0	64	0	1,081	0	0	0	0	2,384	0
Sep-42	2,424	0	21	0	2,113	0	0	0	0	4,558	0
Oct-42	0	0	0	0	71	0	0	0	0	71	0
Nov-42	0	0	0	0	0	0	0	0	0	0	0
Dec-42	0	0	0	0	0	0	0	0	0	0	0
Jan-43	0	0	0	0	0	0	0	0	0	0	0
Feb-43	0	0	0	0	0	0	0	0	0	0	0
Mar-43	0	0	0	0	0	0	0	0	0	0	0
Apr-43	0	0	0	0	0	0	0	0	0	0	0
May-43	0	0	0	0	0	0	0	0	0	0	0
Jun-43	2471.268	5094.551	893.8622	0	6604.684	0	0	0	0	15064.37	0
Jul-43	887.2114	0	64.44123	0	969.7833	0	0	0	0	1921.436	0
Aug-43	1238.478	0	64.44123	0	1071.374	0	0	0	0	2374.293	0
Sep-43	2424.203	0	20.78749	0	2080.807	0	0	0	0	4525.798	0
Oct-43	0	0	0	0	70.54922	0	0	0	0	70.54922	0
Nov-43	0	0	0	0	0	0	0	0	0	0	0
Dec-43	0	0	0	0	0	0	0	0	0	0	0
Jan-44	0	0	0	0	0	0	0	0	0	0	0
Feb-44	0	0	0	0	0	0	0	0	0	0	0
Mar-44	0	0	0	0	0	0	0	0	0	0	0
Apr-44	0	0	0	0	0	0	0	0	0	0	0
May-44	0	0	0	0	0	0	0	0	0	0	0
Jun-44	2471.268	5096.116	893.8622	0	6606.047	0	0	0	0	15067.29	0
Jul-44	887.2114	0	64.44123	0	969.8289	0	0	0	0	1921.481	0
Aug-44	1238.478	0	64.44123	0	1071.374	0	0	0	0	2374.293	0

EAST (LAKE A53) SECTOR / IVR ATTENUATION POND																				
	INFLOWS												OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m	
Date	Natural Runoff	Direct Runoff	Ore Runoff	Land Farm	Whale Tail Attenuation Pond	IVR Pit	IVR WRSF	North Sump	Whale Tail WRSF	Whale Tail Pit	Truck Shop	Camp Biodisk	Whale Tail Lake (North Basin)	Whale Tail Lake (South Basin)	O-WTP	Evaporation	Underground	Flush during Operations	Pond Volume	Water Level
Jan-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	154,735	161.73
Feb-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	154,735	161.73
Mar-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	154,735	161.73
Apr-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	154,735	161.73
May-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	154,735	161.73
Jun-18	122,328	17,216	0	1,353	0	0	0	0	0	0	0	0	115,154	0	0	1,393	0	0	179,085	161.90
Jul-18	14,326	7,149	0	159	0	0	0	0	0	0	0	0	5,652	0	0	15,982	0	0	179,085	161.90
Aug-18	19,998	7,935	0	221	0	0	0	0	0	0	0	0	12,010	0	0	16,143	0	0	179,085	161.90
Sep-18	39,143	7,450	0	434	0	0	0	0	0	0	0	0	40,778	0	0	6,249	0	0	179,085	161.90
Oct-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Nov-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Dec-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Jan-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Feb-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Mar-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Apr-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
May-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Jun-19	122,165	17,383	0	1,353	0	0	0	0	0	0	0	0	139,495	0	0	1,406	0	0	179,085	161.90
Jul-19	14,326	7,149	0	159	0	0	0	0	0	0	0	0	5,652	0	0	15,982	0	0	179,085	161.90
Aug-19	19,998	7,935	0	221	0	0	0	0	0	0	0	0	12,010	0	0	16,143	0	0	179,085	161.90
Sep-19	39,143	7,450	0	434	0	0	0	0	0	0	0	0	40,778	0	0	6,249	0	0	179,085	161.90
Oct-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Nov-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Dec-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Jan-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Feb-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Mar-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Apr-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
May-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Jun-20	122,190	17,386	0	1,353	0	0	0	0	0	0	0	0	0	139,524	0	1,406	0	0	179,085	161.90
Jul-20	14,326	7,149	0	159	0	0	0	0	0	0	0	0	0	5,652	0	15,982	0	0	179,085	161.90
Aug-20	19,998	7,935	0	221	0	0	0	0	0	0	0	0	0	12,010	0	16,143	0	0	179,085	161.90
Sep-20	39,143	7,450	0	434	0	0	0	0	0	0	0	0	0	40,778	0	6,249	0	0	179,085	161.90
Oct-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Nov-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Dec-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Jan-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Feb-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Mar-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Apr-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
May-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Jun-21	122,165	17,383	0	1,353	0	0	0	0	0	0	0	0	0	139,495	0	1,406	0	0	179,085	161.90
Jul-21	14,326	7,149	0	159	0	0	0	0	0	0	0	0	0	5,652	0	15,982	0	0	179,085	161.90
Aug-21	19,998	7,935	0	221	0	0	0	0	0	0	0	0	0	12,010	0	16,143	0	0	179,085	161.90
Sep-21	39,143	7,450	0	434	0	0	0	0	0	0	0	0	0	40,778	0	6,249	0	0	179,085	161.90
Oct-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Nov-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Dec-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Jan-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Feb-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Mar-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Apr-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103,157	75,928	160.91
May-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51,578	24,350	159.87
Jun-22	136,315	2,841	0	1,353	148,003	111,071	19,709	6,569	24,472	157,822	2,990	5,568	0	0	639,831	230	0	0	1,000	158.33
Jul-22	16,046	950	0	159	3,335	14,058	2,300	761	3,673	59,773	3,196	5,952	0	0	108,080	2,123	0	0	1,000	158.33
Aug-22	22,399	1,054	0	221	0	19,149	3,204	1,056	4,017	61,586	3,196	5,952	0	0	119,690	2,144	0	0	1,000	158.33

EAST (LAKE A53) SECTOR / IVR ATTENUATION POND																				
	INFLOWS												OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Direct Runoff	Ore Runoff	Land Farm	Whale Tail Attenuation Pond	IVR Pit	IVR WRSF	North Sump	Whale Tail WRSF	Whale Tail Pit	Truck Shop	Camp Biodisk	Whale Tail Lake (North Basin)	Whale Tail Lake (South Basin)	O-WTP	Evaporation	Underground	Flush during Operations	Pond Volume	Water Level
Jan-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-32	77556.62	1970.034	10886.79	1353.377	0	0	0	0	0	0	0	0	91,608	0	0	159	0	0	0	157.75
Jul-32	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9,527	0	0	1,811	0	0	0	157.75
Aug-32	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13,766	0	0	1,829	0	0	0	157.75
Sep-32	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28,902	0	0	708	0	0	0	157.75
Oct-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jan-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-33	77540.58	1969.637	10884.54	1353.097	0	0	0	0	0	0	0	0	91,589	0	0	159	0	0	0	157.75
Jul-33	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9,527	0	0	1,811	0	0	0	157.75
Aug-33	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13,766	0	0	1,829	0	0	0	157.75
Sep-33	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28,902	0	0	708	0	0	0	157.75
Oct-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jan-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-34	77540.58	1969.637	10884.54	1353.097	0	0	0	0	0	0	0	0	91,589	0	0	159	0	0	0	157.75
Jul-34	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9,527	0	0	1,811	0	0	0	157.75
Aug-34	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13,766	0	0	1,829	0	0	0	157.75
Sep-34	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28,902	0	0	708	0	0	0	157.75
Oct-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jan-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-35	77540.58	1969.637	10884.54	1353.097	0	0	0	0	0	0	0	0	91,589	0	0	159	0	0	0	157.75
Jul-35	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9,527	0	0	1,811	0	0	0	157.75
Aug-35	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13,766	0	0	1,829	0	0	0	157.75
Sep-35	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28,902	0	0	708	0	0	0	157.75
Oct-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jan-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-36	77556.62	1970.034	10886.79	1353.377	0	0	0	0	0	0	0	0	91,608	0	0	159	0	0	0	157.75
Jul-36	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9,527	0	0	1,811	0	0	0	157.75
Aug-36	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13,766	0	0	1,829	0	0	0	157.75

EAST (LAKE A53) SECTOR / IVR ATTENUATION POND																				
	INFLOWS												OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Direct Runoff	Ore Runoff	Land Farm	Whale Tail Attenuation Pond	IVR Pit	IVR WRSF	North Sump	Whale Tail WRSF	Whale Tail Pit	Truck Shop	Camp Biodisk	Whale Tail Lake (North Basin)	Whale Tail Lake (South Basin)	O-WTP	Evaporation	Underground	Flush during Operations	Pond Volume	Water Level
Jan-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-46	77540.58	1969.637	10884.54	1353.097	0	0	0	0	0	0	0	0	91588.53	0	0	159.3166	0	0	0	157.75
Jul-46	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9527.095	0	0	1810.899	0	0	0	157.75
Aug-46	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13766.02	0	0	1829.191	0	0	0	157.75
Sep-46	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28902.44	0	0	708.0739	0	0	0	157.75
Oct-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jan-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-47	77540.58	1969.637	10884.54	1353.097	0	0	0	0	0	0	0	0	91588.53	0	0	159.3166	0	0	0	157.75
Jul-47	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9527.095	0	0	1810.899	0	0	0	157.75
Aug-47	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13766.02	0	0	1829.191	0	0	0	157.75
Sep-47	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28902.44	0	0	708.0739	0	0	0	157.75
Oct-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jan-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-48	77556.62	1970.034	10886.79	1353.377	0	0	0	0	0	0	0	0	91607.5	0	0	159.3166	0	0	0	157.75
Jul-48	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9527.095	0	0	1810.899	0	0	0	157.75
Aug-48	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13766.02	0	0	1829.191	0	0	0	157.75
Sep-48	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28902.44	0	0	708.0739	0	0	0	157.75
Oct-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jan-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-49	77540.58	1969.637	10884.54	1353.097	0	0	0	0	0	0	0	0	91588.53	0	0	159.3166	0	0	0	157.75
Jul-49	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9527.095	0	0	1810.899	0	0	0	157.75
Aug-49	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13766.02	0	0	1829.191	0	0	0	157.75
Sep-49	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28902.44	0	0	708.0739	0	0	0	157.75
Oct-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jan-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-50	77540.58	1969.637	10884.54	1353.097	0	0	0	0	0	0	0	0	91588.53	0	0	159.3166	0	0	0	157.75
Jul-50	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9527.095	0	0	1810.899	0	0	0	157.75
Aug-50	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13766.02	0	0	1829.191	0	0	0	157.75

WHALE TAIL LAKE (SOUTH BASIN)																									
	INFLOWS													OUTFLOWS										STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m	
Date	Rainfall Land Runoff	SWE Land Runoff	Rainfall Lake Runoff	SWE Lake Runoff	Lake A18	East Sector	Lake A55	Lake A60	Lake A62	Lake A65	Whale Tail Dike Seepage Pumping Station	Whale Tail Lake (North Basin)	Discharge from O-WTP	Overflow to WTN	Diversion Lake A16 (Mammoth Lake)	Groundwater Infiltration	IVR Pit	Camp Use	Dust Control	Truck Shop	Drilling Water	Evaporation	Drawdown to UG / IVR Pit	Pond Volume	Water Level
Jan-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,412	0	3,196	744	0	0	4,591,416	152.49
Feb-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,178	0	2,887	672	0	0	4,585,679	152.49
Mar-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,412	0	3,196	744	0	0	4,579,327	152.48
Apr-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,334	0	3,093	720	0	0	4,573,180	152.47
May-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,412	0	3,196	744	0	0	4,566,828	152.47
Jun-18	78,414	161,653	33,763	64,160	941,469	0	418,007	223,042	78,288	346,307	0	0	0	2,299,747	0	0	0	2,334	0	3,093	1,068	7,921	0	4,597,768	152.50
Jul-18	28,120	0	40,389	0	25,899	0	24,855	0	5,090	0	0	0	0	0	0	0	0	2,412	0	3,196	1,488	90,288	0	4,624,737	152.53
Aug-18	39,040	0	45,435	0	68,679	0	43,996	4,182	8,679	12,153	0	0	0	0	0	0	0	2,412	0	3,196	1,488	92,440	0	4,747,366	152.67
Sep-18	74,971	0	44,651	0	270,738	0	125,094	60,824	23,588	95,468	0	0	0	0	0	0	0	0	0	0	0	37,451	0	5,405,248	153.36
Oct-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,405,248	153.36
Nov-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,405,248	153.36
Dec-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,405,248	153.36
Jan-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,405,248	153.36
Feb-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,405,248	153.36
Mar-19	0	0	0	0	0	0	0	0	0	0	0	1,333,333	0	0	0	13,609	0	0	0	0	0	0	0	6,724,972	154.44
Apr-19	0	0	0	0	0	0	0	0	0	0	0	711,111	0	0	0	6,585	0	0	0	0	0	0	0	7,429,498	154.73
May-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,429,498	154.73
Jun-19	349,062	719,595	129,286	245,684	0	0	55,786	223,041	47,259	0	0	1,128,365	0	0	0	23,109	0	0	0	0	0	30,330	0	10,274,140	155.60
Jul-19	130,334	0	166,486	0	0	0	0	0	0	0	0	0	0	0	0	26,040	0	0	0	0	0	372,171	0	10,172,750	155.57
Aug-19	182,271	0	183,813	0	0	0	0	4,182	0	0	0	0	0	0	0	26,040	0	0	0	0	0	373,976	0	10,143,000	155.56
Sep-19	355,072	0	174,943	0	0	0	0	60,824	0	0	0	0	0	0	0	25,200	0	0	0	0	0	146,732	0	10,561,900	155.68
Oct-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26,040	0	0	0	0	0	0	0	10,535,860	155.67
Nov-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25,200	0	0	0	0	0	0	0	10,510,660	155.66
Dec-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26,040	0	0	0	0	0	0	0	10,484,620	155.65
Jan-20	0	0	0	0	0	0	0	0	0	0	10,800	0	0	0	0	31,310	0	0	0	0	0	0	0	10,464,110	155.65
Feb-20	0	0	0	0	0	0	0	0	0	0	10,440	0	0	0	0	29,290	0	0	0	0	0	0	0	10,445,260	155.64
Mar-20	0	0	0	0	0	0	0	0	0	0	11,160	0	0	0	0	31,310	0	0	0	0	0	0	0	10,425,110	155.64
Apr-20	0	0	0	0	0	0	0	0	0	0	10,800	0	0	0	0	30,300	0	0	0	0	0	0	0	10,405,610	155.63
May-20	0	0	0	0	0	0	0	0	0	0	11,160	0	0	0	0	31,310	0	0	0	0	0	0	0	10,385,460	155.63
Jun-20	354,607	731,251	148,714	282,688	0	139,524	0	223,088	0	0	10,800	0	0	0	377,986	30,300	0	0	0	0	0	34,887	0	11,832,960	156.00
Jul-20	125,761	0	182,970	0	0	5,652	0	0	0	0	11,160	0	0	0	0	31,310	0	0	0	0	0	409,019	0	11,718,170	155.97
Aug-20	175,857	0	202,193	0	0	12,010	0	4,182	0	0	11,160	0	0	0	0	31,310	0	0	0	0	0	411,370	0	11,680,900	155.96
Sep-20	343,411	0	190,974	0	0	40,778	0	60,824	0	0	10,800	0	0	0	304,244	30,300	0	0	0	0	0	160,178	0	11,832,960	156.00
Oct-20	0	0	0	0	0	0	0	0	0	0	11,160	0	0	0	0	31,310	0	0	0	0	0	0	0	11,812,810	155.99
Nov-20	0	0	0	0	0	0	0	0	0	0	10,800	0	0	0	0	30,300	0	0	0	0	0	0	0	11,793,310	155.99
Dec-20	0	0	0	0	0	0	0	0	0	0	11,160	0	0	0	0	31,310	0	0	0	0	0	0	0	11,773,160	155.99
Jan-21	0	0	0	0	0	0	0	0	0	0	11,310	0	0	0	0	31,620	0	0	0	0	0	0	0	11,752,850	155.98
Feb-21	0	0	0	0	0	0	0	0	0	0	10,220	0	0	0	0	28,560	0</								

WHALE TAIL LAKE (SOUTH BASIN)																									
	INFLOWS													OUTFLOWS										STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m	
Date	Rainfall Land Runoff	SWE Land Runoff	Rainfall Lake Runoff	SWE Lake Runoff	Lake A18	East Sector	Lake A55	Lake A60	Lake A62	Lake A65	Whale Tail Dike Seepage Pumping Station	Whale Tail Lake (North Basin)	Discharge from O-WTP	Overflow to WTN	Diversion Lake A16 (Mammoth Lake)	Groundwater Infiltration	IVR Pit	Camp Use	Dust Control	Truck Shop	Drilling Water	Evaporation	Drawdown to UG / IVR Pit	Pond Volume	Water Level
Nov-23	0	0	0	0	0	0	0	0	0	0	10,800	0	2,700	0	0	30,600	0	0	0	0	0	0	0	11,798,760	155.99
Dec-23	0	0	0	0	0	0	0	0	0	0	11,160	0	2,790	0	0	31,620	0	0	0	0	0	0	0	11,781,090	155.99
Jan-24	0	0	0	0	0	0	0	0	0	0	11,160	0	2,790	0	0	31,620	0	0	0	0	0	0	0	11,763,420	155.98
Feb-24	0	0	0	0	0	0	0	0	0	0	10,440	0	2,610	0	0	29,580	0	0	0	0	0	0	0	11,746,890	155.98
Mar-24	0	0	0	0	0	0	0	0	0	0	11,160	0	2,790	0	0	31,620	0	0	0	0	0	0	0	11,729,220	155.97
Apr-24	0	0	0	0	0	0	0	0	0	0	10,800	0	2,700	0	0	30,600	0	0	0	0	0	0	0	11,712,120	155.97
May-24	0	0	0	0	0	0	0	0	0	0	11,160	0	2,790	0	0	31,620	0	0	0	0	0	0	0	11,694,450	155.97
Jun-24	349,920	721,586	153,798	292,353	0	0	0	223,088	0	0	10,800	0	862,550	0	2,408,905	30,600	0	0	0	0	0	36,080	0	11,832,960	156.00
Jul-24	125,605	0	183,532	0	0	0	0	0	0	0	11,160	0	199,322	0	77,723	31,620	0	0	0	0	0	410,276	0	11,832,960	156.00
Aug-24	175,334	0	203,692	0	0	0	0	4,182	0	0	11,160	0	137,835	0	86,162	31,620	0	0	0	0	0	414,420	0	11,832,960	156.00
Sep-24	343,200	0	191,264	0	0	0	0	60,824	0	0	10,800	0	206,700	0	621,767	30,600	0	0	0	0	0	160,421	0	11,832,960	156.00
Oct-24	0	0	0	0	0	0	0	0	0	0	11,160	0	9,720	0	6,360	31,620	0	0	0	0	0	0	0	11,815,860	156.00
Nov-24	0	0	0	0	0	0	0	0	0	0	10,800	0	2,700	0	0	30,600	0	0	0	0	0	0	0	11,798,760	155.99
Dec-24	0	0	0	0	0	0	0	0	0	0	11,160	0	2,790	0	0	31,620	0	0	0	0	0	0	0	11,781,090	155.99
Jan-25	0	0	0	0	0	0	0	0	0	0	11,160	0	2,790	0	0	31,620	0	0	0	0	0	0	0	11,763,420	155.98
Feb-25	0	0	0	0	0	0	0	0	0	0	10,080	0	2,520	0	0	28,560	0	0	0	0	0	0	0	11,747,460	155.98
Mar-25	0	0	0	0	0	0	0	0	0	0	11,160	0	2,790	0	0	31,620	0	0	0	0	0	0	0	11,729,790	155.97
Apr-25	0	0	0	0	0	0	0	0	0	0	10,800	0	2,700	0	0	30,600	0	0	0	0	0	0	0	11,712,690	155.97
May-25	0	0	0	0	0	0	0	0	0	0	11,160	0	2,790	0	0	31,620	0	0	0	0	0	0	0	11,695,020	155.97
Jun-25	349,920	721,363	153,799	292,264	0	0	0	223,041	0	0	10,800	0	862,550	0	2,409,117	30,600	0	0	0	0	0	36,080	0	11,832,960	156.00
Jul-25	125,605	0	183,532	0	0	0	0	0	0	0	11,160	0	199,337	0	77,738	31,620	0	0	0	0	0	410,276	0	11,832,960	156.00
Aug-25	175,334	0	203,692	0	0	0	0	4,182	0	0	11,160	0	139,252	0	87,580	31,620	0	0	0	0	0	414,420	0	11,832,960	156.00
Sep-25	343,200	0	191,264	0	0	0	0	60,824	0	0	10,800	0	209,899	0	624,966	30,600	0	0	0	0	0	160,421	0	11,832,960	156.00
Oct-25	0	0	0	0	0	0	0	0	0	0	11,160	0	9,830	0	6,470	31,620	0	0	0	0	0	0	0	11,815,860	156.00
Nov-25	0	0	0	0	0	0	0	0	0	0	10,800	0	2,700	0	0	30,600	0	0	0	0	0	0	0	11,798,760	155.99
Dec-25	0	0	0	0	0	0	0	0	0	0	11,160	0	2,790	0	0	31,620	0	0	0	0	0	0	0	11,781,090	155.99
Jan-26	0	0	0	0	0	0	0	0	0	0	0	0	90	0	0	17,246	0	372	0	0	0	0	0	11,763,560	155.98
Feb-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,577	0	336	0	0	0	0	0	11,747,650	155.98
Mar-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,246	0	372	0	0	0	0	0	11,730,030	155.97
Apr-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,689	0	360	0	0	0	0	0	11,712,980	155.97
May-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,246	0	372	0	0	0	0	1,395,000	10,300,370	155.61
Jun-26	360,929	744,060	141,855	269,568	0	0	0	223,041	0	0	0	0	0	0	0	16,689	0	360	0	0	0	33,278	1,350,000	10,639,490	155.70
Jul-26	129,023	0	162,633	0	0	0	0	0	2,889	0	0	0	0	0	0	17,246	0	372	0	0	0	363,557	1,395,000	9,157,860	155.28
Aug-26	170,590	0	160,556	0	0	0	15,360	4,182	14,848	0	0	0	0	0	0	17,246	0	372	0	0	0	326,660	1,395,000	7,784,119	154.86
Sep-26	288,785	0	129,035	0	0	0	126,013	60,824	24,224	0	0	0	0	0	0	16,689	0	360	0	0	0	108,227	1,350,000	6,937,725	154.54
Oct-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,246	0	372	0	0	0	0	1,395,000	5,525,107	153.48
Nov-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1									

WHALE TAIL LAKE (SOUTH BASIN)

	INFLOWS													OUTFLOWS											STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m		
Date	Rainfall Land Runoff	SWE Land Runoff	Rainfall Lake Runoff	SWE Lake Runoff	Lake A18	East Sector	Lake A55	Lake A60	Lake A62	Lake A65	Whale Tail Dike Seepage Pumping Station	Whale Tail Lake (North Basin)	Discharge from O-WTP	Overflow to WTN	Diversion Lake A16 (Mammoth Lake)	Groundwater Infiltration	IVR Pit	Camp Use	Dust Control	Truck Shop	Drilling Water	Evaporation	Drawdown to UG / IVR Pit	Pond Volume	Water Level	
Sep-29	72,848	0	47,570	0	270,738	0	125,094	60,824	23,588	95,468	0	0	0	0	0	16,794	639,076	360	0	0	0	39,899	0	5,547,803	153.50	
Oct-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,355	0	372	0	0	0	0	0	5,530,076	153.48	
Nov-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,795	0	360	0	0	0	0	0	5,512,920	153.47	
Dec-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,355	0	372	0	0	0	0	0	5,495,193	153.45	
Jan-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,355	0	372	0	0	0	0	0	5,477,466	153.43	
Feb-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,676	0	336	0	0	0	0	0	5,461,454	153.41	
Mar-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,355	0	372	0	0	0	0	0	5,443,727	153.40	
Apr-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,796	0	360	0	0	0	0	0	5,426,571	153.38	
May-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,355	0	372	0	0	0	0	0	5,408,844	153.36	
Jun-30	74,291	153,152	38,236	72,660	941,466	0	418,006	223,041	78,288	346,306	0	0	0	0	0	16,799	2,180,358	360	0	0	0	8,970	0	5,547,803	153.50	
Jul-30	26,661	0	45,647	0	25,899	0	24,855	0	5,090	0	0	0	0	0	0	17,362	8,376	372	0	0	0	102,041	0	5,547,803	153.50	
Aug-30	37,217	0	50,661	0	68,679	0	43,996	4,182	8,679	12,153	0	0	0	0	0	17,362	104,761	372	0	0	0	103,072	0	5,547,803	153.50	
Sep-30	72,848	0	47,570	0	270,738	0	125,094	60,824	23,588	95,468	0	0	0	0	0	16,803	639,066	360	0	0	0	39,899	0	5,547,803	153.50	
Oct-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,365	0	372	0	0	0	0	0	5,530,066	153.48	
Nov-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,805	0	360	0	0	0	0	0	5,512,901	153.47	
Dec-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,365	0	372	0	0	0	0	0	5,495,164	153.45	
Jan-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,365	0	372	0	0	0	0	0	5,477,427	153.43	
Feb-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,685	0	336	0	0	0	0	0	5,461,406	153.41	
Mar-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,365	0	372	0	0	0	0	0	5,443,669	153.40	
Apr-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,805	0	360	0	0	0	0	0	5,426,504	153.38	
May-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,365	0	372	0	0	0	0	0	5,408,767	153.36	
Jun-31	74,291	153,152	38,236	72,660	941,466	0	418,006	223,041	78,288	346,306	0	0	0	0	0	16,809	2,180,271	360	0	0	0	8,970	0	5,547,803	153.50	
Jul-31	26,661	0	45,647	0	25,899	0	24,855	0	5,090	0	0	0	0	0	0	17,373	8,365	372	0	0	0	102,041	0	5,547,803	153.50	
Aug-31	37,217	0	50,661	0	68,679	0	43,996	4,182	8,679	12,153	0	0	0	0	0	17,374	104,750	372	0	0	0	103,072	0	5,547,803	153.50	
Sep-31	72,848	0	47,570	0	270,738	0	125,094	60,824	23,588	95,468	0	0	0	0	0	16,815	639,055	360	0	0	0	39,899	0	5,547,803	153.50	
Oct-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,377	0	372	0	0	0	0	0	5,530,053	153.48	
Nov-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,817	0	360	0	0	0	0	0	5,512,877	153.47	
Dec-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,377	0	372	0	0	0	0	0	5,495,128	153.45	
Jan-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,377	0	372	0	0	0	0	0	5,477,379	153.43	
Feb-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,256	0	348	0	0	0	0	0	5,460,774	153.41	
Mar-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,377	0	372	0	0	0	0	0	5,443,025	153.40	
Apr-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,817	0	360	0	0	0	0	0	5,425,847	153.38	
May-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,378	0	372	0	0	0	0	0	5,408,098	153.36	
Jun-32	74,291	153,199	38,236	72,682	941,663	0	418,093	223,088	78,304	346,378	0	0	0	0	0	16,821	2,180,078	360	0	0	0	8,970	0	5,547,803	153.50	
Jul-32	26,661	0	45,647	0	25,899	0	24,855	0	5,090	0	0	0	0	0	0	17,387	8,351	372	0	0	0	102,041	0	5,547,803	153.50	
Aug-32	37,217	0	50,661	0	68,679	0	43,996	4,182	8,679	12,153	0	0	0	0	0	17,388	104,735	372	0	0	0	103,072	0	5,547,803	153.50	
Sep-32	72,848	0	47,570	0	270,738	0	125,094	60,824	23,588	95,468	0	0	0	0	0	16,828										

WHALE TAIL LAKE (SOUTH BASIN)

	INFLOWS													OUTFLOWS											STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m		
Date	Rainfall Land Runoff	SWE Land Runoff	Rainfall Lake Runoff	SWE Lake Runoff	Lake A18	East Sector	Lake A55	Lake A60	Lake A62	Lake A65	Whale Tail Dike Seepage Pumping Station	Whale Tail Lake (North Basin)	Discharge from O-WTP	Overflow to WTN	Diversion Lake A16 (Mammoth Lake)	Groundwater Infiltration	IVR Pit	Camp Use	Dust Control	Truck Shop	Drilling Water	Evaporation	Drawdown to UG / IVR Pit	Pond Volume	Water Level	
Jul-35	26,661	0	45,647	0	25,899	0	24,855	0	5,090	0	0	0	0	0	0	17,454	8,285	372	0	0	0	102,041	0	5,547,803	153.50	
Aug-35	37,217	0	50,661	0	68,679	0	43,996	4,182	8,679	12,153	0	0	0	0	0	17,455	104,669	372	0	0	0	103,072	0	5,547,803	153.50	
Sep-35	72,848	0	47,570	0	270,738	0	125,094	60,824	23,588	95,468	0	0	0	0	0	16,896	638,974	360	0	0	0	39,899	0	5,547,803	153.50	
Oct-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,463	0	372	0	0	0	0	0	5,529,967	153.48	
Nov-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,900	0	360	0	0	0	0	0	5,512,707	153.47	
Dec-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,464	0	372	0	0	0	0	0	5,494,871	153.45	
Jan-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,464	0	372	0	0	0	0	0	5,477,035	153.43	
Feb-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,338	0	348	0	0	0	0	0	5,460,349	153.41	
Mar-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,465	0	372	0	0	0	0	0	5,442,512	153.40	
Apr-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,902	0	360	0	0	0	0	0	5,425,250	153.38	
May-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,465	0	372	0	0	0	0	0	5,407,413	153.36	
Jun-36	74,292	153,200	38,235	72,681	941,663	0	418,093	223,088	78,304	346,378	0	0	0	0	0	16,945	2,179,270	360	0	0	0	8,970	0	5,547,803	153.50	
Jul-36	26,661	0	45,647	0	25,899	0	24,855	0	5,090	0	0	0	0	0	0	17,583	8,156	372	0	0	0	102,041	0	5,547,803	153.50	
Aug-36	37,217	0	50,661	0	68,679	0	43,996	4,182	8,679	12,153	0	0	0	0	0	17,588	104,535	372	0	0	0	103,072	0	5,547,803	153.50	
Sep-36	72,848	0	47,570	0	270,738	0	125,094	60,824	23,588	95,468	0	0	0	0	0	17,042	638,828	360	0	0	0	39,899	0	5,547,803	153.50	
Oct-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,632	0	372	0	0	0	0	0	5,529,799	153.48	
Nov-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,065	0	360	0	0	0	0	0	5,512,374	153.47	
Dec-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,635	0	372	0	0	0	0	0	5,494,367	153.45	
Jan-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,637	0	372	0	0	0	0	0	5,476,358	153.43	
Feb-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,931	0	336	0	0	0	0	0	5,460,091	153.41	
Mar-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,640	0	372	0	0	0	0	0	5,442,079	153.40	
Apr-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,072	0	360	0	0	0	0	0	5,424,647	153.38	
May-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,643	0	372	0	0	0	0	0	5,406,631	153.36	
Jun-37	74,292	153,154	38,235	72,658	941,466	0	418,006	223,041	78,288	346,306	0	0	0	0	0	17,079	2,177,865	360	0	0	0	8,970	0	5,547,803	153.50	
Jul-37	26,661	0	45,647	0	25,899	0	24,855	0	5,090	0	0	0	0	0	0	17,647	8,092	372	0	0	0	102,041	0	5,547,803	153.50	
Aug-37	37,217	0	50,661	0	68,679	0	43,996	4,182	8,679	12,153	0	0	0	0	0	17,646	104,477	372	0	0	0	103,072	0	5,547,803	153.50	
Sep-37	72,848	0	47,570	0	270,738	0	125,094	60,824	23,588	95,468	0	0	0	0	0	17,076	638,793	360	0	0	0	39,899	0	5,547,803	153.50	
Oct-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,645	0	372	0	0	0	0	0	5,529,786	153.48	
Nov-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,075	0	360	0	0	0	0	0	5,512,350	153.47	
Dec-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,645	0	372	0	0	0	0	0	5,494,334	153.45	
Jan-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,645	0	372	0	0	0	0	0	5,476,318	153.43	
Feb-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,937	0	336	0	0	0	0	0	5,460,045	153.41	
Mar-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,644	0	372	0	0	0	0	0	5,442,028	153.40	
Apr-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,075	0	360	0	0	0	0	0	5,424,593	153.38	
May-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,644	0	372	0	0	0	0	0	5,406,577	153.36	
Jun-38	74,292	153,154	38,235	72,658	941,466	0	418,006	223,041	78,288	346,306	0	0	0	0	0	17,067	2,177,823	360	0	0	0	8,970	0	5,547,803	153.50	
Jul-38	26,661	0	45,647	0	25,899	0	24,855	0	5,090	0	0	0	0	0	0	17,605	8,133	37								

Nemo Lake														
	INFLOWS				OUTFLOWS								STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Net_Summer_Precipit	Net_Winter_Precipitation	NE_Pond_Dewatering	NC Channel	Evaporation	Camp_Use_Act	Truck_shop_Ac	Drilling_water	Dust_control_A	UG_Actual	Cement_Actual	Discharge	Pond Volume	Water Level
Jan-18	0	0	0	0	0	0	0	0	0	303	0	0	8,359,697	7.08
Feb-18	0	0	0	0	0	0	0	0	0	122	0	0	8,359,575	7.08
Mar-18	0	0	0	0	0	0	0	0	0	135	0	0	8,359,440	7.08
Apr-18	0	0	0	0	0	0	0	0	0	131	0	0	8,359,309	7.08
May-18	0	0	0	0	0	0	0	0	0	135	0	0	8,359,174	7.08
Jun-18	124,903	262,523	0	0	10,867	0	0	0	0	0	0	375,733	8,360,000	7.08
Jul-18	82,037	0	0	0	123,526	0	0	0	0	0	0	0	8,318,511	7.05
Aug-18	99,562	0	0	0	124,774	0	0	0	0	0	0	0	8,293,299	7.03
Sep-18	139,791	0	0	0	48,300	2,334	3,093	1,440	0	0	0	17,922	8,360,000	7.08
Oct-18	0	0	0	0	0	2,412	3,196	1,488	0	0	0	0	8,352,904	7.08
Nov-18	0	0	0	0	0	2,334	3,093	1,440	0	0	0	0	8,346,037	7.07
Dec-18	0	0	0	0	0	2,412	3,196	1,128	0	0	0	0	8,339,301	7.07
Jan-19	0	0	0	0	0	2,412	3,196	744	0	0	0	0	8,332,950	7.06
Feb-19	0	0	0	0	0	2,178	2,887	672	0	0	0	0	8,327,212	7.06
Mar-19	0	0	0	0	0	2,412	3,196	744	0	0	0	0	8,320,860	7.05
Apr-19	0	0	0	0	0	2,334	3,093	720	0	0	0	0	8,314,713	7.05
May-19	0	0	0	0	0	2,412	3,196	744	0	0	0	0	8,308,362	7.04
Jun-19	124,903	238,257	0	0	10,867	2,334	3,093	1,069	0	0	0	294,158	8,360,000	7.08
Jul-19	82,037	0	0	0	123,526	2,412	3,196	1,488	0	0	0	0	8,311,415	7.04
Aug-19	99,562	0	0	0	124,774	2,412	3,196	1,488	0	0	0	0	8,279,107	7.02
Sep-19	139,791	0	0	0	48,300	2,334	3,093	1,440	0	0	0	3,731	8,360,000	7.08
Oct-19	0	0	0	0	0	2,412	3,196	1,488	0	0	0	0	8,352,904	7.08
Nov-19	0	0	0	0	0	2,334	3,093	1,440	0	0	0	0	8,346,037	7.07
Dec-19	0	0	0	0	0	2,412	3,196	1,488	0	0	0	0	8,338,941	7.07
Jan-20	0	0	0	0	0	2,412	3,196	1,488	0	0	0	0	8,331,846	7.06
Feb-20	0	0	0	0	0	2,256	2,990	1,392	0	0	0	0	8,325,207	7.06
Mar-20	0	0	0	0	0	2,412	3,196	1,488	0	0	0	0	8,318,112	7.05
Apr-20	0	0	0	0	0	2,334	3,093	1,440	0	0	0	0	8,311,245	7.04
May-20	0	0	0	0	0	2,412	3,196	1,488	0	0	0	0	8,304,149	7.04
Jun-20	124,903	238,330	0	0	10,867	2,334	3,093	1,440	0	0	0	289,647	8,360,000	7.08
Jul-20	82,037	0	0	8,559	123,526	2,412	3,196	2,976	0	0	0	0	8,318,486	7.05
Aug-20	99,562	0	0	11,948	124,774	2,412	3,196	2,976	0	0	0	0	8,296,638	7.03
Sep-20	139,791	0	0	23,387	48,300	2,334	3,093	2,880	0	0	0	43,209	8,360,000	7.08
Oct-20	0	0	0	0	0	2,412	3,196	2,976	0	0	0	0	8,351,416	7.08
Nov-20	0	0	0	0	0	2,334	3,093	2,880	0	0	0	0	8,343,109	7.07
Dec-20	0	0	0	0	0	2,412	3,196	2,976	0	0	0	0	8,334,525	7.06
Jan-21	0	0	0	0	0	2,412	3,196	2,976	0	0	1,626	0	8,324,316	7.05
Feb-21	0	0	0	0	0	2,178	2,887	2,688	0	0	1,468	0	8,315,095	7.05
Mar-21	0	0	0	0	0	2,412	3,196	2,976	0	0	1,626	0	8,304,885	7.04
Apr-21	0	0	0	0	0	2,334	3,093	2,880	0	0	1,573	0	8,295,004	7.03
May-21	0	0	0	0	0	2,412	3,196	2,976	0	0	1,626	0	8,284,795	7.02
Jun-21	124,903	238,257	0	72,990	10,867	2,334	3,093	2,880	0	0	1,573	340,198	8,360,000	7.08
Jul-21	82,037	0	0	8,559	123,526	2,412	3,196	2,976	0	0	1,626	0	8,316,861	7.05
Aug-21	99,562	0	0	11,948	124,774	2,412	3,196	2,976	0	0	1,626	0	8,293,387	7.03
Sep-21	139,791	0	0	23,387	48,300	2,334	3,093	2,880	0	0	1,573	38,385	8,360,000	7.08
Oct-21	0	0	0	0	0	2,412	3,196	2,976	0	0	1,626	0	8,349,790	7.08
Nov-21	0	0	0	0	0	2,334	3,093	2,880	0	0	1,573	0	8,339,911	7.07
Dec-21	0	0	0	0	0	2,412	3,196	2,976	0	0	1,626	0	8,329,701	7.06
Jan-22	0	0	0	0	0	2,412	3,196	2,976	0	0	1,725	0	8,319,393	7.05

Nemo Lake														
	INFLOWS				OUTFLOWS								STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Net_Summer_Precipita	Net_Winter_Precipitation	NE_Pond_Dewatering	NC Channel	Evaporation	Camp_Use_Act	Truck_shop_Ac	Drilling_water	Dust_control_A	UG_Actual	Cement_Actual	Discharge	Pond Volume	Water Level
Jun-38	124,903	238,257	0	0	10,867	0	0	0	0	0	0	352,293	8,360,000	7.08
Jul-38	82,037	0	0	0	123,526	0	0	0	0	0	0	0	8,318,511	7.05
Aug-38	99,562	0	0	0	124,774	0	0	0	0	0	0	0	8,293,299	7.03
Sep-38	139,791	0	0	0	48,300	0	0	0	0	0	0	24,789	8,360,000	7.08
Oct-38	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Nov-38	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Dec-38	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jan-39	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Feb-39	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Mar-39	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Apr-39	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
May-39	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jun-39	124,903	238,257	0	0	10,867	0	0	0	0	0	0	352,293	8,360,000	7.08
Jul-39	82,037	0	0	0	123,526	0	0	0	0	0	0	0	8,318,511	7.05
Aug-39	99,562	0	0	0	124,774	0	0	0	0	0	0	0	8,293,299	7.03
Sep-39	139,791	0	0	0	48,300	0	0	0	0	0	0	24,789	8,360,000	7.08
Oct-39	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Nov-39	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Dec-39	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jan-40	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Feb-40	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Mar-40	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Apr-40	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
May-40	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jun-40	124,903	238,330	0	0	10,867	0	0	0	0	0	0	352,366	8,360,000	7.08
Jul-40	82,037	0	0	0	123,526	0	0	0	0	0	0	0	8,318,511	7.05
Aug-40	99,562	0	0	0	124,774	0	0	0	0	0	0	0	8,293,299	7.03
Sep-40	139,791	0	0	0	48,300	0	0	0	0	0	0	24,789	8,360,000	7.08
Oct-40	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Nov-40	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Dec-40	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jan-41	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Feb-41	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Mar-41	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Apr-41	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
May-41	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jun-41	124,903	238,257	0	0	10,867	0	0	0	0	0	0	352,293	8,360,000	7.08
Jul-41	82,037	0	0	0	123,526	0	0	0	0	0	0	0	8,318,511	7.05
Aug-41	99,562	0	0	0	124,774	0	0	0	0	0	0	0	8,293,299	7.03
Sep-41	139,791	0	0	0	48,300	0	0	0	0	0	0	24,789	8,360,000	7.08
Oct-41	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Nov-41	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Dec-41	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jan-42	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Feb-42	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Mar-42	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Apr-42	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
May-42	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jun-42	124,903	238,257	0	0	10,867	0	0	0	0	0	0	352,293	8,360,000	7.08

Nemo Lake

[illegible]

Nemo Lake

[illegible]

WATER TREATMENT

	INFLOWS: Metal WTP						INFLOWS: TSS WTP	INFLOWS: RO Plant		INFLOWS: Saltmaker	Bypass	Total Inflows	Bypass	OUTFLOWS: Lake A16 (Mammoth Lake) / Whale Tail Lake (South Basin)					OUTFLOWS: GSP (Brine)	Total Outflows
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon
		Whale Tail Attenuation Pond		IVR Attenuation Pond (Contact Water)	Northeast Sector	IVR Attenuation Pond (Lake A53 Dewatering)	Whale Tail Lake (North Basin)	Whale Tail Attenuation Pond	GSP-2	GSP-1	A53 Bypass	Total Inflows	Bypass to Mammoth Lake	O-WTP to Mammoth Lake	O-WTP to Whale Tail Lake (South Basin)	S-WTP (Brackish) to Mammoth Lake	RO Permeate to Whale Tail Lake (South Basin)	S-WTP (Brine) to Whale Tail Lake (South Basin)	RO Brine to GSP-1	Total Discharge
Date	Quarry 1																			
Jan-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sep-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jan-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun-19	237,261	462,519	0	0	235,932	0	1,128,365	0	0	0	0	2,064,078	0	935,712	1,128,365	0	0	0	0	2,064,077
Jul-19	0	107,320	0	0	22,599	0	0	0	0	0	0	129,920	0	129,920	0	0	0	0	0	129,920
Aug-19	0	129,974	0	0	33,497	0	0	0	0	0	0	163,471	0	163,471	0	0	0	0	0	163,471
Sep-19	0	212,628	0	0	73,742	0	0	0	0	0	0	286,370	0	286,370	0	0	0	0	0	286,370
Oct-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jan-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun-20	0	476,647	236,680	0	235,981	0	0	0	0	0	0	949,308	0	949,308	0	0	0	0	0	949,308
Jul-20	0	87,355	482	0	0	0	0	0	0	0	0	87,837	0	87,837	0	0	0	0	0	87,837
Aug-20	0	108,876	0	0	0	0	0	0	0	0	0	108,876	0	108,876	0	0	0	0	0	108,876
Sep-20	0	181,702	0	0	0	0	0	0	0	0	0	181,702	0	181,702	0	0	0	0	0	181,702
Oct-20	0	0	0	0	0	0	0	31,000	0	0	0	31,000	0	0	0	26,350	0	0	4,650	31,000
Nov-20	0	0	0	0	0	0	0	30,000	0	0	0	30,000	0	0	0	25,500	0	0	4,500	30,000
Dec-20	0	0	0	0	0	0	0	31,000	0	0	0	31,000	0	0	0	26,350	0	0	4,650	31,000
Jan-21	0	0	0	0	0	0	0	31,000	0	0	0	31,000	0	0	0	26,350	0	0	4,650	31,000
Feb-21	0	0	0	0	0	0	0	28,000	0	0	0	28,000	0	0	0	23,800	0	0	4,200	28,000
Mar-21	0	0	0	0	0	0	0	31,000	0	0	0	31,000	0	0	0	26,350	0	0	4,650	31,000
Apr-21	0	0	0	0	0	0	0	30,000	0	0	0	30,000	0	0	0	25,500	0	0	4,500	30,000
May-21	0	0	0	0	0	0	0	31,000	0	0	0	31,000	0	0	0	26,350	0	0	4,650	31,000
Jun-21	0	480,098	0	0	0	0	0	0	0	0	0	480,098	0	480,098	0	0	0	0	0	480,098
Jul-21	0	82,532	0	0	0	0	0	0	0	0	0	82,532	0	82,532	0	0	0	0	0	82,532
Aug-21	0	102,043	0	0	0	0	0	0	0	0	0	102,043	0	102,043	0	0	0	0	0	102,043
Sep-21	0	167,690	0	0	0	0	0	0	0	0	0	167,690	0	167,690	0	0	0	0	0	167,690
Oct-21	0	0	0	0	0	0	0	31,000	0	0	0	31,000	0	0	0	0	26,350	0	4,650	31,000
Nov-21	0	0	0	0	0	0	0	30,000	0	0	0	30,000	0	0	0	0	25,500	0	4,500	30,000
Dec-21	0	0	0	0	0	0	0	31,000	0	0	0	31,000	0	0	0	0	26,350	0	4,650	31,000
Jan-22	0	0	0	0	0	0	0	31,000	0	0	0	31,000	0	0	0	0	26,350	0	4,650	31,000
Feb-22	0	0	0	0	0	0	0	28,000	0	0	0	28,000	0	0	0	0	23,800	0	4,200	28,000
Mar-22	0	0	0	0	0	0	0	31,000	0	0	0	31,000	0	0	0	0	26,350	0	4,650	31,000
Apr-22	0	0	0	0	0	0	0	0	0	1,740	103,157	104,897	103,157	0	0	0	0	1,740	0	104,897
May-22	0	0	0	0	0	51,578	0	0	0	1,860	0	53,438	0	51,578	0	0	0	1,860	0	53,438



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APPENDIX D • WHALE TAIL WATER QUALITY FORECAST UPDATE



REPORT

Mine Site and Downstream Receiving Water Quality Predictions - 2019 Annual Report

Whale Tail Pit - Phase 1 Permit, Approved Project

Submitted to:

Frederick Bolduc

Mines Agnico-Eagle, Meadowbank Division
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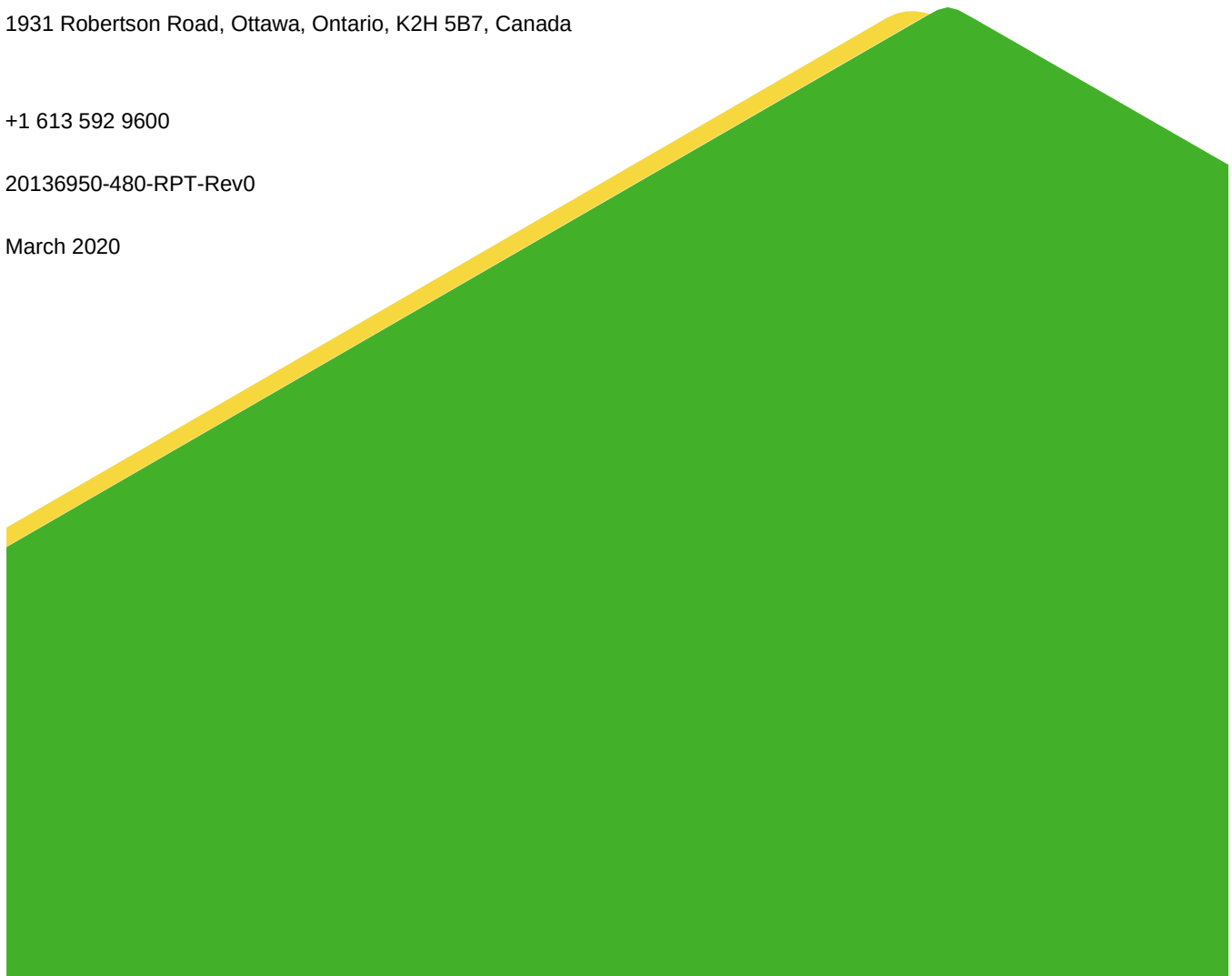
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March 2020



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APPENDICES**APPENDIX A**

Geochemical Source Terms and Water Quality Inputs

APPENDIX B

Mass Balance Inputs and Assumptions

APPENDIX C

Site and Downstream Water Quality Model Results

List of Acronyms

Agnico Eagle	Agnico Eagle Mines Limited – Meadowbank Division
Approved Project	Whale Tail Pit and Haul Road
CEQG-PAL	Canadian Environmental Quality Guidelines for the Protection of Aquatic Life
CCME	Canadian Council of Ministers of the Environment
EA	Environmental Assessment
EQC	Effluent Quality Criteria
Expansion Project	Whale Tail Pit – Expansion Project
FEIS	Final Environmental Impact Statement
Golder	Golder Associates Ltd.
ML	Metal Leaching
NML	Non-Metal Leaching
NPAG	Non-potentially Acid Generating
NWB	Nunavut Water Board
O-WTP	Operations Water Treatment Plant
PAG	Potentially Acid Generating
SSWQO	Site specific water quality objective
STP	Sewage Treatment Plant
TDS	Total Dissolved Solids
TSS	Total Suspended Solids
WRSF	Waste Rock Storage Facility

1.0 INTRODUCTION

Agnico Eagle Mines Limited Meadowbank Division (Agnico Eagle) is currently operating the Whale Tail satellite deposit on the Amaruq exploration property, which 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 the Meadowbank Mine, in the Kivalliq region of Nunavut (Figure 1). The property was acquired by Agnico Eagle in April 2013 subject to a mineral exploration agreement with Nunavut Tunngavik Incorporated.

The Approved Project supports mining of ore from one open pit (i.e., Whale Tail Pit) and its processing over a three- to four-year mine life. The project will see deposits being mined using conventional open pit mining methods. Waste rock and overburden will be stored in the Whale Tail Waste Rock Storage Facility (WRSF); excess non potentially acid generating or metal leaching (NPAG/NML) waste rock will be segregated and stockpiled separately (Figure 2). The ore will be processed at the existing mill in the Portage area of the Meadowbank Mine, and tailings will be deposited in the existing Meadowbank Mine tailings storage facility.

Water quality predictions for the Approved Project were completed by Golder Associates Ltd. (Golder) in 2016 to support the Environmental Assessment (EA) and Water Licence Type A Application for the Whale Tail Pit (Agnico Eagle 2016a), which were revised in 2017 to support the regulatory process. Further updates to the water quality predictions were completed in 2016 to support the Water Licence B Application for the Whale Tail Underground Mine. Similar to the water quality predictions generated in 2016 and 2017 for the Approved Project, updated water quality predictions were generated in support of the EA for the Expansion Project (Golder 2018a), using the same modelling platform as the Approved Project, but informed by additional purpose-built and more detailed models to address issues raised during the EA of the Approved Project. Since then, model inputs have been further refined to more accurately predict arsenic and phosphorus leaching to site waters. The refinements and modifications show a large positive effect on water quality including a decrease in the arsenic and phosphorus loads to the receiving environment throughout mine life.

Golder was retained to forecast the probable quality of mine contact water to support the annual reporting, as mandated in the Type A Water Licence 2AM-WTP1826. The site and downstream water quality models were retroactively updated from the model used to support the Type A Water Licence Amendment for the Expansion Project (Golder 2019a). This allows for the incorporation of an increased level of understanding of system processes acquired throughout the past modelling efforts for the Approved and Expansion Projects, including the understanding of Waste Rock Storage Facility (WRSF) hydrology and updated hydrogeological inputs. Furthermore, the site water balance and water quality model for the Approved Project has been updated with the recorded water transfers in 2019. This report provides a summary of the modelling approach, including the parameters and assumptions adopted in the mass balance model, and a summary of the water quality forecasts of the main mine components and downstream receiving environment.

\\ATH\Yibumab\CAD-GIS\Client\Agnico_Eagle_Mines_Ltd\Whale_Tail\99_PROJECTS\190603702_PRODUCTION\300\MXD\1340\Report\1906037_1300_1340_1_1_1_PROJECT_LOCATION.mxd PRINTED ON: 2016-11-22 AT: 9:35:09 AM



LEGEND

- COMMUNITY
- HAUL ROAD
- ALL WEATHER ROAD
- WHOLE TAIL PIT
- MEADOWBANK OPERATION AND INFRASTRUCTURE
- WATERCOURSE
- WATERBODY

KEY MAP

0 12 24
1:600,000 KILOMETRES

REFERENCE(S)

1. HAUL ROAD OBTAINED FROM AGNICO EAGLE MINES LIMITED.
2. WATERCOURSE AND WATERBODY DATA OBTAINED FROM CANVEC © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
3. INSET MAP DATA OBTAINED FROM ESRI.

DATUM: NAD 83 CSRS PROJECTION: UTM ZONE 14

AGNICO EAGLE

CLIENT
**AGNICO EAGLE MINES LIMITED:
MEADOWBANK DIVISION**

PROJECT
WHALE TAIL PIT

TITLE
PROJECT LOCATION

CONSULTANT	YYYY-MM-DD	2018-11-22
	DESIGNED	JR
	PREPARED	CDB
	REVIEWED	JR
	APPROVED	DF

PROJECT NO. 1896037	CONTROL 1300/1340	REV. 0	FIGURE 1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

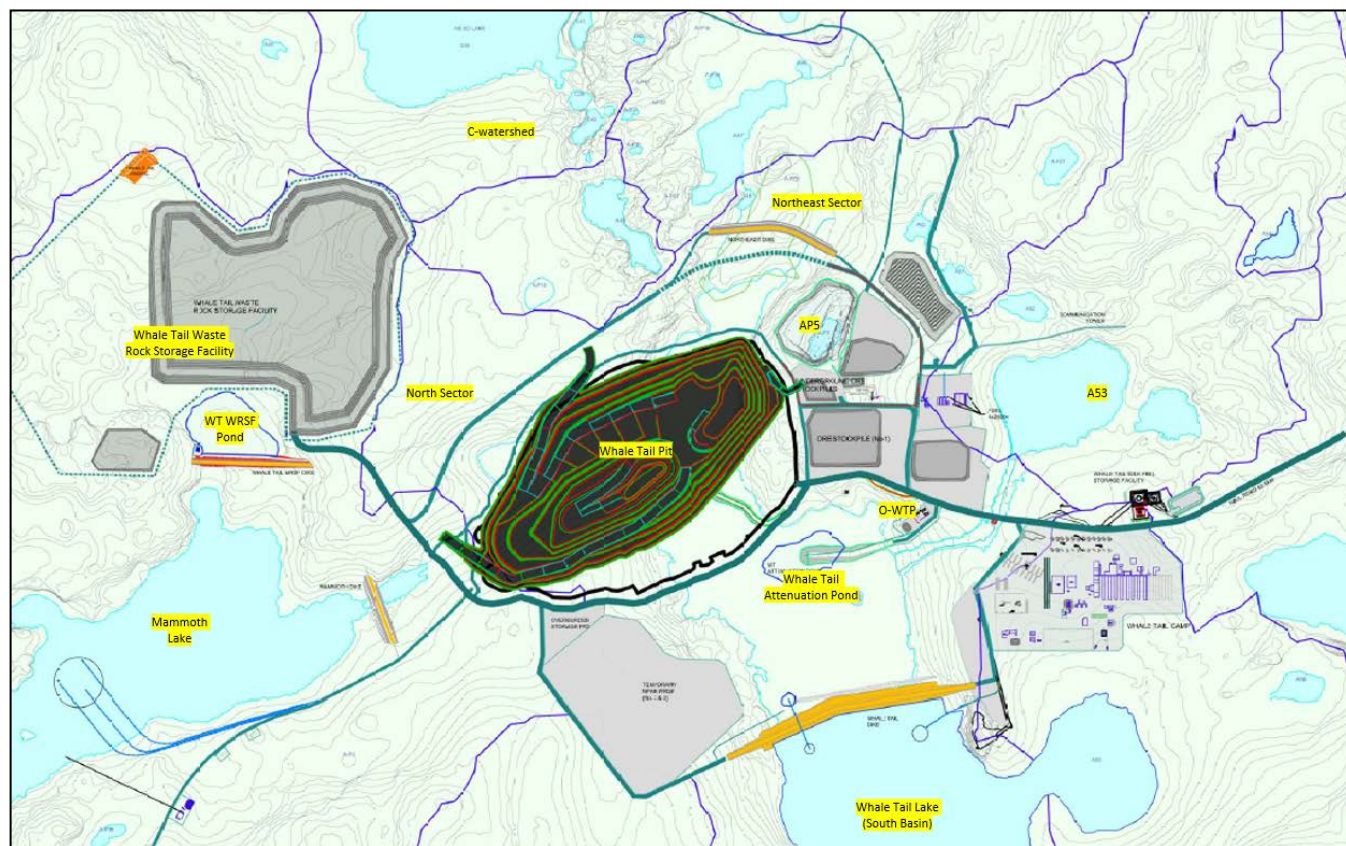


Figure 2: Site Layout, Final Mining Year 2022

2.0 MODELLING APPROACH

The model was completed using GoldSim software version 11.1 (GoldSim 2016). GoldSim is a graphical, object-oriented mathematical model where all input constituents and functions are defined by the user and are built as individual objects or elements linked together by mathematical expressions. The object-based nature of the model is designed to facilitate understanding of the various factors, which control an engineered or natural system and predict the future performance of the system. The GoldSim mass balance model is integrated with the water balance model for operations, closure, and post-closure (Golder 2020a). Each flow that could influence site discharge water quality for the Approved Project was itemized and assigned a source term chemical profile based on geochemical testing of waste rock materials, observed mine site facility water quality at the Meadowbank and Meliadine Mine operations, baseline surface water quality monitoring data, and site groundwater monitoring data.

Many of the geochemical assumptions are consistent with the existing model used for the Approved Project although there have been some updates to constituent leaching rates from new and on-going test work. Additionally updates were made based on information from other models (Figure 3) to simulate the hydrogeological inflows, submerged pit wall diffusion of arsenic, and hydrogeochemical properties of the flooded pit lake and Mammoth Lake. Results of the other models that are incorporated into the GoldSim Model include the following:

- Hydrogeological model (Golder 2020b) to project groundwater flows and water quality into the Whale Tail Attenuation Pond and Whale Tail Pit in operations, closure, and post closure;

- Thermal modelling of the Whale Tail WRSF to project the extent of the active layer (Golder 2019b);
- Hydrological modelling of the Whale Tail WRSF to project runoff, basal seepage, and interflow volumes, flow interaction depths, and material with which the flows interact (Appendix E of Golder 2019c);
- Hydrodynamic model for Mammoth Lake (Golder 2019d) to project the extent of mixing within the lake in operations and post-closure;
- Hydrodynamic pit lake models for Whale Tail Pit to project development of stratification and frequency of turnover events during and after flooding (Golder 2019e); and
- Effluent dispersion models for Mammoth Lake to project the extent of the effluent plume in the receiving environment during operations (Golder 2019f).

Of particular importance, as this introduces a conceptual change and model update relative to the previous Approved Project model, is that the hydrodynamic pit lake model suggests twice-annual turnover; these processes are then reflected in the GoldSim site water quality model by assuming fully mixed conditions year-round. Additionally, the hydrodynamic Mammoth Lake model suggests full mixing of effluent water within Mammoth Lake, which is also reflected in the GoldSim downstream water quality model.

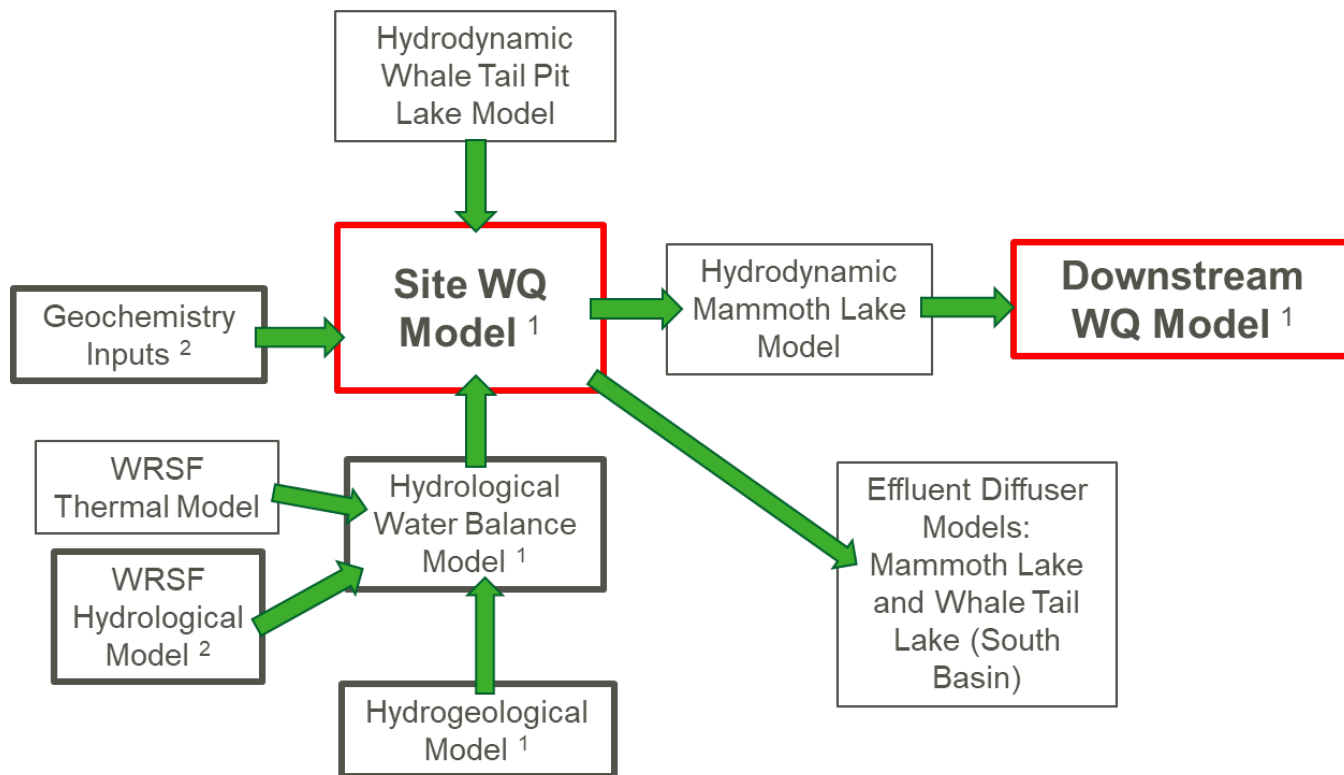
In the GoldSim model, on-site facilities that accumulate water (e.g., water management ponds, pits, and sumps) are treated as distinct reservoirs within the model. Inflow volumes and concentrations or mass loads are included as inputs to each reservoir to account for chemical loadings from natural areas, developed areas, waste rock runoff and seepage, pit wall rock runoff, and groundwater inflows, to project the chemistry of contact water quality that is sourced from each of these mine facilities.

The water quality model is designed to estimate these chemistries as a monthly average concentration, from construction (2018 – 2019), through operations (2019 – July 2022), closure (August 2022 – June 2027), into post-closure (July 2027+). It tracks the chemistry of the following water quality constituent groups:

- Major ions: calcium, chloride, fluoride, magnesium, potassium, sodium, and sulphate;
- Nutrients: nitrate, total ammonia, and total phosphorus; and
- Dissolved metals: mercury, silver, aluminum, arsenic, barium, beryllium, boron, bismuth, cadmium, cobalt, chromium, copper, iron, lithium, manganese, molybdenum, nickel, lead, antimony, selenium, strontium, tin, thallium, uranium, vanadium, and zinc.

Total dissolved solids (TDS) was not modelled but is calculated externally using the predictions of major ions as per the APHA (2017).

Total constituent concentrations are calculated based on modelled dissolved concentrations for on-site facilities, accounting for a particulate fraction for each constituent based on a total suspended solids (TSS) concentration and associated geochemical testing, which is added to the modelled dissolved concentrations. These total constituents were tracked as they dispersed hydrodynamically in the downstream receiving environment without accounting for any settling out of particulate matter. Particulate fractions are discussed further in Appendix B.



Bold boxes highlight changes made to this model version

1 – Models were updated for the current Annual Report

2 – Models were included in Expansion Project Water Licence A Amendment Application and applied to the Approved Project

Figure 3: Components of Modelling Package used for Water Quality Predictions for the Approved Project

2.1 Water Balance and Mine Components Relevant to Water Quality Predictions

The operational, closure, and post-closure mine site water balance for the Approved Project was completed and documented in the Water Balance Report (Golder 2020a). For operations, the following infrastructure components are considered in the prediction of mine site water quality:

- Whale Tail Lake (North Basin) as it is dewatered to Whale Tail Lake (South Basin) and Mammoth Lake.
- Quarry 1, the collection point for mine contact water prior to Whale Tail Lake (North Basin) being dewatered. Quarry 1 becomes part of the Whale Tail Pit in July 2020, when the Whale Tail Attenuation Pond is available to collect site contact water.
- Whale Tail Pit sump, and the flooded Whale Tail Pit through closure and post-closure.
- Whale Tail WRSF, where waste rock and overburden stripped from the Whale Tail Pit will be permanently stored, and the Whale Tail WRSF Contact Water Collection System (WRSF Pond), which will collect contact water from the Whale Tail WRSF. The Whale Tail WRSF will be progressively covered throughout operations.
- A marginal ore pile located within the footprint of the Whale Tail WRSF.
- The North Sump, which diverts water from the Whale Tail Pit catchment area to the active contact water management pond.

- A NPAG/NML stockpile that will store material used for the progressive cover of the WRSF.
- Temporary stockpiles of ore and construction waste rock and soil (esker material).
- Operations pads, including the camp area and roads.
- A landfarm for storage of soils that have potentially come into contact with hydrocarbons.
- Natural areas within the Project catchment, including the diversion of runoff from the Northeast Sector.
- Lake A53 as it is diverted to Whale Tail Lake (North Basin) during the dewatering period, or Whale Tail Lake (South Basin) during operations.
- Whale Tail Attenuation Pond, the final collection point for all surface contact waters during operations, starting in July 2020.
- AP5, which is temporarily used to accommodate the storage of contact water on site between Q4 2017 and December 2019.
- Water Treatment Plant for Total Suspended Solids (TSS) and arsenic. The TSS unit of the water treatment plant (C-WTP) is commissioned during construction prior to addition of the arsenic treatment unit. Once the arsenic treatment unit is commissioned, both units form the Operations Water Treatment Plant (O-WTP), which was assumed to treat water in the summer at a maximum rate of 1,600 m³/hr and discharges to Mammoth Lake during operations. The O-WTP is not intended to be required for closure purposes but will remain on site as a contingency.
- A sewage treatment plant (STP), which discharges treated effluent at a rate of 77.8 m³/day in operations and 12 m³/day in closure. No STP is required in post-closure.
- Whale Tail Lake (South Basin) (i.e., Lake A17 South or the portion of Whale Tail Lake located south of the dike).
- Mammoth Lake (Lake A16) (Figure 4).
- Mammoth Lake Outlet (Figure 4).
- Two downstream locations that represent inflows to Lake DS1 (i.e., prior to entering Lake DS1), which will be the final monitoring points for downstream water quality (Downstream Nodes 1 and 2 [hereafter referred to as DS1 and DS2, respectively]) (Figure 4).

Collection ditches, dams, and pipes are not considered in the water quality model.

Dewatering flows, seepage flows, and surface contact water flows are captured and treated through the O-WTP year-round. Site contact water that has been shown not to exceed effluent limits is discharged directly through the diffusers without requiring treatment.

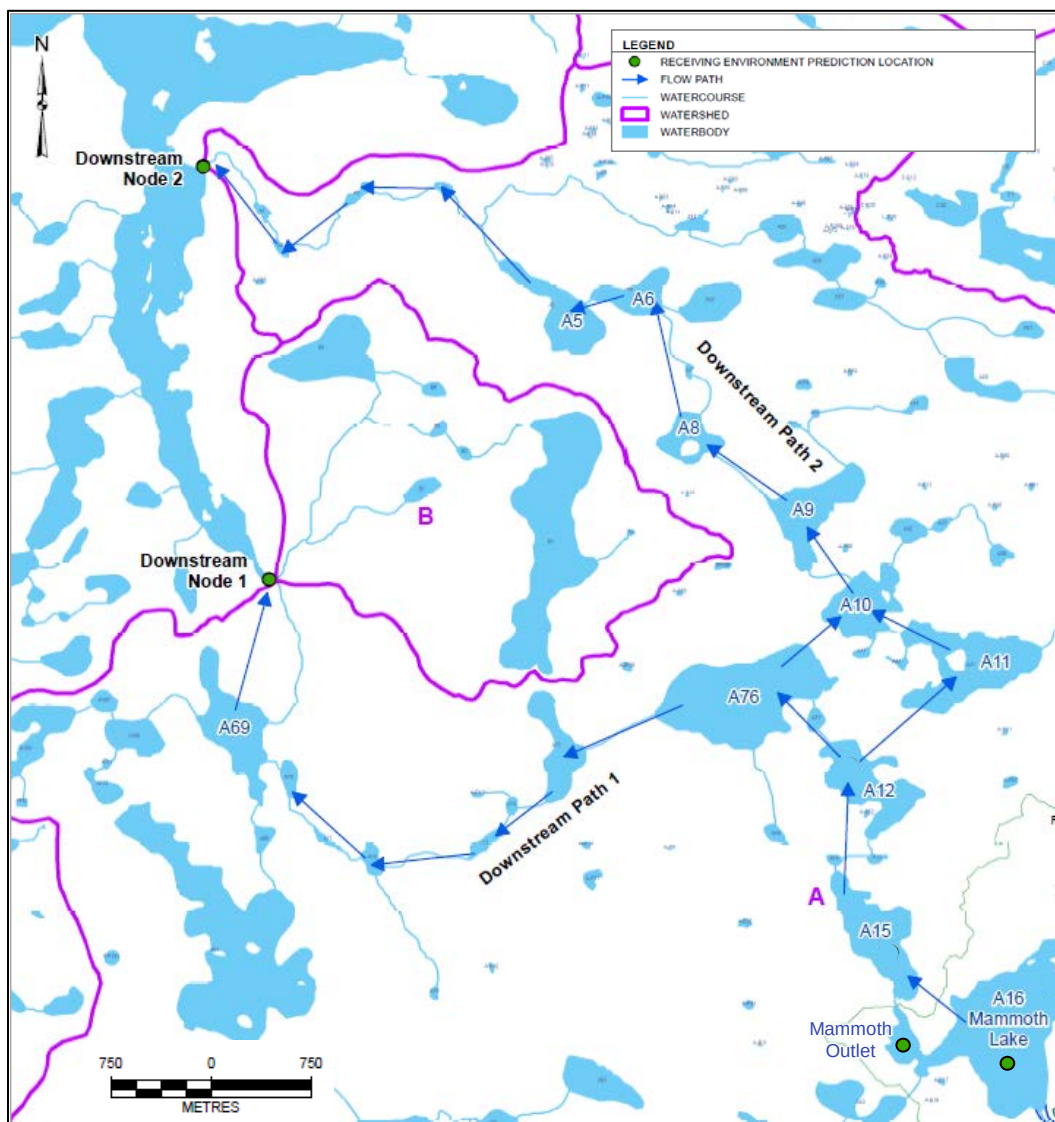


Figure 4: Receiving Environment Flow Paths and Prediction Locations

2.1.1 Changes to Approved Model

The following updates were made to the site water balance model, which potentially influence water quality predictions:

- WRSF runoff and seepage flows: These flows were updated (Appendix E of Golder 2019c). Basal seepage from the WRSF was determined to be negligible and was therefore not included in the updates. Runoff from the WRSF is predicted to be approximately 5% of the annual precipitation. The remaining precipitation is lost to evaporation or infiltrates the piles. The water that infiltrates will percolate vertically through the WRSF and will become locked in the frozen core. Less than 1% of precipitation is expected to report as interflow, which is infiltrated water that flows laterally within the cover system.
- Hydrogeological inflows: Hydrogeological inflows to Whale Tail Lake (North Basin)/Whale Tail Attenuation Pond and Whale Tail Pit were updated following updated hydrogeological model predictions during operations, closure, and post-closure (Golder 2020b).

Table 1 summarizes the assumptions made in the site and downstream water quality model that are related to the water balance.

Table 1: Changes in General Water Balance Assumptions Pertinent to the Water Quality Model

Property	Assumption	Operations (2018 – July 2022)	Closure (August 2022 – June 2027) ¹	Post- Closure (≥July 2027)
On-Site Assumptions:				
Whale Tail WRSF	5% of annual precipitation on the piles reports as runoff. Basal seepage volumes occur only at the beginning of operations and were considered to be negligible. Interflow was predicted to occur after 80 years from pile initiation.	X	X	X
Whale Tail Contact Water Collection System	A flow-through system (i.e., no accumulation of volume) through operations and closure, with the exception of some accumulation through 2019, based off actual site data.	X	X	
Whale Tail Pit groundwater inflows and outflows	Groundwater inflows and outflows are determined through hydrogeological modelling. Modelling shows that freeze back of the pit walls may occur towards the end of mine life but will thaw once the Whale Tail Pit is flooded. Once flooded, the pit lake becomes a weak groundwater recharge point (Golder 2020).	X	X	X
Hydrological reconnection of Whale Tail Lake with Mammoth Lake	The pit lake is flooded when it reaches a water surface elevation of 153.5 masl.			X
Operational efficiency of the O-WTP	The O-WTP is assumed to have an operational efficiency of 85%; that is, it is assumed to be down for maintenance or other operational reasons 15% of the time.	X		
AP5 Closure and Post-closure	Remaining water content of AP5 is removed at closure and AP5 is subsequently backfilled with NPAG/NML waste rock. Catchment runoff flows by gravity ultimately to the Whale Tail Pit Lake/North Basin.		X	X
Receiving and Downstream Environment Assumptions:				
Ice formation	2.0 m of ice is conservatively assumed to form instantaneously over the entire surface area of Mammoth Lake and Whale Tail Lake (South Basin) on October 1 of every year. The volume of ice is then melted back into the respective lake over a 30-day period in each subsequent June.	X	X	X
Whale Tail Lake (South Basin)	Seepage and shallow groundwater conducted through the base of the Whale Tail Dike and collected in the Whale Tail Dike Well sump is intermittently managed by pumping back to Whale Tail Lake (South Basin) throughout 2019. In 2020, it is assumed that the sump collects 50% of the seepage and shallow groundwater, which is consistently pumped back to Whale Tail Lake (South Basin). The lake is assumed to be instantly mixed; hydrodynamic modelling predictions showed Whale Tail Lake (South Basin) will be fully mixed.	X	X	X

Table 1: Changes in General Water Balance Assumptions Pertinent to the Water Quality Model

Property	Assumption	Operations (2018 – July 2022)	Closure (August 2022 – June 2027) ¹	Post- Closure (≥July 2027)
Mammoth Lake	Received some non-contact water flow from Whale Tail Lake (South Basin) in 2019 as part of the Whale Tail Project Water Management Strategy (Agnico Eagle 2019d). Received some Whale Tail WRSF Pond seepage through the Whale Tail WRSF dike as documented by Agnico Eagle (2020a). Assumed to be instantly mixed as modelled (Golder 2019d).	X		
Mammoth Lake Outlet	Represents the outflow of Mammoth Lake that routinely is hydrologically disconnected from the main body of the lake. Volume in main body of Mammoth Lake and catchment area adjusted to account for this outflow as a separate water body. This is to remain consistent with the plume mixing model which does not include this outlet volume.	X	X	X

Notes:

¹End of closure will be defined by the water level in the flooded Whale Tail Lake (North Basin) reaching 153.5 masl and water quality in Whale Tail Pit Lake meeting receiving water quality objectives. Post-closure will be initiated at that time, and the Whale Tail and Mammoth dikes will be decommissioned.

WRSF = waste rock storage facility; WTP = water treatment plant; NPAG/NML = Non-potentially acid generating/Non-metal leaching; m = metre; masl = metres above sea level; m³/hr = cubic metres per hour; % = percent.; AP5 = temporary contact water storage pond; TSS = total suspended solids; TDS = total dissolved solids

2.2 Mass Balance Model

This section summarizes the mass balance inputs and assumptions for on-site facilities and the downstream receiving environment. Generally, water management on site can be separated into:

- Surface contact water flows, which are managed through Quarry 1, AP5, and the Whale Tail Attenuation Pond:
 - Runoff from constructed pads
 - Runoff from construction material stockpiles and ore stockpiles
 - Pit wall runoff
 - Groundwater inflows to the Whale Tail Pit and to the Whale Tail Attenuation Pond
 - Runoff from the Whale Tail WRSF
 - Camp use water
- Non-contact flows:
 - Diverted natural catchment runoff (i.e., Northeast Pond)
 - Lake dewatering flows (i.e., Whale Tail Lake [North Basin])
 - Dike seepage, which is collected separately and discharged directly without requiring treatment

These flows are managed by the following facilities:

- Whale Tail WRSF Pond: Receives natural runoff from the catchment area, runoff from the WRSF, and direct precipitation.
- Quarry 1: Begins development in late 2017, and acts as a collection point for all site contact water until July 2020. It also receives natural catchment runoff, pit wall runoff, and drilling fluids. In July 2020 it becomes part of the larger Whale Tail Pit.
- Whale Tail Pit: Receives pit wall runoff, natural catchment runoff, direct precipitation on the sump pond surface, drilling fluids, and groundwater inflows, which are a combination of regional groundwater, Whale Tail Lake (South Basin) water, and Whale Tail Attenuation Pond water.
- Whale Tail Attenuation Pond: Receives all site contact water beginning in July 2020. It also receives natural catchment runoff (natural runoff and lakebed sediment runoff), direct precipitation, treated sewage effluent, and groundwater inflows, which are a combination of regional groundwater and Whale Tail Lake (South Basin) water.
- Whale Tail South Dike seepage collection point: Collects seepage through the Whale Tail South Dike, which is primarily lake water from Whale Tail Lake (South Basin) but contains a component of regional groundwater inflow and is assumed to interact with blasting residue in the collection ditch. A sump pumps this water back over the dike into Whale Tail Lake (South Basin) without treatment when water quality is appropriate for direct discharge. In late 2019, activities commenced to install a grout curtain beneath the Whale Tail Dike. At this point, all seepage through the dike was directed to the Whale Tail Attenuation Pond and included in the flow through the O-WTP. This will continue until the installation of the grout curtain is complete, as such activities contribute elevated concentrations of constituents associated with grout, and TSS. Water will not be pumped to Whale Tail Lake (South Basin) during this time (Agnico Eagle 2019e).
- AP5: Temporarily collects contact water until December 2020, as well as portal catchment runoff.
- Water Treatment Plants: The final site effluent is a combination of water treated through the O-WTP (for phosphorus, arsenic, and TSS) and untreated dewatering and seepage flows. The treated effluent is discharged to Mammoth Lake; however, some seepage flows and direct discharge flows (not requiring treatment) are directed to Whale Tail Lake (South Basin).

2.2.1 Loading Sources to the Mass Balance Model

Elements of the model that represent loading sources of waste rock or other material include:

- Whale Tail WRSF
- Ore Stockpiles
- Construction Material Stockpile
- Developed areas
- NPAG/NML Stockpile
- Pit walls
- Landfarm

- Lakebed sediments
- Groundwater inflows

The effect on water quality from materials present in ditches, dikes, berms, and other water retaining structures is expected to be insignificant compared to contact water sources; as such, loading from these sources was considered negligible and not taken into account in the site water quality model. Further details on the assumptions surrounding mass loads may be found in Appendix A and B.

2.2.2 Changes to the Approved Model

General site water quality and chemical loading rate inputs and assumptions have been maintained from the Water Licence Amendment Application model, and relevant assumptions can be found in Appendix B. Notable updates and changes to inputs and assumptions in the Approved Model are listed below and in Table 2.

- The inclusion of predictions of total constituents on site and in the downstream receiving environment.
- The location of a landfarm within the catchment area of Lake A53.
- The location of a marginal ore stockpile within the Whale Tail WRSF footprint, which drains by gravity to the Whale Tail WRSF Pond.
- Annual proportions of waste rock versus cover in the WRSF were provided by the results of the hydrological WRSF modelling (Appendix E of Golder 2019c).
- A change in approach of the application of water quality to lakebed sediments such that a loading-based approach is now used rather than a concentration-based approach (Appendix A).
- Ice formation on Mammoth Lake and Whale Tail Lake (South Basin), to conservatively simulate the effects of cryo-concentration.
- Update of the composition and lithological proportions of waste rock in the Whale Tail WRSF and exposed in the pit walls. The pit wall proportions were approximated and applied as constant values over the life of mine. Waste rock tonnages and proportions, and pit wall areas and proportions are shown in Appendix B and described below:
 - The area of lithologies exposed in the final pit shell were provided by Agnico Eagle.
 - The monthly to quarterly tonnages of total waste rock, ore, and overburden mined over the life of mine from each pit were provided by Agnico Eagle (2020b).
 - As the general orientation of lithologies in the pit is vertical, the areas of the lithologies in the final pit shell were also applied to the total tonnage of waste rock. The lithological tonnages were then adjusted to account for the use of NPAG/NML material as construction material, and ore that would be segregated from the waste rock. Lithological proportions in the active layer of the WRSF were calculated using these final tonnages.
 - Areas of lithologies exposed in the walls of the early Whale Tail Pit and Quarry 1 were defined based on figures of the block model provided by Agnico Eagle.

Table 2: Changes in Surface Facility Assumptions

Item	Approved FEIS	Approved Annual Reporting Model	Reasoning
Pit wall areas	1 m interaction depth on all pit bench, floor, and wall surfaces	1 m interaction depth on pit benches and floors; no interaction with the pit walls	It is unlikely that surface runoff over the pit walls will significantly acquire a mass load; rather, the majority of the load will be sourced from pit benches and floors.
WRSF runoff interaction depth	1 m interaction depth for runoff on both horizontal and vertical faces of WRSF benches	0.3 m interaction depth for runoff on both horizontal and vertical faces of WRSF benches.	To remain consistent with the results of the hydrological WRSF modelling (Appendix E of Golder 2019c).
Seepage in WRSF	Seepage occurs once the active layer (4.7 m) reaches field capacity.	No seepage is accounted for within the temporal boundaries of the model.	Basal seepage is predicted to occur only in negligible amounts at the beginning of operations (Appendix E of Golder 2019c).
Interflow (infiltrated flow throughout the cover material) in WRSF	No interflow accounted for; all precipitation reported as either runoff or seepage.	No interflow accounted for within the temporal boundaries of the model.	Interflow is predicted to occur in post-closure; however, this is outside of the model's temporal boundaries (Appendix E of Golder 2019c)
Ratio of waste rock to cover material interacting with runoff in WRSF	WRSF is assumed to be covered only in closure.	WRSF is covered progressively; ratio of waste rock to cover material in the Whale Tail WRSF is applied	To remain consistent with results of the hydrological WRSF modelling (Appendix E of Golder 2019c).
Diorite phosphorus loading	Based solely on humidity cell test results	Scaled to the liquid to solid ratio of column test results (closer to field conditions), based on trends of the differences in loadings between humidity cell tests (HCTs) and column tests	Consistently higher phosphorus loading rates were observed from the HCTs compared to more site-specific column tests, for all rock types, due to a higher dissolution rate associated with the higher volume of water used in the HCT. See Appendix D of Golder 2019a for further details.
Treatment limit for phosphorus in the STP	1 mg/L	0.5 mg/L	Agnico Eagle 2019c
Treatment limit for phosphorus in the O-WTP	-	0.05 mg/L	Agnico Eagle 2018d
Assumed TSS in site facilities	15 mg/L	15 mg/L	Consistent with MDMER effluent regulations.
Assumed TSS in treated effluent	15 mg/L	Winter: 15 mg/L Summer: 7.5 mg/L	Consistent with MDMER effluent regulations, and anticipated treatment efficiency of O-WTP. Considered conservative based on site data.
Assumed TSS in Pit Lake in post-closure	15 mg/L	1 mg/L	Golder 2019f
Assumed TSS in Whale Tail WRSF Pond in post-closure	15 mg/L	10 mg/L	Golder 2019f

3.0 WATER QUALITY PREDICTIONS

Water quality model results for on-site facilities and downstream lakes during operations, closure, and post-closure are presented in Appendix C. Time series figures comparing modelled concentrations to measured data and applicable guidelines are included in the following sections for arsenic and phosphorus as these constituents presented the highest number of modelled exceedances.

Modelled water quality constituent predictions represent total constituent concentrations. Total concentrations for on-site facilities during operations and closure are estimated using an assumption of 15 mg/L of TSS to calculate a particulate fraction for each constituent that is then added to the modelled dissolved concentration. It is possible that TSS concentrations in the facilities on site will exceed 15 mg/L; however, all site contact water is collected and treated to a maximum of 15 mg/L TSS when necessary, prior to discharge. It is anticipated that treatment efficiency in the summer months will allow for a treated concentration of 7.5 mg/L of TSS. Therefore, predicted treated effluent concentrations assume a TSS concentration of 15 mg/L in the winter and 7.5 mg/L in the summer (Agnico Eagle, pers. comm 2019). Once total constituents enter the downstream environment, they are treated conservatively and are only subject to dispersion (i.e., are assumed to remain in suspension and not settle out).

Predicted concentrations have been compared to specific water quality criteria; constituents that exceed their applicable criteria are highlighted in Appendix C. On-site water quality predictions are compared to the Water Licence effluent limits (or effluent quality criteria; EQC) (NWB 2018) in operations and closure, while the post-closure predictions are compared to the Canadian Council of Ministers of Environment Canadian Environmental Quality Guidelines for the Protection of Aquatic Life (CEQG-PAL) (CCME 2007). The downstream receiving environment predictions throughout operations, closure, and post-closure, are also compared to the CCME guidelines. Note that where applicable, arsenic concentrations are compared to the Site-Specific Water Quality Objective (SSWQO) of 0.025 mg/L in place of the CCME guidelines.

Predicted concentrations are monthly mean values. Given the uncertainties associated with the modelling exercise and use of an average climate year, the predicted concentrations are considered to be order-of-magnitude estimates. Actual water quality will largely depend on the mine plan and management practices followed during mining, and on-site conditions related to water movement and chemical loading. In that respect, the extent to which site water quality conditions are influenced by each of the source terms during operations and closure is bound by some uncertainty. For example, the actual rate of dissolution of rock particles in the WRSF and the subsequent release of chemical constituents into drainage water will be heavily influenced by the mining sequence and its timing (e.g., the quantity and types of rock lithologies exposed and area of development as mining advances). Site water quality conditions will also be influenced by the volume of water infiltrating the rock pile, and thus the degree of contact between water and rock and dissolution kinetics under site conditions, and the internal characteristics of the pile itself (e.g., temperature, degree of saturation, presence of ice). The latter will depend largely on climate, particularly the amount of precipitation and evaporation, and the ambient air temperature.

The modelling has assumed that site contact water streams will not be influenced by acid rock drainage inputs. It is assumed that PAG rock management is effective at preventing the development of acid rock drainage by segregating and progressively covering the Whale Tail WRSF with a cover of NPAG/NML waste rock that encompasses the full depth of the anticipated active thaw layer (4.7 m; Golder 2018e), allowing the centre of the pile to freeze. The pH of most contact water streams is therefore expected to be circum-neutral given the low sulphide content and ample carbonate mineral buffering capacity of mine wastes. The rock types that have been identified as PAG demonstrate slow reaction rates in kinetic testing (Golder 2018b).

The input of explosives by-products (i.e., ammonia and nitrate) to site contact water streams has been included in the modelling. The concentration of these nitrogen residuals in site contact water is sensitive to the management of blasting agents during their use. Given the proximity and similarity both in setting and operation of the Project to the Meadowbank Mine (similar mining rate, explosives type and explosives usage rate), it was assumed that similar nitrogen and ammonia contents would occur in the waste rock, and open pit drainages.

Water quality predictions for on-site mine contact waters and downstream receiving lakes for the operations, closure, and post-closure phases are discussed in the next sections.

3.1 Operations Phase

3.1.1 Surface Operations

The quality of surface infrastructure contact waters including the Whale Tail WRSF Contact Water Collection System, Whale Tail Pit sump, Quarry 1, and Whale Tail Attenuation Pond are all predicted to meet the Water Licence effluent limits for all constituents except arsenic and occasionally, phosphorus, indicating the need for treatment in order to meet site effluent limits. Treatment of arsenic, phosphorus, and TSS in the discharge to their effluent limits (or achievable treatment limits, in the case of total phosphorus) was assumed in the modelling and carried into the receiving environment; all other constituents are not modelled as being treated at the discharge point.

Whale Tail WRSF

Phosphorus and arsenic concentration in the WRSF Collection Pond are shown in Figure 5. Concentrations are higher in the summer months when there is a lower contact water runoff volume. Peak concentrations are reached in July and August, when rainfall is the lowest and there is less runoff from the pile.

The model is currently showing a slight underprediction of total phosphorus concentrations and an overprediction of total arsenic concentration compared to measured site data. The slight underprediction of total phosphorus is within an order of magnitude and is considered to be within the error of the model, and the measured data remain well below the effluent limit. The overprediction of total arsenic concentrations is more than an order of magnitude. However, despite these discrepancies, WRSF contact water is intended to be treated when necessary, so the risk from this input source to the receiving environment is low. Should the discrepancy between measured and modelled arsenic and phosphorus continue in subsequent years, the loading rates and/or conceptual model for the WRSF will be revisited.

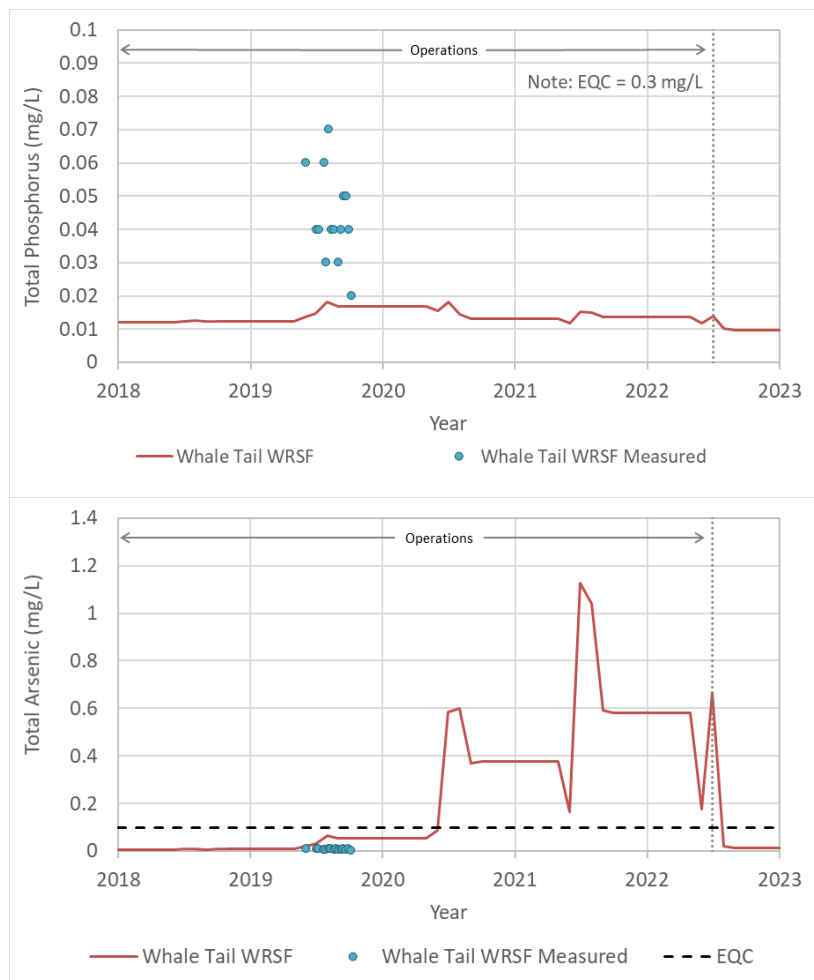


Figure 5: Projected total phosphorus (a) and total arsenic (b) concentrations for the Whale Tail WRSF during operations. Open circles represent non-detected values at the detection limit for measured data.

Whale Tail Pit

In the Whale Tail Pit sump (Figure 6), predicted arsenic concentrations are lowest throughout the winter (October through May), when there is no pit wall runoff and proportionally more contribution of groundwater and drilling water to the pit sumps, which have lower arsenic concentrations. Pit sump water concentrations increase through the summer months, reaching a peak in July and August before decreasing from September through the winter months. Elevated concentrations in the summer months are related to loading from pit wall runoff. Conversely, predicted phosphorus concentrations are lower throughout the summer and become elevated in the winter, due to the relatively undiluted groundwater inflows.

The largest source of arsenic is from runoff over pit benches and floors, followed by shallow groundwater seepage at the south wall, which is sourced in part from seepage at the base of the Whale Tail Attenuation Pond. The largest source of phosphorus is the shallow groundwater seepage at the south wall, which contains both regional groundwater and seepage from the base of the Whale Tail Attenuation Pond.

Measured pit sump data shows general agreement between measured total arsenic concentrations and predicted values. There is some daily variability in the measured data that show that higher concentrations in the pit sump

are possible; however, the majority of the data are consistent with and within the same order of magnitude as the predicted concentrations. Similar to the WRSF, some discrepancy exists between measured data and modelled total phosphorus; this discrepancy will be monitored with pit development, and loading rates and/or the conceptual model revisited if necessary.

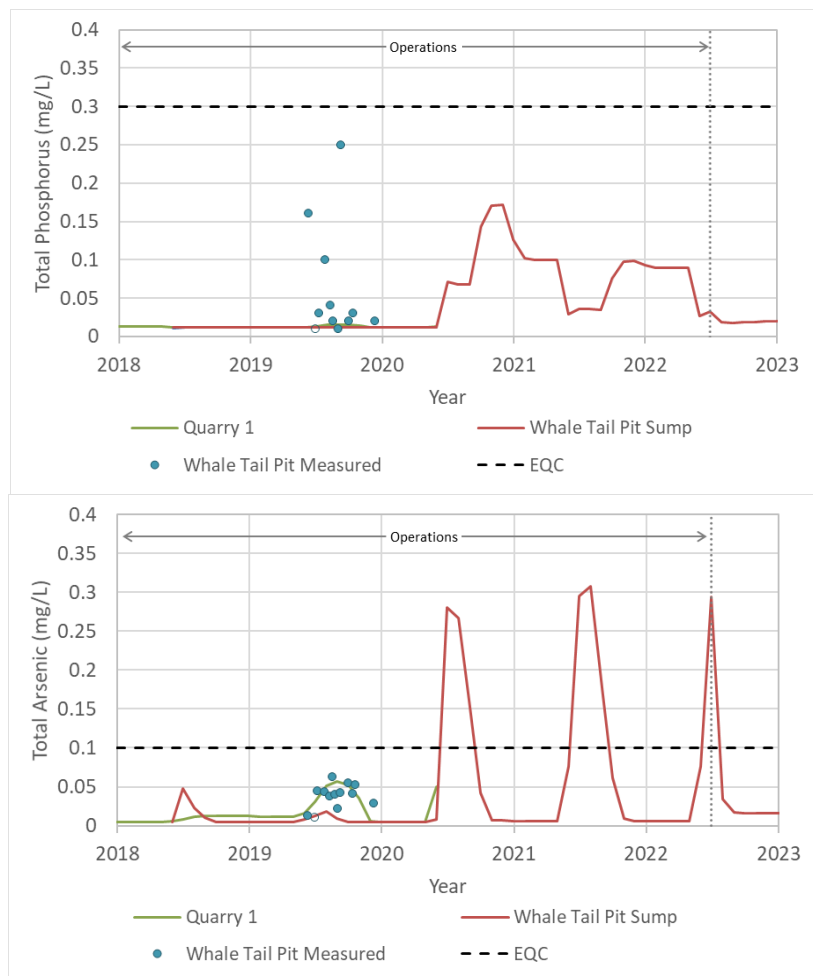


Figure 6: Projected total phosphorus (a) and total arsenic (b) concentrations for Quarry 1 and the Whale Tail Pit sump during operations. Open circles represent non-detected values at the detection limit for measured data.

Quarry 1 and the Whale Tail Attenuation Pond

Quarry 1 was used as a contact water management pond throughout 2019 as the Whale Tail Lake (North Basin) was undergoing dewatering. It is intended to be emptied (through the O-WTP, if necessary) in June 2020, at which point it will continue to be developed and become part of the Whale Tail Pit.

The mostly dewatered Whale Tail Attenuation Pond was used in 2019 to collect seepage water through the Whale Tail Dike; this water was deemed fit for direct discharge. Once Quarry 1 will be emptied in June 2020, the Whale Tail Attenuation Pond will become the primary contact water management pond.

Quarry 1 shows predicted total arsenic concentrations that increase throughout 2019, as it accumulates contact water. Concentrations remain below the effluent limit. Predicted total phosphorus concentrations show a slight increase throughout 2019 but generally remain stable over time.

The Whale Tail Attenuation Pond (Figure 7) predicts that arsenic concentrations increase from July through August and decrease again from September through the winter months. During operations, this water is expected to require treatment for arsenic before discharge to the receiving environment. Predicted total phosphorus concentrations show a sharp increase in 2019. Although dewatering was ongoing at the time, Whale Tail Lake (North Basin) was collecting treated sewage effluent, lakebed sediment runoff, and a large proportion of regional groundwater inflows. These sources contributed to the elevated phosphorus; once the basin is completely dewatered, the majority of groundwater inflows to the area are sourced from Whale Tail Lake (South Basin), which results in a decrease in phosphorus concentrations. Total phosphorus in the Whale Tail Attenuation Pond is predicted to meet the effluent limit (0.3 mg/L); however, the O-WTP is anticipated to treat to 0.05 mg/L, which will allow for a reduction in total phosphorus load to the receiving environment.

Measured data for Whale Tail Lake (North Basin) show concentrations within the range of predicted concentrations. There are some daily values of elevated total phosphorus that are consistent with predicted values; however, this may be due to natural variability in daily conditions. It is also known that activities to complete a grout curtain below the Whale Tail Dike began in November 2019. All seepage water through the dike at that point was directed to the Whale Tail Lake (North Basin)/Whale Tail Attenuation Pond, which is likely to have contained elevated concentrations of phosphorus and other major ions. This was not explicitly accounted for in the model as there would be too much uncertainty surrounding the magnitude of this extra load, and any discharge would have been treated if necessary.

WTP Effluent Discharge

The O-WTP effluent (Figure 7) will meet licence limits (NWB 2018). All constituents that are regulated under the Water Licence A (NWB 2018) are predicted to be less than their respective effluent limits and are not anticipated to require treatment, with the exception of arsenic. Though phosphorus is not predicted to exceed the Water Licence A effluent limit (0.3 mg/L), it is expected to be (and is modelled as being) treated to 0.05 mg/L through the O-WTP.

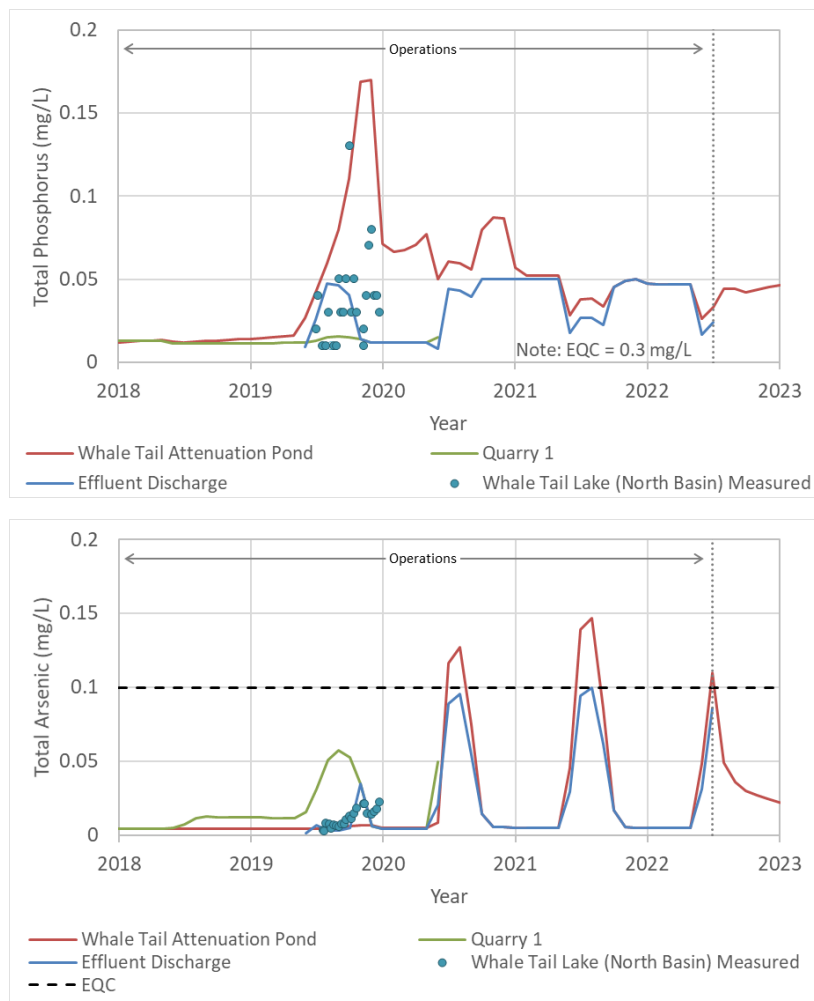


Figure 7: Projected total phosphorus (a) and total arsenic (b) concentrations for the Quarry 1 and Whale Tail Attenuation Pond prior to treatment, and treated WTP effluent discharge during operations. Open circles represent non-detected values at the detection limit for measured data.

3.1.2 Receiving Environment and Downstream Lakes

Results presented for the receiving environment and downstream lakes assume fully mixed conditions (as predicted for Mammoth Lake (Golder 2019d)), where the effluent and downstream lake overflow volumes and associated chemical loads are assumed to be transferred instantaneously. It is expected that changes in concentrations in the downstream lakes due to effluent discharge will show a lag, which will increase with distance from the discharge location.

During the operations phase, treated water is discharged from the O-WTP, through a diffuser, to Mammoth Lake. Seepage through the Whale Tail Dike is also collected in a sump and pumped over the dike into Whale Tail Lake (South Basin) (except during a period of time where activity on the installation of a grout curtain is occurring at the Whale Tail Dike, during which all seepage is collected in the Whale Tail Attenuation Pond). The seepage water quality is expected to be similar to water in the Whale Tail Lake (South Basin). However, based on Meadowbank data, it may have additional nitrogen species loadings due to potential contact with blasted material used in the construction of the dike. The effects of the grouting activities, though not accounted for in the model, include an increase in the measured concentration of major ions and some metals.

Model results for the receiving and downstream environment were compared to the CCME guidelines. Total phosphorus concentrations in Mammoth Lake and Whale Tail Lake (South Basin) during the open water season (June through September) show temporary increases above the upper end of the oligotrophic trigger range (oligotrophic-mesotrophic range of 0.004 to 0.01 mg/L P). Under-ice concentrations are expected to increase further due to the effects of cryo-concentration. With respect to the furthest downstream model nodes, which are inlets to Lake DS1 (see Figure 4), these exceedances are propagated to Downstream Node 2 (DS2), though Downstream Node 1 (DS1) is predicted to remain within the oligotrophic range.

In Mammoth Lake, measured phosphorus data have generally been in agreement with the modelled predictions until the fall of 2019, when predicted concentrations have been higher than measured data. In Whale Tail Lake (South Basin), total phosphorus concentrations have been consistent between modelled predictions and measured data.

Modelled arsenic concentrations consistently meet the SSWQO in Mammoth Lake and Whale Tail Lake (South Basin) throughout operations, with the exception of October and November of 2021, where concentrations slightly exceed the SSWQO under ice conditions. However, the risk of this exceedance occurring as predicted is low, due to the conservatism in the model surrounding the assumptions of ice formation (e.g., the model includes instantaneous ice formation to 2 m as of October 1). It is anticipated that the full formation of ice will not be realized in October or November, and more likely will occur in January or February. The more probable scenario of less than 2 m of ice in October or November would reduce the likelihood of the predicted exceedance not occurring. Furthermore, 2 m of ice is a conservative assumption based on site data that show maximum ice depths of approximately 1.8 m.

In Mammoth Lake, modelled arsenic concentrations are higher than measured data at the end of 2019 but otherwise show good agreement. In Whale Tail Lake (South Basin), measured total arsenic concentrations are consistent with the modelled predictions.

Modelled total iron and total aluminum concentrations also show some exceedances of the CCME guidelines in Mammoth Lake; the exceedances of total aluminum are propagated to DS2 (DS1 remains below the CCME guidelines for all constituents during operations). There are also exceedances of total aluminum and iron in Whale Tail Lake (South Basin); however, these occur in the winter months and are a result of cryo-concentration. In general, the total iron and aluminum exceedances are primarily due to the assumed level of particulate forms of these metals from the TSS assumed in mine discharges to the receiving environment (i.e., 15 mg/L in winter, and 7.5 mg/L in open water conditions). The range of particulate concentrations of aluminum and iron in the site discharge are very conservative (0.16 to 0.33 mg/L and 0.34 to 0.68 mg/L, respectively), and although the total concentrations remain within effluent limits, the ranges are higher than the CCME guidelines. Furthermore, the particulate form of these metals has been modelled to remain in suspension and not settle out after discharge to Mammoth Lake; this is a conservative assumption. Measured total iron and aluminum concentrations in Mammoth Lake have remained below the CCME guidelines to date with many measurements reported below or at detection limits.

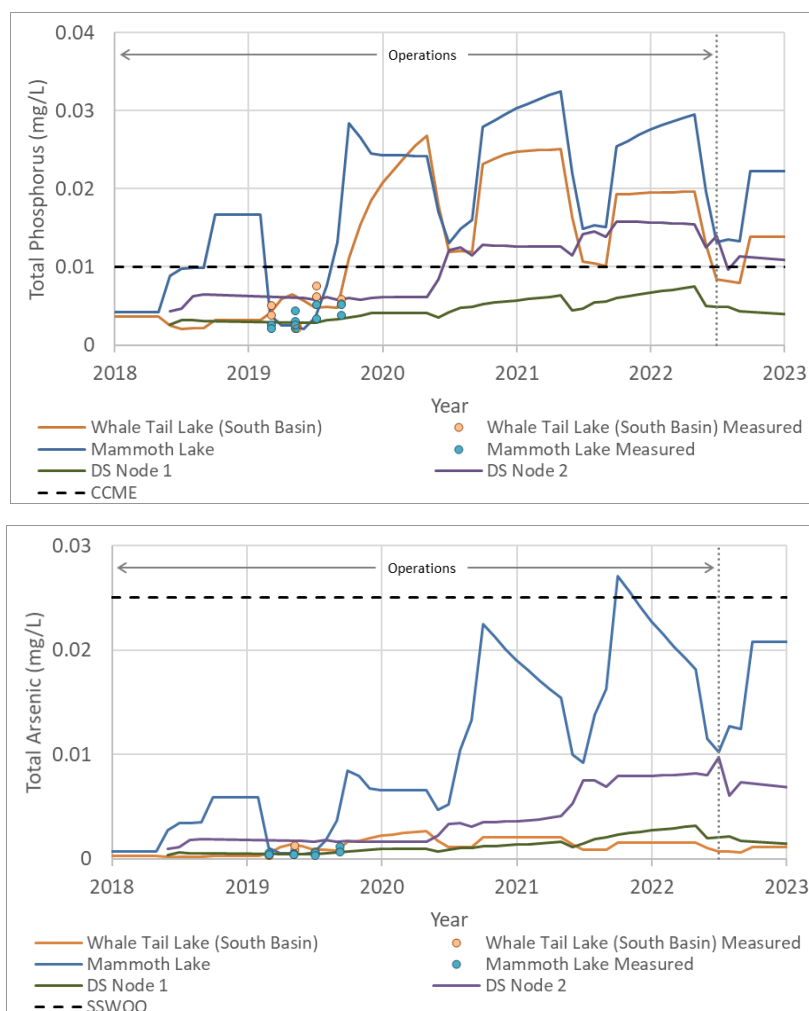


Figure 8: Projected total phosphorus (a) and total arsenic (b) concentrations for the receiving and downstream environment during operations. Open circles represent non-detected values at the detection limit in measured data.

3.2 Closure

3.2.1 Surface Operations

In early closure, all site contact water is transferred into the open pit, which is predicted to be completely flooded to 153.5 masl by 2027. During this time, site contact water quality improves as a result of closure activities including the completion of the cover over the WRSF, flooding of the open pit, and removal of stockpiles with the eventual reclamation of all constructed pads.

As the pit is reflooding, a comprehensive water quality monitoring program will be undertaken to ensure that both physical and chemical stability are achieved within the pit by the time it is fully flooded. The results from the monitoring program will be compared to model predictions, which in turn will inform the reflooding strategy if required, which may be adapted to achieve closure objectives. The closure objective is that pit lake water will meet water quality objectives concurrently with completed reflooding so that lake reconnection can occur once the pit lake reaches its full supply level.

Whale Tail WRSF

The WRSF contact water quality is predicted to show a marked improvement upon completion of the cover (Figure 9). Total arsenic and phosphorus concentrations are predicted to be lowest during the spring freshet due to dilution by melt water and non-contact flows. Concentrations are slightly higher in the summer months when there is a lower contact water runoff volume, peaking in July. Basal seepage is not anticipated to occur, as per the results of the hydrological modelling of the WRSF (Appendix E of Golder 2019c).

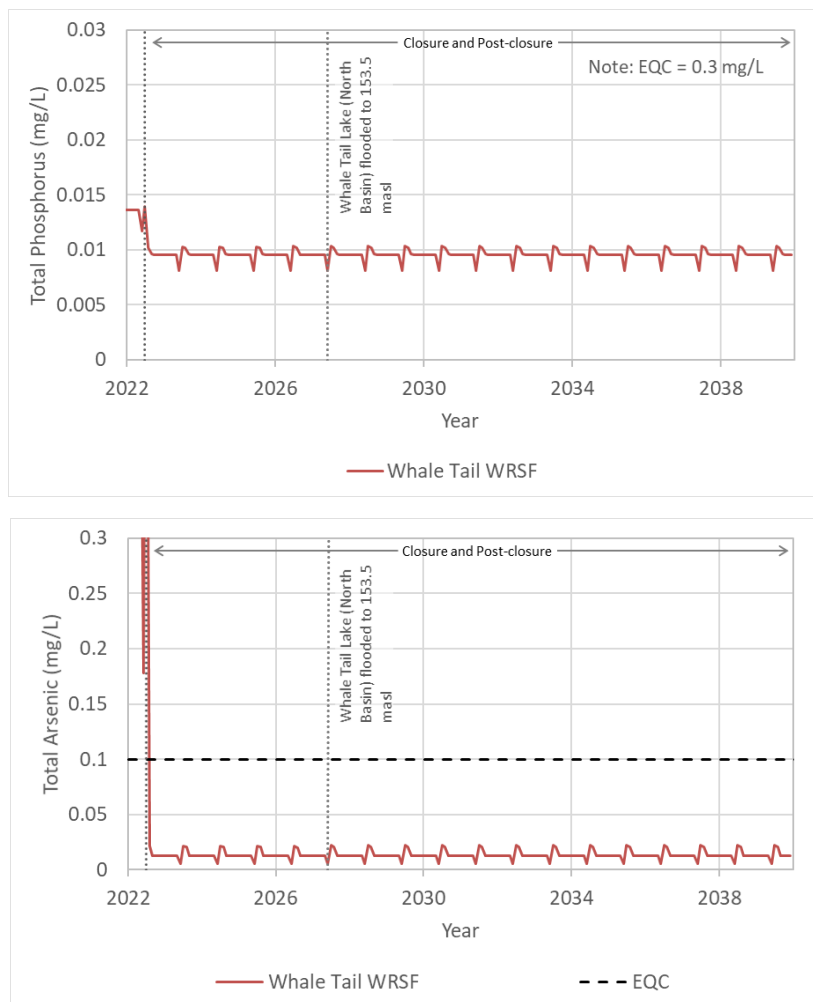


Figure 9: Projected total phosphorus (a) and total arsenic (b) concentrations for the Whale Tail WRSF pond in closure and post-closure.

Whale Tail Pit

At the start of closure, Whale Tail Pit receives a large volume of fresh water for flooding that is anticipated to input little to no loading of arsenic or any other constituent. The flooding therefore results in an improvement to water quality in the pit as it floods during closure (i.e., predictions of progressively lower constituent concentrations in the flooding lake as the pit fills).

Water quality in the Whale Tail Pit (Figure 10) is predicted to have some elevated constituent concentrations initially during flooding. This results from the comparatively large mass load from the pit benches and floors compared to the relatively small volume of water present in the pit sump at the onset of flooding. This water remains in the pit

and water quality improves with flooding inflows as the exposed pit wall surface area decreases with pumped inflows from Whale Tail (South Basin) and the contribution of natural runoff from the drainage basin. Total arsenic concentrations are predicted to decrease below the SSWQO prior to the completion of flooding and continue to decrease into post-closure. Total phosphorus concentrations are primarily controlled by the assumed concentration of TSS in the water column: prior to the completion of flooding, 15 mg/L of TSS is assumed, and total phosphorus concentrations decrease slightly through closure to approximately 0.02 mg/L. However, it is assumed that once the pit is fully flooded, the water column is deep enough that TSS will likely settle out permanently, so a resulting TSS concentration of 1 mg/L is assumed. At this point, total phosphorus concentrations in the flooded pit lake decrease below the oligotrophic threshold (0.01 mg/L) and continue decreasing through closure.

Total phosphorus and arsenic concentrations in the flooded Whale Tail Attenuation Pond show a decrease in 2026, which is due to the Whale Tail Attenuation Pond water mixing freely with the Whale Tail Pit water as the water flooding level rises past the spill elevation. All constituent concentrations are predicted to be below their receiving water quality objectives once the pit is fully flooded.

3.2.2 Receiving Environment and Downstream Lakes

During flooding of the Whale Tail Pit, all site discharges to the receiving environment cease, which are then redirected to the Whale Tail open pit until a flooded elevation of 153.5 masl is reached (predicted to occur in June 2027). Whale Tail Lake (South Basin) is drawn down to 153.5 masl and all flow through the Whale Tail Lake (South Basin) Diversion Channel to Mammoth Lake ceases. During active flooding, Mammoth Lake and all downstream lakes show an improvement in water quality, trending towards baseline conditions, since only natural runoff enters their systems. Water quality constituent concentrations progressively decrease through the downstream environment during this time (Figure 10).

Phosphorus concentrations decrease to the oligotrophic range in open water conditions within a few years after the start of closure. Under-ice concentrations decrease to oligotrophic levels in 2030, approximately 2.5 years following the complete flooding of the Whale Tail Pit to 153.5 masl. Under ice and open water total arsenic concentrations are predicted to be below the SSWQO in Mammoth Lake from the beginning of closure.

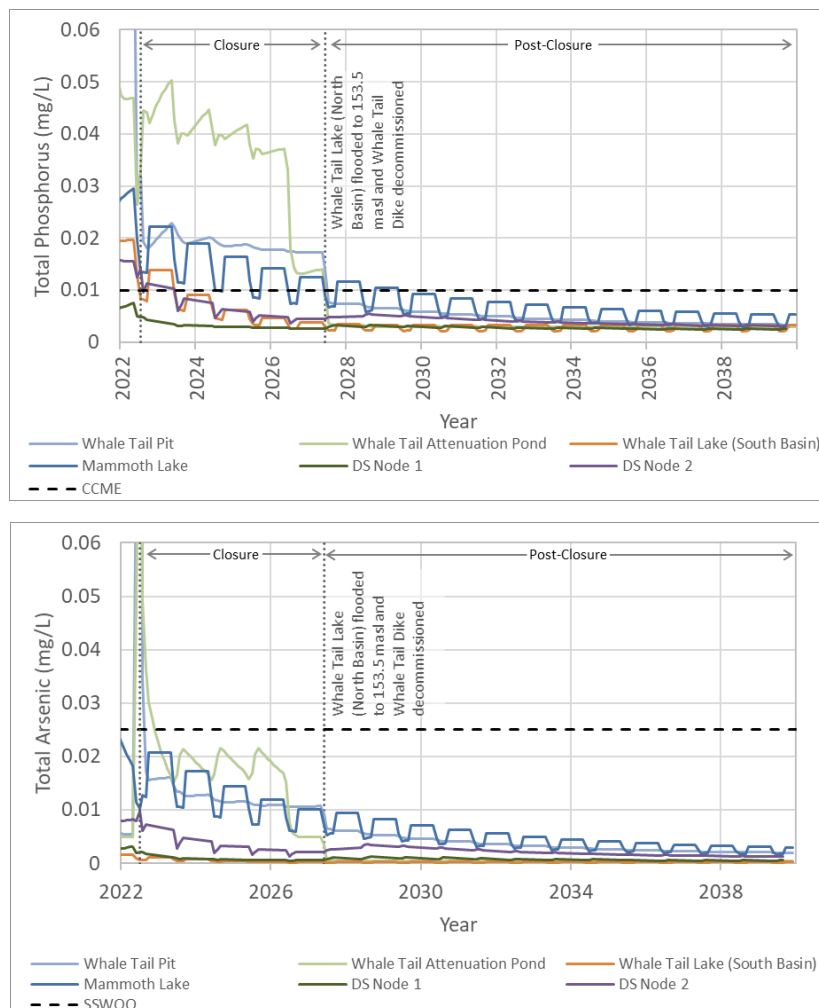


Figure 10: Projected total phosphorus (a) and total arsenic (b) concentrations for the Whale Tail Pit, the Whale Tail Attenuation Pond, and the receiving environment during closure and post-closure.

3.3 Post-Closure

Post-closure occurs when the Whale Tail Pit lake is fully flooded and water meets closure water quality objectives, which is predicted to occur prior the completion of flooding, in 2027. At that time, both the Mammoth Dike and the Whale Tail Dike are decommissioned, the Whale Tail Lake North and South Basins are reconnected, and water naturally flows over the Mammoth sill into Mammoth Lake from the Whale Tail Lake (North Basin).

Pit Lake

Concentrations of all water quality constituents throughout the pit lake are predicted to remain below receiving water quality objectives in post-closure. The Whale Tail Pit and the Whale Tail Attenuation Pond are connected at the surface and water is exchanged between them.

Downstream Water Quality

Water quality in Mammoth Lake and the downstream lakes is predicted to meet the CCME guidelines and the arsenic SSWQO in post-closure, and continue to trend downward to conditions similar to baseline.

4.0 CONCLUSIONS

The Approved Project water quality model submitted to the Nunavut Impact Review Board for impact assessment in 2016 (Agnico Eagle 2016) has been updated to include refined input parameters and assumptions related to the loadings of arsenic and phosphorus, which are the constituents of environmental interest at the site.

The updated model incorporates results from the following investigations and modifications completed since 2018:

- Hydrological assessment of the WRSF to refine runoff and seepage flow estimates
- Hydrogeological inflows to the Whale Tail Pit
- More realistic arsenic and phosphorus mass release rate from mine rock
- Waste rock phosphorus load assessment
- Updated water treatment limits for phosphorus for the STP and O-WTP based on enhanced understanding of the treatment units

These refinements and modifications show a positive effect on water quality through operations; constituent loads coming from the WRSF and the open pit, which report to the Attenuation Pond, are lower.

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. Arsenic release from the submerged Whale Tail Pit walls is anticipated once pit-flooding commences, but is expected to be a relatively short-lived source to the flooded pit lake.

5.0 CLOSURE

Should you have any questions regarding this report, please do not hesitate to contact the undersigned.

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[https://golderassociates.sharepoint.com/sites/121081/project files/5 technical work/02_wb_wq/wq/report/rev0/20136950-480-rpt-whaletail-2019annualrpt-waterquality-rev0.docx](https://golderassociates.sharepoint.com/sites/121081/project%20files/5%20technical%20work/02_wb_wq/wq/report/rev0/20136950-480-rpt-whaletail-2019annualrpt-waterquality-rev0.docx)

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APPENDIX A

Geochemical Source Terms and Water Quality Inputs

Constituents	Whale Tail Lake		Natural Runoff		Mammoth Lake		Nemo Lake		Watershed A		Shallow Groundwater
	Dissolved mg/L	Total mg/L	Dissolved mg/L	Total mg/L	Dissolved mg/L	Total mg/L	Dissolved mg/L	Total mg/L	Dissolved mg/L	Total mg/L	Dissolved mg/L
Acidity	0	0	0	0	0	0	0	0	0	0	0
Alkalinity	4.5	4.5	4.9	4.9	5.2	5.2	7.5	7.5	5.6	5.6	102
Sulphate	1.4	1.4	1.4	1.4	2.3	2.3	3.3	3.3	2.1	2.1	46
Calcium	2.1	2.1	1.8	1.7	3.1	3.1	2.3	2.3	1.9	1.9	73
Chloride	2.6	2.6	2.3	2.3	4.2	4.2	0.56	0.56	1.2	1.2	255
Fluoride	0.026	0.026	0.032	0.032	0.026	0.026	0.024	0.024	0.027	0.027	0.37
Mercury	0.000005	0.000005	0.000005	0.000005	0.0000051	0.000005	0.000005	0.000005	0.000005	0.000005	0.000005
Silver	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.000025
Aluminum	0.0053	0.011	0.019	0.17	0.0034	0.0078	0.0017	0.011	0.0037	0.012	0.04
Arsenic	0.00015	0.00017	0.00019	0.00027	0.00035	0.00039	0.00028	0.0003	0.00017	0.0002	0.003
Barium	0.0041	0.0041	0.0048	0.0045	0.0059	0.006	0.0042	0.0042	0.0055	0.0039	0.13
Beryllium	0.00002	0.00002	0.00002	0.000026	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.0001
Boron	0.01	0.01	0.01	0.01	0.010	0.010	0.010	0.010	0.01	0.01	0.46
Bismuth	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.0001
Cadmium	0.000005	0.000005	0.000005	0.000005	0.000005	0.000005	0.000005	0.0000055	0.0000052	0.0000058	0.00012
Cobalt	0.0001	0.0001	0.0001	0.00016	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0018
Chromium	0.0001	0.00011	0.0002	0.00076	0.0001	0.00012	0.0001	0.00011	0.0001	0.00011	0.0012
Copper	0.00048	0.00051	0.00069	0.00095	0.0004	0.00052	0.00026	0.0005	0.0006	0.00052	0.0039
Iron	0.015	0.023	0.058	0.32	0.010	0.016	0.010	0.012	0.012	0.035	0.05
Potassium	0.4	0.4	0.42	0.42	0.59	0.6	0.61	0.61	0.48	0.48	6.4
Lithium	0.001	0.001	0.001	0.001	0.0011	0.0011	0.001	0.001	0.001	0.001	0.018
Magnesium	0.72	0.72	0.85	0.86	0.94	0.93	1.1	1.1	0.64	0.63	30
Manganese	0.0015	0.0029	0.0021	0.005	0.0011	0.0024	0.0019	0.0037	0.00066	0.0015	0.32
Molybdenum	0.00005	0.000059	0.00005	0.000066	0.000051	0.000056	0.000052	0.000061	0.000051	0.000051	0.027
Nickel	0.00063	0.00068	0.00096	0.0013	0.00074	0.00083	0.00058	0.00063	0.00054	0.00056	0.0058
Phosphorus	0.0021	0.0024	0.0022	0.0038	0.0022	0.0025	0.002	0.003	0.0021	0.0022	0.2
Lead	0.000054	0.00007	0.000081	0.00021	0.000066	0.000074	0.00009	0.00005	0.000062	0.00008	0.001
Antimony	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.00028
Selenium	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00075
Strontium	0.014	0.014	0.011	0.011	0.02	0.02	0.0097	0.0099	0.0084	0.0087	0.62
Tin	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.00011	0.0001	0.00013	0.0001	0.0001
Thallium	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001
Uranium	0.000031	0.000037	0.000074	0.00014	0.00002	0.000024	0.00001	0.00001	0.000025	0.00003	0.0078
Vanadium	0.0005	0.0005	0.0005	0.0006	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.00053
Zinc	0.0011	0.003	0.0012	0.0031	0.001	0.003	0.0011	0.003	0.0011	0.003	0.012
Nitrate	0.0051	0.0051	0.0079	0.0079	0.0051	0.0051	0.005	0.005	0.0074	0.0074	0.13
Sodium	0.55	0.55	0.67	0.67	0.6	0.6	0.51	0.51	0.65	0.65	56
Ammonia	0.0061	0.0061	0.0055	0.0055	0.0065	0.0065	0.0051	0.0051	0.0053	0.0053	0.33

Constituents	Ore	South Greywacke (S3S)	Central Greywacke (S3C)	North Greywacke (S3N)	Chert (S10e)	Iron Formation (SE9)	Komatiite (0a)
	mg/kg/mon	mg/kg/mon	mg/kg/mon	mg/kg/mon	mg/kg/mon	mg/kg/mon	mg/kg/mon
Acidity	11	0.073	0.2	0.31	0.19	0.22	0.2
Alkalinity	5.8	1.2	4.4	2.8	6.2	3.4	3.3
Sulphate	19	1.6	22	34	34	4.1	2.1
Calcium	8.6	0.73	8.7	12	13	1.6	1.1
Chloride	6.1	0.072	0.26	0.33	0.33	0.54	0.29
Fluoride	0.064	0.0053	0.024	0.027	0.032	0.0074	0.008
Mercury	0.0000098	0.00000037	0.00000094	0.00000096	0.00000098	0.00000099	0.000001
Silver	0.000052	0.00000073	0.0000012	0.0000045	0.0000029	0.0000035	0.0000016
Aluminum	0.025	0.0022	0.0024	0.00094	0.00075	0.0017	0.0016
Arsenic	0.065	0.0021	0.0014	0.00025	0.0024	0.55	0.52
Barium	0.0067	0.0011	0.0014	0.00098	0.0025	0.0015	0.0029
Beryllium	0.000011	0.00000025	0.00000067	0.00000063	0.00000067	0.00000067	0.00000072
Boron	0.0097	0.001	0.0033	0.0038	0.0055	0.003	0.0025
Bismuth	0.000011	0.00000031	0.00000071	0.00000064	0.00000073	0.0000012	0.00000086
Cadmium	0.0000051	0.00000039	0.0000019	0.000016	0.0000047	0.00000033	0.00000056
Cobalt	0.00082	0.0000089	0.000057	0.00034	0.00021	0.000082	0.000088
Chromium	0.000069	0.0000045	0.0000037	0.00001	0.0000063	0.000013	0.000021
Copper	0.00091	0.000025	0.000055	0.0001	0.000033	0.000042	0.000081
Iron	0.24	0.00029	0.0010	0.00081	0.0011	0.00083	0.0014
Potassium	3.7	0.54	3.6	2.5	4.7	2.2	1.7
Lithium	0.0014	0.00015	0.00045	0.00059	0.00052	0.00032	0.00031
Magnesium	1.0	0.14	0.65	1.8	1.2	0.49	0.48
Manganese	0.089	0.00042	0.0097	0.13	0.049	0.0017	0.001
Molybdenum	0.0013	0.0002	0.00068	0.00011	0.0003	0.00014	0.00017
Nickel	0.031	0.00004	0.00025	0.0013	0.0017	0.0024	0.0012
Phosphorus	0.0048	0.00017	0.00038	0.00039	0.00038	0.00048	0.0004
Lead	0.000032	0.0000047	0.0000033	0.0000065	0.0000036	0.000002	0.000004
Antimony	0.0017	0.000082	0.00026	0.00012	0.00028	0.0083	0.0046
Selenium	0.00017	0.000031	0.00017	0.00026	0.00014	0.000054	0.000085
Strontium	0.022	0.0046	0.017	0.023	0.038	0.0095	0.011
Tin	0.00013	0.000012	0.00018	0.000046	0.000016	0.0000046	0.0000075
Thallium	0.000028	0.0000013	0.0000011	0.000002	0.0000014	0.0000013	0.0000045
Uranium	0.00004	0.00023	0.00078	0.00039	0.0003	0.000034	0.000081
Vanadium	0.00026	0.000074	0.000016	0.0000068	0.0000083	0.00067	0.0011
Zinc	0.002	0.000079	0.00019	0.00047	0.00025	0.00019	0.00019
Nitrate	0	0	0	0	0	0	0
Sodium	1.1	0.064	1.0	0.53	2.1	0.39	0.18
Ammonia	0	0	0	0	0	0	0

Constituents	Komatiite (0b)	Basalt (1b)	Diorite (8b)	Gabbro (I3)	Overburden	Lake Sediment	Developed Area and Cover Material	Esker Material
	mg/kg/mon	mg/kg/mon	mg/kg/mon	mg/kg/mon	mg/kg/mon	mg/kg/yr	mg/kg/mon	mg/kg/mon
Acidity	0.19	0.19	2.0	0.19	0	0	0	0
Alkalinity	3.8	3.9	3.2	3.9	65	254	0.4	112
Sulphate	3.2	2.3	1.8	2.3	4.1	170	1.6	8.0
Calcium	1.3	1.2	1.1	1.2	2.1	35	1.6	2.8
Chloride	0.27	0.19	0.98	0.19	7.1	15	0.79	0
Fluoride	0.0098	0.018	0.059	0.018	0.89	1.6	0.23	0
Mercury	0.00000092	0.00000091	0.00000098	0.00000091	0.000058	0.00004	0.015	0.00004
Silver	0.0000025	0.0000022	0.0000028	0.0000022	0.000042	0.00024	0.000002	0.00015
Aluminum	0.0038	0.0028	0.039	0.0028	2.6	2.5	0.000011	3.4
Arsenic	0.13	0.068	0.0048	0.068	0.014	0.7	0.0087	0.009
Barium	0.0038	0.0094	0.0023	0.0094	0.033	0.48	0.0026	0.029
Beryllium	0.00000064	0.00000064	0.00000069	0.00000064	0.00017	0.00015	0.0013	0.000074
Boron	0.0013	0.0014	0.0017	0.0014	0.16	2.2	0.000014	1.5
Bismuth	0.00000071	0.00000065	0.00000069	0.00000065	0.000063	0.00014	0.0011	0.00003
Cadmium	0.00000048	0.00000066	0.00000031	0.00000066	0.000022	0.00054	0.000014	0.000043
Cobalt	0.000062	0.000049	0.00015	0.000049	0.0028	0.041	0.00000086	0.004
Chromium	0.000017	0.000036	0.000029	0.000036	0.01	0.019	0.000034	0.015
Copper	0.000045	0.00012	0.00021	0.00012	0.015	0.05	0.0000088	0.011
Iron	0.00082	0.001	0.0074	0.001	2.9	6.5	0.00058	2.5
Potassium	2.0	2.0	1.0	2.0	2.0	8.5	0.0015	5.4
Lithium	0.00051	0.00075	0.00063	0.00075	0.0048	0.019	0.63	0.003
Magnesium	0.59	0.54	0.13	0.54	1.2	7.1	0.00023	1.6
Manganese	0.0015	0.0013	0.0048	0.0013	0.069	12	0.14	0.15
Molybdenum	0.00043	0.00051	0.0013	0.00051	0.0014	0.0014	0.0012	0.0026
Nickel	0.00057	0.00041	0.0003	0.00041	0.0096	0.48	0.00039	0.0092
Phosphorus	0.0004	0.0018	0.00058	0.0018	0.13	0.77	0.000085	0
Lead	0.0000042	0.000016	0.000021	0.000016	0.0024	0.014	0.00024	0.0039
Antimony	0.0006	0.00043	0.00038	0.00043	0.0017	0.0077	0.0000075	0.0031
Selenium	0.00012	0.00061	0.000075	0.00061	0.00063	0.0048	0.00013	0.004
Strontium	0.011	0.019	0.0031	0.019	0.011	0.18	0.000039	0.0067
Tin	0.000014	0.000024	0.00011	0.000024	0.00021	0.00099	0.0043	0.00017
Thallium	0.000005	0.000004	0.0000052	0.000004	0.000021	0.000073	0.000028	0.000046
Uranium	0.00029	0.00032	0.00043	0.00032	0.0024	0.0027	0.000002	0.0005
Vanadium	0.00076	0.0018	0.00052	0.0018	0.0047	0.0039	0.00027	0.0054
Zinc	0.00018	0.00018	0.002	0.00018	0.0086	0.027	0.00015	0.011
Nitrate	0	0	0	0	0	2.4	0.00041	0
Sodium	0.17	0.18	0.1	0.18	35	148	0	39
Ammonia	0	0	0	0	0	0	0.071	0

APPENDIX B

Mass Balance Inputs and Assumptions

1.0 WHALE TAIL WRSF PROPORTIONS, FACILITY FOOTPRINTS AND 3D AREAS, AND PIT WALL PROPORTIONS

Table B-1: Whale Tail WRSF Proportions (%)¹

Date	Gabbro (I3)	Chert (S10) ²	Greywacke North (S3N)	Central Greywacke (S3C)	Iron Formation (SE9)	Ultramafic (0b)	Ultramafic (0a) ³	Basalt (1b)	Overburden
Jan 2020	0	12	13	6.6	16	20	11	8.6	13
Feb 2020	0	11	13	6.6	16	20	11	8.6	15
Mar 2020	0	13	15	7.6	18	23	12	9.9	0.65
Apr 2020	0	10	13	6.5	15	20	10	8.4	17
May 2020	0	12	13	6.8	16	21	11	8.8	12
Jun 2020	0	8.7	14	7.2	16	22	11	9.3	11
Jul 2020	0	11	15	7.8	18	24	12	10	1.8
Aug 2020	0	12	15	7.8	18	24	12	10	0.46
Sep 2020	0	10.0	16	8.0	18	25	13	10	0
Oct 2020	0	12	15	7.8	18	24	12	10	0
Nov 2020	0	6.6	16	8.4	19	26	13	11	0
Dec 2020	0	13	15	7.7	18	24	12	10	0
Jan 2021	0	7.1	16	8.4	19	26	13	11	0
Feb 2021	0	10	16	8.0	18	25	13	10	0
Mar 2021	0	7.0	16	8.4	19	26	13	11	0
Apr 2021	0	9.0	16	8.2	19	25	13	11	0
May 2021	0	7.7	16	8.3	19	25	13	11	0
Jun 2021	0	10.0	16	8.0	19	25	13	10	0
Jul 2021	0	9.8	16	8.1	19	25	13	10	0
Aug 2021	0	8.9	16	8.2	19	25	13	11	0
Sep 2021	0	7.2	16	8.4	19	26	13	11	0
Oct 2021	0	5.2	17	8.6	19	26	13	11	0
Nov 2021	0	2.0	17	8.9	19	27	13	12	0
Dec 2021	0	0	18	9.2	20	28	13	12	0
Jan 2022	0	5.4	17	8.6	19	26	13	11	0
Apr 2022	0	3.4	17	8.8	19	27	13	11	0
Jul 2022	0	2.1	17	8.9	19	27	13	12	0

Notes:

1. Proportions applied to PAG and/or moderate to high arsenic leachability waste stockpile within the Whale Tail WRSF.
2. Includes Chert Central (S10C) and Chert zone R (S10R)
3. Includes Non-Defined Waste

Table B-2: Footprint areas (m²) for the Whale Tail WRSF, Marginal Ore Pile, and NPAG/NML Stockpile

Year	Whale Tail WRSF	Marginal Ore Pile	NPAG/NML Stockpile
2018	108,388	0	0
2019	478,000	23,580	0
2020	797,350	39,650	69,900
2021	807,500	56,500	69,900
2022	807,500	68,200	160,440

Table B-3: 3D surface areas (m²) for the Whale Tail WRSF, Marginal Ore Pile, and NPAG/NML Stockpile

Year	Whale Tail WRSF	Marginal Ore Pile	NPAG/NML Stockpile
2018	112,637	0	0
2019	507,278	24,625	0
2020	784,849	99,480	76,830
2021	804,763	99,485	76,830
2022	821,767	101,977	175,041

Table B-4: Exposed pit wall proportions (%) by lithology for Whale Tail Pit

Lithology / Material Type	Whale Tail Pit
Gabbro (I3)	0
Chert (S10) ¹	13
Greywacke North (S3N)	17
Central Greywacke (S3C)	5.9
Iron Formation (SE9)	14
Ultramafic (0b)	18
Ultramafic (0a) ²	9.7
Basalt (1b)	7.7
Overburden ³	0
Diorite (8b)	2.5
South Greywacke (S3S)	12

Notes:

1. Includes Chert Central (S10C) and Chert zone R (S10R)
2. Includes Non-Defined Waste
3. In the pit wall, the overburden is pushed back from the pit wall and does not contribute chemical load to the runoff flowing into the Whale Tail Pit.

2.0 LOADING RATES AND CONCENTRATIONS

2.1 Exposed rock in pit walls, WRSFs, pads, stockpiles

Table B-5 through Table B-10 summarizes the water quality related input parameters used in the water quality model. Loading rates are calculated for waste rock (based on large column leaching tests¹), ore (based on humidity cell tests [HCT] leach), and overburden, esker material, and lakebed sediments (based on shake flask extraction [SFE] leach test results). All leach tests (large columns, HCTs, SFE) are described in the Geochemistry Report (Golder 2018b). Loading rates and concentrations (Appendix A) were normalized and adjusted to field conditions in the model, and further scaling factors were applied as per Table B-5.

The weekly analytical results were used to calculate an average weekly leaching rate per unit mass for each constituent and each leaching cell or column as reported in the Geochemistry Report. Laboratory leaching rates are more aggressive than what would be observed in the field. This is usually a function of two factors:

- 1) The higher liquid to solid ratios used in testing compared to much drier site conditions maximizes the amount of material that interacts with the liquid; and
- 2) Laboratory tests carried out at room temperature accelerates oxidation rates. Laboratory temperature is not representative of colder temperature at the project site, which will slow the oxidation rates based on chemical principles and is documented at other northern sites (Davé and Clulow 1996; Davé and Blanchette 1999).

The laboratory-derived leaching rates were applied as a monthly loading rate in the model in consideration of the drier climate at site where much less precipitation falls on a unit surface area than in the laboratory leaching column. One weekly leaching cycle in the laboratory represents the volume of water that is received in 2 to 3 months of exposure in the pile for the same unit surface area². The laboratory leaching rate is repeated 4 times in one month; therefore, time in the laboratory test does not correspond to mine waste exposure time in the field. Based on the liquid to solid ratio of one laboratory leaching cycle relative to the monthly average precipitation, the chemical load associated with one laboratory leaching cycle was conservatively assumed to represent the load released from one month of precipitation in the field. Loading rates were calculated from the large column leachate water quality data as follows:

$$\text{Loading Rate} \left(\frac{\text{mg}}{\text{kg week}} \right) = \text{average of weekly rate, as: } \frac{\left(\text{concentration} \left(\frac{\text{mg}}{\text{L}} \right) \times \text{leachate volume (L)} \right)}{\left(\text{mass of charge material (kg)} \right)}$$

As Whale Tail Pit become flooded, mass is expected to be released from the pit benches and pit floors under water. This process results from the mobilisation of sulphur salts created upon exposure of the rock to air prior to flooding. Submergence is expected to stop oxidation but will allow salts to dissolve. Thus, the amount of salts available to be released from of the pit benches and floors will be a finite source. To capture the effects on water quality of the slow release of these stored salts, a finite release of mass from the pit benches and floors was applied in the model (Golder 2018a). Following the depletion of the mass due to remobilisation into the flooded pits, mass release from the pit benches and floors was assumed to be driven by equilibrium processes with groundwater concentrations.

Mass release rates from the submerged pit benches and floors were derived from diffusion modeling described in Golder (2018a). A mass release rate was estimated for all lithologies; however, only the komatiite, iron formation,

¹ With the exception of the diorite unit, which is based on humidity cell test results

² Based on an average climate year, total precipitations (rain and snow) for frost-free months of June to September when rock storage facility contact water may be released. This applies to the surface area of all mine wastes: rock storage facilities, pads and stockpiles.

and greywacke rocks provide mass release upon submersion; all other lithologies provide negligible mass release upon submersion.

2.2 Overburden, Esker Material, and Exposed Lakebed Sediment

No kinetic leaching tests were carried out on overburden, esker material, or lakebed sediments. To calculate average leaching rates per unit mass of material, SFE static leaching test results were used as described in the Geochemistry Report. SFE static leaching tests are more aggressive than leaching rates in the field, as material is shaken for 24 hours in water with a liquid to solid ratio of 4:1. This results in a higher release of constituents per unit mass of testing material than would be observed in the field. Loading rates were calculated from the SFE data as follows:

$$\text{Loading Rate (mg/kg)} = \{((\text{concentration (mg/L)} \times \text{leachate volume (L)})) / ((\text{mass of charge material (kg)}))\}$$

Overburden and esker material will be piled and exposed to precipitation. As such, a conservative approach of applying the loading rates on a monthly basis was used. Scaling factors were applied as per Table B-5 and Table B-9.

A different approach was used for the lakebed sediment, as they will remain *in situ* and undisturbed. According to the annual net runoff depth per unit area used in the model, and under the assumption of a 5 cm interaction depth of lakebed sediments, the liquid to solid ratio for lakebed sediments on site is calculated to be approximately 2:1. When considering the entire volume of natural runoff within the catchment plus runoff over the exposed lakebed sediments, this ratio becomes approximately 4:1, which is consistent with the water to rock ratio of the SFE test. Therefore, the average loading rate was assumed to be released on an annual basis, and reports to runoff, which occurs entirely between June and September. Scaling factors were applied as per Table B-9.

3.0 MASS BALANCE INPUTS AND ASSUMPTIONS

Table B-5: General Site Water Quality and Chemical Loading Rate Input and Assumptions

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
Natural watershed on-site	Non-contact water quality input	Input as a concentration Average water quality of Watershed A tributaries upstream of Mammoth Lake (2014 through 2016)	Monitored results in the regional baseline water quality studies are considered analogous to natural runoff water quality of the area	Baseline data: Azimuth 2016 Details: Golder 2020a, Appendix A Input: Appendix A	X	X	X
Developed areas / constructed pads	Developed areas loading rate input	Input as a loading rate. Weighted average load of greywacke (S3S) and intermediate intrusive (8b) mixed based on total proportion (Appendix C). Loading rate is calculated as needed by additional factors according to facility.	Segregation of these lithologies will occur to allow use of NPAG/NML material for construction and WRSF cover requirements.	Golder 2018b; Appendix A, Appendix C	X	X	X
	Developed areas interaction depth	2 m interaction depth is used for calculation loadings for developed area runoff.	Pad thickness provided by Agnico Eagle (SNC)	Pad thickness provided by Agnico Eagle	X	X	
	Rock density	2 tonnes/m ³ applied to all stockpiled rock material where applicable to calculate loading rates	"Loose Density" of Whale Tail WRSF	Design Criteria for Geotechnical and Water Management Infrastructure,	X	X	
	Site channelization factor for developed areas	Factor of 0.3 applied to loading	Represents the effect of channelling compared to laboratory leaching conditions: movement or flow of mass through the constructed pads with an assumed 30% contact of water with grains	Kempton (2012); and Beddoes et al. (2013)	X	X	
	Seasonal load multiplier	June through September = 1 October through May = 0	Release of load in summer, no accumulation or release of load during winter due to frozen conditions within the active thaw depth.		X	X	

Table B-5: General Site Water Quality and Chemical Loading Rate Input and Assumptions

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
	Runoff in post-closure	Represented by non-contact runoff water quality	Developed Areas are removed by the time flooding is complete in closure.	Golder 2018c			X
All water surfaces	Direct precipitation	Input as a concentration Assumed pristine water (0 mg/L for all constituents)	Direct precipitation is not anticipated to provide any significant mass contributions	n.a.	X	X	X
Pit sumps and water management ponds	Solubility limits	Solubility limits were applied for iron and aluminum	PhreeqC model was run for various modelled water qualities to investigate solubility limits	Appendix B, Section 4.1	X	X	X
Groundwater regime	Shallow groundwater quality input	Input as a concentration Based on 75th percentile of Meadowbank groundwater quality	No shallow groundwater data from Whale Tail Pit; this source term was used for groundwater from Approved Project FEIS model.	Knight Piésold, 2015	X	X	

Table B-6: Water Quality and Chemical Loading Rate Input and Assumptions for the WRSFs, Ore Stockpiles, Construction Material Stockpiles, and NPAG/NML Stockpile

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
■ Whale Tail WRSF ■ Ore stockpiles ■ Construction material stockpiles ■ NPAG/NML stockpile	Temperature effect on reaction rates	Waste rock and overburden loading rates are multiplied by: ■ 0.5 for July and August ■ 0.25 for June and September ■ 0 for October to May	Loading rates are halved for every 10°C decrease in temperature from 25°C, based on monthly average temperatures. Factor is 0 in winter months as average monthly temperatures are below 0°C	Diavik (1998); Davé and Clulow (1996); Davé and Blanchette (1999)	X	X	X
	Seasonal load multiplier	June through September = 1 October through May = 0	Release of load in summer, no accumulation or release of load during winter due to frozen conditions within the active thaw depth and fast burial of waste rock (the rate of rise of the WRSFs exceed the active thaw depth).		X	X	X
	Grain size factor	Grain size factor of 0.3 applied to loading rate for both the runoff and seepage.	Represents the effect of grain size compared to laboratory leaching condition: the percentage of rock with grain size small enough that its surface contributes to the mass load.	Kempton (2012); and Beddoes et al. (2013)	X	X	X
	Rock density	2 tonnes/m ³ applied to all stockpiled rock material where applicable to calculate loading rates	"Loose Density" of Whale Tail WRSF	Design Criteria for Geotechnical and Water Management Infrastructure	X	X	X
Whale Tail WRSF	Contact runoff chemistry	Weighted average load from overburden and waste rock types based on the tonnage reporting to the WRSF (does not include material used in construction).	Represents material not covered through progressive covering, and consists of ARD and/or ML waste rock and overburden.	Golder 2018b	X		
		WRSF is assumed to freeze annually and remain frozen, such that loadings are based only on the runoff interaction depth, and not the tonnage of the entire storage facility.	Waste rock is placed year-round; however, rock that is in place in the winter becomes frozen and subsequently covered, and is not available to interact with water come the following spring and summer.	Golder 2018e	X		

Table B-6: Water Quality and Chemical Loading Rate Input and Assumptions for the WRSFs, Ore Stockpiles, Construction Material Stockpiles, and NPAG/NML Stockpile

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
Whale Tail WRSF	Residual explosives in WRSFs	Applied concentrations for nitrate and ammonia in operations for WRSF runoff flows: ■ NO ₃ : 12 mg/L-N ■ NH ₄ : 0.3 mg/L-N	Average of monitoring values observed in operating open pits at the Meadowbank Mine.	Meadowbank Mine water quality monitoring data from Agnico Eagle on NWB website	X		
		Applied concentrations for nitrate and ammonia in closure and post-closure for WRSF runoff and seepage flows: ■ NO ₃ : 0.02 mg/L-N ■ NH ₄ : 0.01 mg/L-N	Average of monitoring values observed in operating open pits at the Meadowbank Mine. Reduced values are used for closure and post-closure to account for decreasing residual explosive content once operations cease.	Meadowbank Mine water quality monitoring data from Agnico Eagle on NWB website		X	X
	Runoff interaction depth	0.3m	Thickness of the layer through which runoff will flow and contact soil particles. Mass loading in runoff is calculated based on tonnage present in this depth and over the 3D area of not yet covered by cover material in the waste rock in the piles.	Appendix E of Golder 2019c	X	X	X
	WRSF cover chemistry	Uses the developed area loading input; same rock types used (South Greywacke and Diorite)	Waste rock of these lithologies will be segregated for use as WRSF cover material and for construction use	Golder 2018b	X	X	X
	Progressive cover of WRSFs	Progressive cover percentages as per the hydrological WRSF modeling results	Cover is placed progressively through mine life and WRSFs will be entirely covered prior to the first spring thaw of closure.	Appendix E of Golder 2019c	X	X	
	Flow of seepage from cover/active layer	Seepage is not accounted for.	Modelled seepage during operations is considered negligible and is not predicted to occur in closure or post-closure.	Appendix E of Golder 2019c	X	X	X
Ore stockpile	Contact runoff chemistry	Loading rate based on quarterly (2018 through 2020) and annual (2021 through 2025) ore tonnage	Average load from composite humidity cell test sample of ore.	Golder 2018b	X		

Table B-6: Water Quality and Chemical Loading Rate Input and Assumptions for the WRSFs, Ore Stockpiles, Construction Material Stockpiles, and NPAG/NML Stockpile

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
Ore stockpile		Ore stockpiles are assumed not to freeze during the winter months	Contents are expected to be continually consumed and refreshed	Agnico Eagle 2020b	X		
	Runoff in closure	Represented by developed area loadings	Ore stockpile and clean material pile are removed from pad. Pad remains in place.	Golder 2018b		X	
	Runoff in post-closure	Represented by non-contact runoff water quality	Stockpile pads are removed	Golder 2018c			X
Clean material stockpile	Contact runoff chemistry	Average load from SFE leach results for esker samples; applied to the full quantity of esker material stockpile.	Being a rolling stockpile, it is assumed to not freeze at the core.	Golder 2018b	X		
		Consistent 100,000 m ³ clean construction material (esker) tonnage used to determine loading rate	Mass contribution to chemical load based on an anticipated tonnage	Agnico Eagle	X		
	Runoff in closure and post-closure	Represented by non-contact runoff water quality	Stockpile pads are removed	Golder 2018b		X	X
NPAG/NML stockpile	Contact runoff chemistry	Represented by developed area loadings	Waste rock of these lithologies will be segregated for use as WRSF cover material.	Golder 2018b	X		
		WRSFs are assumed to freeze annually and remain frozen, such that loadings are based only on the runoff interaction depth, and not the tonnage of the entire storage facility.	Waste rock is placed year-round; however, rock that is in place in the winter becomes frozen and subsequently covered, and is not available to interact with water come the following spring and summer.		X		
	Runoff interaction depth	0.3 m	Thickness of the layer through which runoff will flow and contact soil particles. Mass loading in runoff is calculated based on tonnage present in this depth and over the 3D area the waste rock in the pile.	Appendix E of Golder 2019c Rock pile surface by Agnico Eagle	X		
	Runoff in closure and post-closure	Represented by non-contact runoff water quality	Stockpile pads are removed	Azimuth 2016		X	X

Table B-7: Inputs and Assumptions for the Whale Tail and IVR Pits

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
Whale Tail Pit	Temperature control	Pit lake diffusion and submerged loading rates are multiplied by 0.25 year-round	Assumes temperature of water at depth in contact with pit benches and floors is 5°C all year (does not freeze but is not affected by warming surface temperatures)	Diavik (1998); Davé and Clulow (1996); Davé and Blanchette (1999)		X	X
	Seasonal load multiplier	June through September = 1 October through May = 0	Release of load in summer, no accumulation or release of load during winter due to frozen conditions		X	X	X
	Interaction Depth of Pit Walls	1 m on pit benches and floors	Represents the depth of penetration of blasting-induced fractures on horizontal benches of the pit. This volume of rock is conservatively assumed to be fragmented (have the porosity) as waste rock in consideration of the rubble that will remain on pit benches. In reality, pit benches and floors are expected to be largely free of loose fragments for pit wall stability (as at Meadowbank).	Siskind and Fumanti (1974)	X	X	X
	Pit bench channelization factor	Factor of 0.3 applied to loading from pit benches and floors	Represents the effect of channelling compared to laboratory leaching conditions: movement or flow of mass through the pit benches with an assumed 30% contact of water with rock fragments	Kempton (2012); and Beddoes et al. (2013)	X	X	X
	Source of drilling fluids	Whale Tail Lake (South Basin) water quality as modelled until September 2019, after which it is the average of baseline Nemo Lake water quality data	Described in mine plan	Golder 2020a	X		

Table B-7: Inputs and Assumptions for the Whale Tail and IVR Pits

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
Whale Tail Pit	Exposed pit wall runoff chemistry	Weighted average load from exposed rock types based on their expected proportion over exposed pit benches and floors that are not submerged: ■ Full pit during operation ■ Portion of pit benches not flooded at closure and post-closure, i.e., pit benches above elevation 153.5 meters). ■ Portion of pit benches not flooded or otherwise covered at post-closure	Assumed to stop once the pit benches and floors are submerged due to flooding, as sulfide oxidation is assumed to be arrested by submergence.	Golder 2018b and Golder 2018a	X	X	X
	Flooding pit bench chemistry	Loading rate associated with one-time mass released from the pit benches and floors upon submersion during pit flooding.	Sulfide oxidation products that formed and accumulated while pit benches and floors are exposed are re-dissolved as the walls become submerged.	Golder 2018b		X	
	Submerged pit bench and floor mass release	Mass release rate from submerged pit floors and benches .	Mass addition through release of built of oxidation products from exposed komatiite, iron formation, and greywacke rock in the submerged pit floors and benches that continue until the available mass is depleted. A minimal mass release, that is a function of pit water quality equilibration with groundwater quality continues in perpetuity.	Golder 2018a		X	X
	Residual explosives in pit sumps	Applied concentrations for nitrate and ammonia in operations: ■ NO₃: 12 mg/L-N ■ NH₄: 0.3 mg/L-N	Average of monitoring values observed in operating open pits at the Meadowbank Mine. No applied concentrations in closure and post-closure as pits will be reflective of the chemistry of filling sources.	Meadowbank Mine water quality monitoring data from Agnico Eagle on NWB website	X		

Table B-7: Inputs and Assumptions for the Whale Tail and IVR Pits

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
	Groundwater inflow chemistry	Regional groundwater entering the pit is assumed to be represented by the shallow water quality, combined with both the Whale Tail Attenuation Pond and Whale Tail Lake (South Basin) water quality, as modelled.	Hydrogeological modeling shows that the regional groundwater entering the pit does so in the top 40 m of fractured bedrock. Hydrogeological modeling provides the breakdown of contributions from regional groundwater, the Whale Tail Attenuation Pond, and the Whale Tail Lake (South Basin).	Golder 2018d	X	X	
Flooded Whale Tail Pit	Stratification and turnover events	Fully mixed pit lakes up to an elevation of 153.5 masl in post-closure	Hydrodynamic modeling shows that the pits develop weak temperature-induced stratifications in the summer and under ice but turn over twice a year immediately before ice formation and during freshet. This indicates that generally the pits are well mixed.	Golder 2019e		X	X
	Cryo-concentration	Not considered	Ice formation considered only in the receiving environment (i.e., Mammoth Lake and Whale Tail Lake (South Basin). Due to the large volume of the flooded pit in post-closure, ice formation is not likely to appreciably change water quality in winter.		X	X	X

Table B-8: Inputs and Assumptions for the Underground Mine and Saline Water Management Facilities

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
Underground ramp *Note: this source term is only applicable while GSP-1 is collecting contact water in 2019. It is thereafter considered to be outside of the model bounds.	At-surface catchment area runoff water quality	Developed area runoff water quality	Catchment area is primarily pad area.	Golder 2018c	X	X	
		Natural runoff water quality	Pads are removed	Azimuth 2016			X
	Underground ramp runoff contact water chemistry	Average loading from humidity cell test data for intermediate intrusive (8b).	Intermediate intrusive (8b) is the predominant rock type in ramp.	Golder 2018b	X		
	Developed areas interaction depth applied to at-surface catchment loadings and underground ramp loadings	2 m interaction depth is used for calculation loadings for developed area runoff.	Pad thickness provided by Agnico Eagle	Pad thickness provided by Agnico Eagle	X	X	
	Rock density applied to at-surface catchment loadings and underground ramp loadings	2 tonnes/m ³ applied to all loose rock material where applicable to calculate loading rates	"Loose Density" of Whale Tail WRSF	Design Criteria for Geotechnical and Water Management Infrastructure	X	X	
	Site channelization factor	Factor of 0.3 applied to loading	Represents the effect of channelling compared to laboratory leaching conditions: movement or flow of mass through the constructed pads with an assumed 30% contact of water with grains	Kempton (2012); and Beddoes et al. (2013)	X	X	
	Temperature effect on ramp rock	■ 0.5 for July and August ■ 0.25 for June and September ■ 0 for October to May	Loading rates are halved for every 10°C decrease in temperature from 25°C, based on monthly average temperatures. Factor is 0 in winter months as average monthly temperatures are below 0°C	Diavik (1998); Davé and Clulow (1996); Davé and Blanchette (1999)	X	X	X

Table B-8: Inputs and Assumptions for the Underground Mine and Saline Water Management Facilities

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
	Seasonal load multiplier	June through September = 1 October through May = 0	Release of load in summer, no accumulation or release of load during winter due to frozen conditions within the active thaw depth.		X	X	

Table B-9: Inputs and Assumptions for Water Treatment Plants

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
All water treatment plants	Effluent water quality	Assumes site effluent water guidelines are met at the point of discharge.	Effluent must adhere to discharge limits.	NWB 2018	X		
Sewage Treatment Plant (STP)	Control on concentrations of phosphorus and nitrate as nitrogen	Applied concentrations of phosphorus and nitrate: ■ P: 0.5 mg/L ■ NO ₃ : 5 mg/L-N	Expected concentrations of nutrients (phosphorus, nitrate as nitrogen) based on information provided from the Meadowbank Mine, further refined by Agnico Eagle for lower sewage water treatment plant effluent limits	Agnico Eagle 2019c	X	X	
O-WTP	Control on concentrations of phosphorus, arsenic, and TSS	Applied concentrations of phosphorus and arsenic: ■ P: 0.05 mg/L ■ As: 0.1 mg/L Applied concentrations of TSS: ■ Total concentrations are calculated using a particulate fraction from TSS load in addition to dissolved fraction load. ■ Operations: effluent is assumed to contain 7.5 mg/L TSS through the summer months and 15 mg/L TSS through the winter months	Effluent must adhere to discharge limits.	NWB 2018; Agnico Eagle 2018d	X		
	Effluent water quality	Water quality is modelled and carries forward the maximum of either the modelled concentration or the effluent quality criteria.	Effluent must adhere to discharge limits.	NWB 2018	X		
	Sludge produced from treatment	Sludge from O-WTP disposed of in the Whale Tail WRSF. Its effect on WRSF water quality is not accounted for.	Minor amounts mixed with waste rock will not supply a notable additional load to water quality. Sludge will be frozen, located under the WRSF cover at closure and post-closure; not contact with water	Agnico Eagle 2018a	X		

Table B-10: Inputs and Assumptions for Other Loadings Sources

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
Attenuation Pond Exposed Lakebed Sediments	Runoff over lakebed sediments	Input as a loading. Assumed to be the loading rate equivalent to one full year of precipitation but released entirely over the open water season (June through September, a total of 122 days).	Whale Tail Lake (North Basin) dewatering will expose lakebed sediment area. Lakebeds will be submerged once Whale Tail Lake (North Basin) is full in closure. Water-rock ratios of the geochemical testing (SFE tests) indicates that applying the loading as an annual rate is conservative, based on the average annual precipitation (Appendix B, Section 2.2).	Appendix A	X	X	
	Interaction depth of runoff water on lakebed sediments	5 cm	Geochemical testing done on 5 cm of material. Lakebed sediments consist of silty clays that are hard packed and will provide a relatively impermeable surface.		X		
	Density of lakebed sediments	1.5 g/cm ³	Lakebed sediments consist primarily of silty clay.	USDA estimate of moist bulk density by texture (USDA, 2019)	X		
	Temperature effect	■ 0.5 for July and August ■ 0.25 for June and September ■ 0 for October to May	Loading rates are halved for every 10°C decrease in temperature from 25°C, based on monthly average temperatures. Factor is 0 in winter months as average monthly temperatures are below 0°C	Diavik (1998); Davé and Clulow (1996); Davé and Blanchette (1999)	X		
Attenuation Pond Natural Runoff	Runoff from natural watershed areas	If lakebed sediments are exposed, assumed to not contain mass as it will acquire mass from lakebed sediments. If lakebed sediments are not exposed, it is represented by natural runoff water quality.	The runoff flow from the natural areas will flow over the exposed lakebed sediments and acquire mass. This is anticipated to be a greater mass than natural runoff water quality.	Appendix A	X	X	X

Table B-10: Inputs and Assumptions for Other Loadings Sources

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
Landfarm	Runoff over landfarm material	Represented by developed area loading values	Landfarm will consist primarily of NPAG/NML material	Appendix A	X	X	
	Density of landfarm material	2 tonnes/m ³ applied to calculate loading rates	"Loose Density" of Whale Tail WRSF	Design Criteria for Geotechnical and Water Management Infrastructure	X	X	
	Interaction depth of landfarm material	2 m interaction depth is used for calculation loadings for developed area runoff.	Pad thickness provided by Agnico Eagle	Pad thickness provided by Agnico Eagle	X	X	
	Temperature effect	Waste rock and overburden loading rates are multiplied by: ■ 0.5 for July and August ■ 0.25 for June and September ■ 0 for October to May	Loading rates are halved for every 10°C decrease in temperature from 25°C, based on monthly average temperatures. Factor is 0 in winter months as average monthly temperatures are below 0°C	Diavik (1998); Davé and Clulow (1996); Davé and Blanchette (1999)	X	X	
	Seasonal load multiplier	June through September = 1 October through May = 0	Release of load in summer, no accumulation or release of load during winter due to frozen conditions within the active thaw depth and fast burial of waste rock (the rate of rise of the WRSFs exceed the active thaw depth).		X	X	
	Site channelization factor	Factor of 0.3 applied to loading	Represents the effect of channelling compared to laboratory leaching conditions: movement or flow of mass through the constructed pads with an assumed 30% contact of water with grains	Kempton (2012); and Beddoes et al. (2013)	X	X	
	Runoff over landfarm area in closure/post-closure	Represented by natural runoff water quality as of July 2027	Material is assumed to be removed by 2027	Agnico Eagle 2019b		X	X

Table B-10: Inputs and Assumptions for Other Loadings Sources

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
Industrial Sector / Main Camp Sector	Contact water quality	Developed area runoff water quality	Represents areas of constructed pad	Golder 2018b	X	X	
		Natural runoff water quality	Pads are removed	Azimuth 2016			X
GSP1	Contact water quality in closure and post-closure	Developed area runoff water quality, treated similar to developed pads with respect to calculation of loadings.	GSP1 will be backfilled with the NPAG/NML rock.	Agnico Eagle 2019a		X	X
Whale Tail Dike Well Sump	Residual explosives in riprap used to create collection ditch	Applied concentrations for nitrate and ammonia: ■ NO₃: 0.31 mg/L-N ■ NH₄: 0.13 mg/L-N Calculated as the difference between the average concentrations of the East Dike Seepage (ST-8) monitoring results (2016) and the average TPS Reference Area (2016).	Water collected by the Whale Tail dike well sump assumes the modelled water quality of Whale Tail Lake (South Basin) as it will be primarily seepage under the dike that is collected. However, site data from Meliadine shows that an increase in nitrogen species concentrations is possible due to explosives residues within the collection ditch.	Meadowbank Gold Project – 2016 Annual Report on NWB website	X		

Table B-10: Inputs and Assumptions for the Receiving and Downstream Environment

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
Receiving and downstream environment	Watershed runoff and initial lake concentrations	Input as a concentration Applied average "Watershed A" water quality (2014 – 2016).	Monitored results in the regional baseline water quality studies are considered analogous to natural runoff water quality of the area and lakes within it	Baseline data: Azimuth 2016 Details: Golder 2020a, Appendix A Input: Appendix A	X	X	X
	Mammoth Lake runoff and initial lake concentrations	Input as a concentration Applied average Mammoth Lake water quality (2014 – 2016).	Monitored results of Mammoth Lake in the regional baseline water quality studies are considered analogous to natural runoff water quality of Mammoth Lake	Baseline data: Azimuth 2016 Details: Golder 2020a, Appendix A Input: Appendix A	X	X	X
	Whale Tail Lake initial lake concentrations and Whale Tail Lake (South Basin) catchment runoff	Input as a concentration Applied average Whale Tail Lake water quality (2014 – 2016).	Monitored results of Whale Tail Lake in the regional baseline water quality studies are considered analogous to natural runoff water quality of Whale Tail Lake	Baseline data: Azimuth 2016 Details: Golder 2020a, Appendix A Input: Appendix A	X	X	X
	Ice formation on Whale Tail Lake (South Basin) and Mammoth Lake	Assumed 2 m of ice formation on Oct 1 of every year, which melts over 30 days in the subsequent June.	Site data shows an approximate maximum of 1.8 m of ice on lakes in the area.		X	X	X
Nemo Lake	Concentrations	Input as a concentrations Applied average Nemo Lake water quality (2015 – 2016)	Monitored results of Nemo Lake in the regional baseline water quality studies are considered analogous to natural runoff water quality of Nemo Lake	Baseline data: Azimuth 2016 Details: Golder 2020a, Appendix A Input: Appendix A	X	X	X

4.0 GEOCHEMICAL CONTROLS ON WATER QUALITY

4.1 Solubility Limits

Evaporation and recirculation of water increase concentrations of some constituents to beyond their solubility limits. Geochemical modelling was carried out on the modelled water quality of Whale Tail WRSF Contact Water Collection System, Whale Tail Attenuation Pond water, and Whale Tail Pit sump water to define the likely upper concentration limit for constituents controlled by solubility for the Approved Project site water quality model. The same solubility limits were applied to the current model as pH and oxidizing conditions are expected to be similar for all inflows, assuming acid rock drainage (ARD) is prevented from PAG rock.

The United States Geological Society mass transfer and speciation modelling code PhreeqC (Version 2.15.0) (Parkhurst and Appelo 1999) was used for this purpose. PhreeqC calculates aqueous speciation and solubility indices of solutions using the thermodynamic equations of mineral phases, assuming equilibrium conditions between mineral and soluble phases. The user specifies credible mineral phases that are allowed to precipitate. PhreeqC returns concentrations remaining after precipitation of the specified mineral phases and solubility indices for all mineral phases in the PhreeqC database. This code is widely used and accepted by the scientific and regulatory community.

GoldSim water quality results consisting of the water quality output from distinct time-steps for each of the stated ponds were used as input to PhreeqC. Pond waters were assumed to have a pH of 7 based on observed pH ranges in kinetic testing (Golder 2018b), and to be fully oxidizing.

The PhreeqC results identified iron and aluminum as being supersaturated in predicted water quality, and subject to solubility control through the precipitation of diaspore $[\text{AlO}(\text{OH})]$, and ferrihydrite in the expected neutral pH and oxidizing conditions in the ponds. The precipitates formed were assumed to be permanently removed from the mass balance and the remaining aqueous concentration of iron and aluminum were considered to represent maximum concentrations in these ponds at any time. These solubility limits were applied to aluminum and iron as summarized in Table B-11, and were hardwired into the GoldSim model as upper concentration limits for these constituents in water. The GoldSim model was then re-run with these fixed upper concentration limits.

Table B-11: Solubility Limits Applied in the Water Quality Model

Constituent	Unit	Whale Tail Waste Rock Storage Facility Pond	Whale Tail Pit Sump	Whale Tail Attenuation Pond
Aluminum	mg/L	0.0003	0.0002	0.0001
Iron	mg/L	0.06	0.7	0.3

Notes: mg/L = milligrams per litre

4.2 Effect of Total Suspended Solids on Total Constituent Concentrations

Though Total Suspended Solids (TSS) are not explicitly modelled, concentrations of TSS are assumed for sources into Mammoth and carried downstream conservatively (i.e., does not settle out but is subject to dilution effects). Using the assumed TSS concentrations, total metal concentrations for Project on-site facilities and discharges were estimated by adding a calculated particulate fraction to the dissolved concentration results from the model. Particulate fractions for the relevant constituents were based on solid phase geochemistry of each rock type, the proportion of each rock type in the final waste rock mass, and an assumed TSS concentration of 7.5 mg/L in the Project discharge in the summer months (June through September), and 15 mg/L in the Project discharge in the winter months (October through May). It was assumed that on-site facilities contained 15 mg/L TSS year-round. The maximum monthly average TSS limit in Type A Water Licence Part F Item 4 Whale Tail effluent (NWB 2018) is 15 mg/L.

Total concentrations could differ from predicted if TSS in the Expansion Project is lower than 15 mg/L or if the TSS has a different chemical composition, but there is also the potential for the concentrations to be higher depending on the actual composition of the TSS.

During operations, the addition of the particulate fraction did not produce any substantial change from the dissolved concentrations for most constituents except aluminum, chromium, and iron, and phosphorus, which showed a substantial increase in total concentration. This is expected for aluminum and iron as they were assumed to constitute the bulk of the chemical make up of TSS. Any presence of total aluminum or iron in effluent would be attributed to particulates rather than the dissolved phase given the anticipated neutral pH and oxidative environment of all site surface waters. Calcium and magnesium also comprise an important part of the suspended solids chemical composition, but their concentration is predicted to be elevated such that the additional contribution from TSS does not cause significant change.

In post-closure, it was assumed that TSS concentrations in the flooded pit lake would drop to approximately 1 mg/L, as particulate matter settles out of the water column. This is consistent with baseline TSS values from the area. Modelled particulate aluminum and iron exceed CEQG-AL regardless of dissolved concentrations in the flooded pit lakes. An assumed TSS concentration of 10 mg/L was applied to runoff that enters Mammoth Lake from the Whale Tail WRSF Pond in post-closure. This is consistent with baseline stream values as well as channel values at Meadowbank (Golder 2019f). Table B-12 presents modelled particulate concentrations for TSS concentrations of 1 mg/L, 7.5 mg/L, 10 mg/L, and 15 mg/L. Total concentrations are calculated by adding these particulate concentrations to the predicted dissolved concentrations for any water being discharged, as well as the Whale Tail Attenuation Pond, Whale Tail Pit, and Whale Tail WRSF in closure and post-closure.

This sensitivity analysis suggests that the presence of suspended solids to a maximum concentration of 15 mg/L is not likely to affect trace constituent concentrations such as arsenic because the concentration in the original mass is too low to result in a significant change in constituent concentrations. Conversely, rock forming elements such as iron, aluminum, potassium, magnesium and calcium can impart a measurable concentration to the total constituent concentration. Aluminum, iron and phosphorus maximum contributions from TSS are close to their effluent limit values. This exercise informs the need for TSS control in order to meet effluent criteria for these constituents. TSS control will occur at the discharge point during operation via the C-WTP and O-WTP.

Table B-11: Particulate Concentrations at 1 mg/L, 7.5 mg/L, 10 mg/L, and 15 mg/L TSS. Bolded and underlined values reflect exceedances of the CCME guidelines, and shaded values represent exceedances of the effluent limits

Constituent	Unit	Amaruq Effluent Quality Guideline	CCME	Particulate Concentration Added to Dissolved Concentrations			
				1 mg/L TSS	7.5 mg/L TSS	10 mg/L TSS	15 mg/L TSS
Cl	mg/L		120	0	0	0	0
F	mg/L		0.12	0.00017	0.0013	0.0017	0.0026
SO ₄	mg/L			0.0034	0.026	0.034	0.052
NH ₃	mg/L	16		0	0	0	0
NO ₃	mg/L		2.93	0	0	0	0
P	mg/L	0.30	0.010	0.00066	0.0049	0.0066	0.0098
Al	mg/L	0.50	0.10	0.022	<u>0.16</u>	<u>0.22</u>	<u>0.33</u>
Sb	mg/L			0.0000012	0.0000090	0.000012	0.000018
As	mg/L	0.10	0.025 ^a	0.00027	0.0021	0.0027	0.0041
Ba	mg/L			0.00020	0.0015	0.0020	0.0030
Be	mg/L			0.00000045	0.0000033	0.0000045	0.0000067
Bi	mg/L			0.00000017	0.0000013	0.0000017	0.0000026
B	mg/L		1.5	0.0000027	0.000021	0.000027	0.000041
Cd	mg/L	0.0020	0.000040	0.00000012	0.0000009	0.0000012	0.0000018
Ca	mg/L			0.019	0.14	0.19	0.29
Cr	mg/L	0.020		0.00057	0.0043	0.0057	0.0086
Co	mg/L			0.000034	0.00026	0.00034	0.00051
Cu	mg/L	0.10	0.0020	0.000033	0.00025	0.00033	0.00050
Fe	mg/L	1.0	0.30	0.045	<u>0.34</u>	<u>0.45</u>	<u>0.68</u>
Pb	mg/L	0.050	0.0010	0.0000087	0.000066	0.000087	0.00013
Li	mg/L			0.000018	0.00014	0.00018	0.00028
Mg	mg/L			0.027	0.20	0.27	0.41
Mn	mg/L			0.00077	0.0058	0.0077	0.012
Hg	mg/L	0.0040	0.000026	1.2E-09	9.1E-09	1.2E-08	1.8E-08
Mo	mg/L		0.073	0.0000013	0.0000099	0.000013	0.000020
Ni	mg/L	0.25	0.025	0.00027	0.0020	0.0027	0.0040
K	mg/L			0.011	0.083	0.11	0.17
Se	mg/L		0.0010	0.00000032	0.0000024	0.0000032	0.0000048

Constituent	Unit	Amaruq Effluent Quality Guideline	CCME	Particulate Concentration Added to Dissolved Concentrations			
				1 mg/L TSS	7.5 mg/L TSS	10 mg/L TSS	15 mg/L TSS
Ag	mg/L		0.00025	0.00000075	0.0000056	0.0000075	0.000011
Na	mg/L			0.00028	0.0021	0.0028	0.0042
Sr	mg/L			0.000091	0.00068	0.00091	0.0014
Tl	mg/L		0.00080	0.00000037	0.0000028	0.0000037	0.0000055
Sn	mg/L			0.00000046	0.0000034	0.0000046	0.0000069
U	mg/L		0.015	0.0000011	0.0000080	0.000011	0.000016
V	mg/L			0.000056	0.00042	0.00056	0.00084
Zn	mg/L	0.10	0.0070	0.000047	0.00035	0.00047	0.00070

Notes: ^a Arsenic is compared to the SSWQO of 0.025 mg/L.

APPENDIX C

Site and Downstream Water Quality Model Results

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0	0.05			0.004		0.25	
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total}	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Waste Rock Storage Facility Pond	Construction and Operations	January	2018	16	0	5.2	4.2	0.028	2.3	0.0065	0.0051	0.012	0.33	0.00012	0.0045	0.009	0.000027	0.000053	0.01	0.0000068	3.4	0.0087	0.00061	0.0009	0.69	0.0002	0.0013	1.3	0.013	0.0000051	0.000071	0.0047
		February		16	0	5.2	4.2	0.028	2.3	0.0065	0.0051	0.012	0.33	0.00012	0.0045	0.009	0.000027	0.000053	0.01	0.0000068	3.4	0.0087	0.00061	0.0009	0.69	0.0002	0.0013	1.3	0.013	0.0000051	0.000071	0.0047
		March		16	0	5.2	4.2	0.028	2.3	0.0065	0.0051	0.012	0.33	0.00012	0.0045	0.009	0.000027	0.000053	0.01	0.0000068	3.4	0.0087	0.00061	0.0009	0.69	0.0002	0.0013	1.3	0.013	0.0000051	0.000071	0.0047
		April		16	0	5.2	4.2	0.028	2.3	0.0065	0.0051	0.012	0.33	0.00012	0.0045	0.009	0.000027	0.000053	0.01	0.0000068	3.4	0.0087	0.00061	0.0009	0.69	0.0002	0.0013	1.3	0.013	0.0000051	0.000071	0.0047
		May		16	0	5.2	4.2	0.028	2.3	0.0065	0.0051	0.012	0.33	0.00012	0.0045	0.009	0.000027	0.000053	0.01	0.0000068	3.4	0.0087	0.00061	0.0009	0.69	0.0002	0.0013	1.3	0.013	0.0000051	0.000071	0.0047
		June		16	0	5.2	4.2	0.028	2.3	0.0065	0.0051	0.012	0.33	0.00012	0.0045	0.0089	0.000027	0.000052	0.01	0.0000068	3.4	0.0087	0.00061	0.0009	0.69	0.0002	0.0013	1.3	0.013	0.0000051	0.000071	0.0047
		July		41	0.0038	5.1	2.3	0.037	1.7	0.17	6.6	0.012	0.33	0.00016	0.0079	0.008	0.000027	0.000053	0.01	0.0000069	2.2	0.0088	0.00062	0.0012	0.74	0.00022	0.0013	1.3	0.014	0.0000052	0.000079	0.005
		August		12	0.0053	5.2	2.3	0.039	1.8	0.006	0.03	0.013	0.33	0.00018	0.0093	0.008	0.000027	0.000053	0.011	0.000007	2.2	0.0089	0.00063	0.0012	0.74	0.00022	0.0013	1.3	0.015	0.0000052	0.000083	0.005
		September		12	0.0032	5.1	2.3	0.037	1.7	0.0056	0.014	0.012	0.33	0.00016	0.0073	0.0079	0.000027	0.000053	0.01	0.0000069	2.2	0.0088	0.00062	0.0012	0.74	0.00022	0.0013	1.3	0.014	0.0000052	0.000078	0.005
		October		12	0.0038	5.1	2.3	0.038	1.7	0.0056	0.014	0.012	0.33	0.00016	0.0079	0.008	0.000027	0.000053	0.011	0.0000069	2.2	0.0088	0.00062	0.0012	0.74	0.00022	0.0013	1.3	0.014	0.0000052	0.000079	0.005
		November		12	0.0038	5.1	2.3	0.038	1.7	0.0056	0.014	0.012	0.33	0.00016	0.0079	0.008	0.000027	0.000053	0.011	0.0000069	2.2	0.0088	0.00062	0.0012	0.74	0.00022	0.0013	1.3	0.014	0.0000052	0.000079	0.005
		December		12	0.0038	5.1	2.3	0.038	1.7	0.0056	0.014	0.012	0.33	0.00016	0.0079	0.008	0.000027	0.000053	0.011	0.0000069	2.2	0.0088	0.00062	0.0012	0.74	0.00022	0.0013	1.3	0.014	0.0000052	0.000079	0.005
		January	2019	12	0.0038	5.1	2.3	0.038	1.7	0.0056	0.014	0.012	0.33	0.00016	0.0079	0.008	0.000027	0.000053	0.011	0.0000069	2.2	0.0088	0.00062	0.0012	0.74	0.00022	0.0013	1.3	0.014	0.0000052	0.000079	0.005
		February		12	0.0038	5.1	2.3	0.038	1.7	0.0056	0.014	0.012	0.33	0.00016	0.0079	0.008	0.000027	0.000053	0.011	0.0000069	2.2	0.0088	0.00062	0.0012	0.74	0.00022	0.0013	1.3	0.014	0.0000052	0.000079	0.005
		March		12	0.0038	5.1	2.3	0.038	1.7	0.0056	0.014	0.012	0.33	0.00016	0.0079	0.008	0.000027	0.000053	0.011	0.0000069	2.2	0.0088	0.00062	0.0012	0.74	0.00022	0.0013	1.3	0.014	0.0000052	0.000079	0.005
		April		12	0.0038	5.1	2.3	0.038	1.7	0.0056	0.014	0.012	0.33	0.00016	0.0079	0.008	0.000027	0.000053	0.011	0.0000069	2.2	0.0088	0.00062	0.0012	0.74	0.00022	0.0013	1.3	0.014	0.0000052	0.000079	0.005
		May		12	0.0038	5.1	2.3	0.038	1.7	0.0056	0.014	0.012	0.33	0.00016	0.0079	0.008	0.000027	0.000053	0.011	0.0000069	2.2	0.0088	0.00062	0.0012	0.74	0.00022	0.0013	1.3	0.014	0.0000052	0.000079	0.005
		June		17	0.022	5.6	2.2	0.045	2.5	0.021	0.64	0.014	0.33	0.00032	0.021	0.0081	0.000027	0.000049	0.011	0.000007	2.4	0.0089	0.00065	0.0013	0.74	0.00024	0.0013	1.3	0.017	0.0000054	0.00011	0.0051
		July		18	0.036	6.3	2.3	0.053	3.2	0.018	0.52	0.015	0.33	0.00046	0.032	0.0085	0.000028	0.00005	0.013	0.0000073	2.7	0.009	0.00068	0.0014	0.74	0.00026	0.0014	1.3	0.019	0.0000059	0.00014	0.0052
		August		24	0.082	8.9	2.6	0.079	5.6	0.014	0.34	0.018	0.33	0.00088	0.065	0.01	0.000034	0.000054	0.018	0.0000087	3.7	0.0093	0.00078	0.0019	0.74	0.00032	0.0016	1.5	0.025	0.0000078	0.00024	0.0057
		September		21	0.068	8.2	2.6	0.072	4.8	0.0066	0.054	0.017	0.33	0.00074	0.053	0.0098	0.000033	0.000055	0.017	0.0000085	3.4	0.0092	0.00075	0.0017	0.74	0.0003	0.0016	1.5	0.023	0.0000074	0.00021	0.0056
		October		21	0.068	8.2	2.6	0.072	4.8	0.0066	0.054	0.017	0.33	0.00074	0.053	0.0098	0.000033	0.000055	0.017	0.0000085	3.4	0.0092	0.00075	0.0017	0.74	0.0003	0.0016	1.5	0.023	0.0000074	0.00021	0.0056
		November		21	0.068	8.2	2.6	0.072	4.8	0.0066	0.054	0.017	0.33	0.00074	0.053	0.0098	0.000033	0.000055	0.017	0.0000085	3.4	0.0092	0.00075	0.0017	0.74	0.0003	0.0016	1.5	0.023	0.0000074	0.00021	0.0056
		December		21	0.068	8.2	2.6	0.072	4.8	0.0066	0.054	0.017	0.33	0.00074	0.053	0.0098	0.000033	0.000055	0.017	0.0000085	3.4	0.0092	0.00075	0.0017	0.74	0.0003	0.0016	1.5	0.023	0.0000074	0.00021	0.0056
		January	2020	21	0.068	8.2	2.6	0.072	4.8	0.0066	0.054	0.017	0.33	0.00074	0.053	0.0098	0.000033	0.000055	0.017	0.0000085	3.4	0.0092	0.00075	0.0017	0.74	0.0003	0.0016	1.5	0.023	0.0000074	0.00021	0.0056
		February		21	0.068	8.2	2.6	0.072	4.8	0.0066	0.054	0.017	0.33	0.00074	0.053	0.0098	0.000033	0.000055	0.017	0.0000085	3.4	0.0092	0.00075									

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)													
Constituent				K	Se	Ag	Na	Sr	Tl	Sn	U	V	g.i Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Waste Rock Storage Facility Pond	Construction and Operations	January	2018	0.76	0.000055	0.000021	0.6	0.021	0.000016	0.00011	0.000036	0.0013	0.0017
		February		0.76	0.000055	0.000021	0.6	0.021	0.000016	0.00011	0.000036	0.0013	0.0017
		March		0.76	0.000055	0.000021	0.6	0.021	0.000016	0.00011	0.000036	0.0013	0.0017
		April		0.76	0.000055	0.000021	0.6	0.021	0.000016	0.00011	0.000036	0.0013	0.0017
		May		0.76	0.000055	0.000021	0.6	0.021	0.000016	0.00011	0.000036	0.0013	0.0017
		June		0.75	0.000055	0.000021	0.6	0.021	0.000016	0.00011	0.000036	0.0013	0.0017
		July		0.64	0.000059	0.000021	0.78	0.013	0.000016	0.00011	0.0001	0.0014	0.0019
		August		0.66	0.000061	0.000021	0.82	0.013	0.000016	0.00011	0.0001	0.0014	0.0019
		September		0.63	0.000059	0.000021	0.76	0.013	0.000016	0.00011	0.000099	0.0014	0.0019
		October		0.64	0.00006	0.000021	0.78	0.013	0.000016	0.00011	0.0001	0.0014	0.0019
		November		0.64	0.00006	0.000021	0.78	0.013	0.000016	0.00011	0.0001	0.0014	0.0019
		December		0.64	0.00006	0.000021	0.78	0.013	0.000016	0.00011	0.0001	0.0014	0.0019
		January	2019	0.64	0.00006	0.000021	0.78	0.013	0.000016	0.00011	0.0001	0.0014	0.0019
		February		0.64	0.00006	0.000021	0.78	0.013	0.000016	0.00011	0.0001	0.0014	0.0019
		March		0.64	0.00006	0.000021	0.78	0.013	0.000016	0.00011	0.0001	0.0014	0.0019
		April		0.64	0.00006	0.000021	0.78	0.013	0.000016	0.00011	0.0001	0.0014	0.0019
		May		0.64	0.00006	0.000021	0.78	0.013	0.000016	0.00011	0.0001	0.0014	0.0019
		June		0.8	0.000074	0.000021	1.1	0.013	0.000015	0.00011	0.00014	0.0014	0.0019
		July		0.95	0.000088	0.000022	1.4	0.014	0.000016	0.00011	0.00017	0.0015	0.002
		August		1.4	0.00014	0.000024	2.4	0.018	0.000017	0.00013	0.00029	0.0017	0.0023
		September		1.3	0.00012	0.000023	2.1	0.017	0.000017	0.00013	0.00025	0.0017	0.0022
		October		1.3	0.00012	0.000023	2.1	0.017	0.000017	0.00013	0.00025	0.0017	0.0022
		November		1.3	0.00012	0.000023	2.1	0.017	0.000017	0.00013	0.00025	0.0017	0.0022
		December		1.3	0.00012	0.000023	2.1	0.017	0.000017	0.00013	0.00025	0.0017	0.0022
		January	2020	1.3	0.00012	0.000023	2.1	0.017	0.000017	0.00013	0.00025	0.0017	0.0022
		February		1.3	0.00012	0.000023	2.1	0.017	0.000017	0.00013	0.00025	0.0017	0.0022
		March		1.3	0.00012	0.000023	2.1	0.017	0.000017	0.00013	0.00025	0.0017	0.0022
		April		1.3	0.00012	0.000023	2.1	0.017	0.000017	0.00013	0.00025	0.0017	0.0022
		May		1.3	0.00012	0.000023	2.1	0.017	0.000017	0.00013	0.00025	0.0017	0.0022
		June		4.5	0.00043	0.000047	7.2	0.052	0.000039	0.00035	0.00089	0.0035	0.0053
		July		8.1	0.00061	0.000031	3.5	0.063	0.000025	0.00022	0.0011	0.0033	0.003
		August		8.1	0.0006	0.00003	2.5	0.063	0.000025	0.00021	0.001	0.0033	0.0028
		September		5.2	0.00039	0.000026	1.7	0.043	0.000021	0.00017	0.00067	0.0025	0.0024
		October		5.4	0.0004	0.000026	1.7	0.045	0.000021	0.00017	0.00068	0.0025	0.0024
		November		5.4	0.0004	0.000026	1.7	0.045	0.000021	0.00017	0.00068	0.0025	0.0024
		December		5.4	0.0004	0.000026	1.7	0.045	0.000021	0.00017	0.00068	0.0025	0.0024
		January	2021	5.4	0.0004	0.000026	1.7	0.045	0.000021	0.00017	0.00068	0.0025	0.0024
		February		5.4	0.0004	0.000026	1.7	0.045	0.000021	0.00017	0.00068	0.0025	0.0024
		March		5.4	0.0004	0.000026	1.7	0.045	0.000021	0.00017	0.00068	0.0025	0.0024
		April		5.4	0.0004	0.000026	1.7	0.045	0.000021	0.00017	0.00068	0.0025	0.0024
		May		5.4	0.0004	0.000026	1.7	0.045	0.000021	0.00017	0.00068	0.0025	0.0024
		June		2.5	0.00018	0.00002	0.85	0.022	0.000015	0.0001	0.00033	0.0017	0.0017
		July		15	0.0011	0.000037	3.5	0.11	0.000034	0.00031	0.002	0.005	0.0036
		August		13	0.001	0.000035	3.2	0.097	0.000032	0.0003	0.0018	0.0047	0.0035
		September		7.7	0.00059	0.000029	2.0	0.059	0.000025	0.00022	0.0011	0.0033	0.0028
		October		7.4	0.00058	0.000029	1.9	0.057	0.000025	0.00022	0.001	0.0033	0.0028
		November		7.4	0.00058	0.000029	1.9	0.057	0.000025	0.00022	0.001	0.0033	0.0028
		December		7.4	0.00058	0.000029	1.9	0.057	0.000025	0.00022	0.001	0.0033	0.0028
		January	2022	7.4	0.00058	0.000029	1.9	0.057	0.000025	0.00022	0.001	0.0033	0.0028
		February		7.4	0.00058	0.000029	1.9	0.057	0.000025	0.00022	0.001	0.0033	0.0028
		March		7.4	0.00058	0.000029	1.9	0.057	0.000025	0.00022	0.001	0.0033	0.0028
		April		7.4	0.00058	0.000029	1.9	0.057	0.000025	0.00022	0.001	0.0033	0.0028
		May		7.4	0.00058	0.000029	1.9	0.057	0.000025	0.00022	0.001	0.0033	0.0028
		June		2.4	0.00019	0.00002	0.75	0.021	0.000015	0.0001	0.00035	0.0017	0.0017
		July		8.6	0.00068	0.00003	1.9	0.064	0.000028	0.00025	0.0014	0.0037	0.0032
		MINIMUM		0.63	0.000055	0.00002	0.6	0.013	0.000015	0.0001	0.000036	0.0013	0.0017
		MAXIMUM		15	0.0011	0.000047	7.2	0.11	0.000039	0.00035	0.002	0.005	0.0053
		AVERAGE		3.7	0.00029	0.000025	1.7	0.034	0.00002	0.00016	0.00052	0.0022	0.0023
Whale Tail Waste Rock Storage Facility Pond	Closure	January	≥2023	2.8	0.00019	0.000021	0.91	0.028	0.000021	0.00021	0.0011	0.0016	0.0031
		February		2.8	0.00019	0.000021	0.91	0.028	0.000021	0.00021	0.0011	0.0016	0.0031
		March		2.8	0.00019	0.000021	0.91	0.028	0.000021	0.00021	0.0011	0.0016	0.0031
		April		2.8	0.00019	0.000021	0.91	0.028	0.000021	0.00021	0.0011	0.0016	0.0031
		May		2.8	0.00019	0.000021	0.91	0.028	0.000021	0.00021	0.0011	0.0016	0.0031
		June		0.98	0.000071	0.000015	0.47	0.012	0.000012	0.000094	0.00032	0.001	0.0016
		July		5.0	0.00032	0.000024	1.1	0.042	0.000027	0.0003	0.002	0.0021	0.0044
		August		4.7	0.00031	0.000024	1.1	0.04	0.000026	0.00029	0.0019	0.002	0.0043
		September		2.9	0.0002	0.000021	0.92	0.028	0.000021	0.00021	0.0011	0.0016	0.0031
		October		2.8	0.00019	0.000021	0.91	0.028	0.000021	0.00021	0.0011	0.0016	0.0031
		November		2.8	0.00019	0.000021	0.91	0.028	0.000021	0.00021	0.0011	0.0016	0.0031
		December		2.8	0.00019	0.000021	0.91	0.028	0.000021	0.00021	0.0011	0.0016	0.0031
		MINIMUM		0.98	0.000071	0.000015	0.47	0.012	0.000012	0.000094	0.00032	0.001	0.0016
		MAXIMUM		5.0	0.00032	0.000024	1.1	0.042	0.000027	0.0003	0.002	0.0021	0.0044
		AVERAGE		3.0	0.0002	0.000021	0.91	0.029	0.000021	0.00021	0.0012	0.0016	0.0032

Notes:

¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P_total	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Quarry 1	Construction and Operations	January	2018	69	0	6.5	3.7	0.04	2.0	0.3	12	0.013	0.33	0.00016	0.0043	0.0089	0.000035	0.000074	0.014	0.0000089	3.3	0.0088
		February		70	0	6.9	4.0	0.042	2.1	0.3	12	0.013	0.33	0.00017	0.0043	0.0093	0.000037	0.000079	0.015	0.0000094	3.5	0.0088
		March		70	0	6.9	4.0	0.042	2.1	0.3	12	0.013	0.33	0.00017	0.0043	0.0093	0.000037	0.000079	0.015	0.0000094	3.5	0.0088
		April		70	0	6.9	4.0	0.042	2.1	0.3	12	0.013	0.33	0.00017	0.0043	0.0093	0.000037	0.000079	0.015	0.0000094	3.5	0.0088
		May		70	0	6.9	4.0	0.042	2.1	0.3	12	0.013	0.33	0.00017	0.0043	0.0093	0.000037	0.000079	0.015	0.0000094	3.5	0.0088
		June		63	0.065	3.9	1.8	0.029	1.4	0.3	12	0.012	0.33	0.00012	0.0053	0.0068	0.000022	0.000041	0.0078	0.0000057	1.9	0.0088
		July		64	0.22	4.3	1.7	0.033	2.2	0.3	12	0.011	0.33	0.00017	0.0076	0.007	0.000021	0.000038	0.0076	0.0000057	2.1	0.0088
		August		67	0.48	5.3	1.9	0.042	3.5	0.3	12	0.012	0.33	0.00026	0.011	0.0079	0.000022	0.000039	0.0084	0.0000063	2.7	0.0088
		September		69	0.56	5.7	1.9	0.046	3.9	0.3	12	0.012	0.33	0.00029	0.013	0.0081	0.000023	0.00004	0.0086	0.0000065	2.9	0.0088
		October		68	0.54	5.6	1.9	0.045	3.8	0.3	12	0.012	0.33	0.00028	0.012	0.0081	0.000023	0.00004	0.0086	0.0000065	2.9	0.0088
		November		68	0.53	5.7	1.9	0.045	3.8	0.3	12	0.012	0.33	0.00028	0.012	0.0081	0.000023	0.00004	0.0086	0.0000065	2.9	0.0088
		December		68	0.53	5.7	1.9	0.044	3.8	0.3	12	0.012	0.33	0.00028	0.012	0.008	0.000023	0.00004	0.0086	0.0000065	2.9	0.0088
		January	2019	68	0.52	5.7	1.9	0.044	3.8	0.3	12	0.012	0.33	0.00028	0.012	0.008	0.000023	0.00004	0.0086	0.0000065	2.8	0.0088
		February		68	0.51	5.7	1.8	0.044	3.8	0.3	12	0.012	0.33	0.00027	0.012	0.008	0.000023	0.00004	0.0086	0.0000065	2.8	0.0088
		March		68	0.51	5.8	1.8	0.044	3.8	0.3	12	0.012	0.33	0.00027	0.012	0.008	0.000023	0.000041	0.0087	0.0000065	2.8	0.0088
		April		68	0.5	5.8	1.8	0.043	3.8	0.3	12	0.012	0.33	0.00027	0.012	0.008	0.000023	0.000041	0.0087	0.0000065	2.8	0.0088
		May		68	0.49	5.8	1.8	0.043	3.8	0.3	12	0.012	0.33	0.00027	0.012	0.008	0.000023	0.000041	0.0087	0.0000065	2.8	0.0088
		June		71	1.3	5.9	2.2	0.046	4.9	0.3	12	0.012	0.33	0.00038	0.016	0.0083	0.000023	0.000041	0.0092	0.0000067	3.3	0.0088
		July		80	3.8	7.2	3.6	0.06	9.1	0.3	12	0.013	0.33	0.00076	0.031	0.0098	0.000026	0.000043	0.011	0.0000078	5.2	0.0088
		August		90	5.6	9.0	4.8	0.08	13	0.3	12	0.015	0.33	0.0012	0.051	0.012	0.00003	0.000048	0.015	0.0000093	7.0	0.0089
		September		92	6.1	9.6	5.2	0.086	14	0.3	12	0.016	0.33	0.0013	0.057	0.012	0.000031	0.000049	0.016	0.0000097	7.5	0.0089
		October		89	5.3	9.0	4.8	0.08	13	0.3	12	0.015	0.33	0.0012	0.053	0.011	0.00003	0.000049	0.015	0.0000093	6.9	0.0089
		November		83	3.4	9.6	3.3	0.064	9.7	0.3	12	0.014	0.33	0.00079	0.035	0.011	0.000032	0.000058	0.015	0.0000091	5.7	0.0089
		December		68	0.21	7.7	0.73	0.029	3.8	0.3	12	0.012	0.33	0.00016	0.0063	0.0074	0.000027	0.000053	0.01	0.000007	2.8	0.0087
		January	2020	67	0.0088	7.5	0.57	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0045	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087
		February		67	0.0004	7.5	0.56	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087
		March		67	0.00002	7.5	0.56	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087
		April		67	0.000000086	7.5	0.56	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087
		May		67	3.9E-08	7.5	0.56	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087
		June		77	1.5	8.1	3.0	0.066	7.0	0.3	12	0.015	0.33	0.00081	0.05	0.010	0.00003	0.000052	0.014	0.0000084	4.4	0.009
		MINIMUM		63	3.9E-08	3.9	0.56	0.027	1.4	0.3	12	0.011	0.33	0.00012	0.0043	0.0068	0.000021	0.000038	0.0076	0.0000057	1.9	0.0087
		MAXIMUM		92	6.1	9.6	5.2	0.086	14	0.3	12	0.016	0.33	0.0013	0.057	0.012	0.000037	0.000079	0.016	0.0000097	7.5	0.009
		AVERAGE		71	1.3	6.8	2.4	0.045	4.8	0.3	12	0.013	0.33	0.00037	0.016	0.0086	0.000027	0.000051	0.011	0.0000075	3.5	0.0088

Notes:
¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-
underlined-highlighted cells

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)					0.1	1.0	0.05				0.004		0.25										0.1		
Constituent				Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn		
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
Quarry 1	Construction and Operations	January	2018	0.00065	0.0012	0.7	0.00021	0.0017	1.4	0.014	0.0000072	0.000091	0.0049	0.74	0.000076	0.000025	0.78	0.022	0.00002	0.00015	0.000061	0.0016	0.0023		
		February		0.00066	0.0012	0.7	0.00021	0.0018	1.5	0.014	0.0000077	0.000096	0.005	0.78	0.000081	0.000026	0.84	0.023	0.000021	0.00016	0.000064	0.0016	0.0024		
		March		0.00066	0.0012	0.7	0.00021	0.0018	1.5	0.014	0.0000077	0.000096	0.005	0.78	0.000081	0.000026	0.84	0.023	0.000021	0.00016	0.000064	0.0016	0.0024		
		April		0.00066	0.0012	0.7	0.00021	0.0018	1.5	0.014	0.0000077	0.000096	0.005	0.78	0.000081	0.000026	0.84	0.023	0.000021	0.00016	0.000064	0.0016	0.0024		
		May		0.00066	0.0012	0.7	0.00021	0.0018	1.5	0.014	0.0000077	0.000096	0.005	0.78	0.000081	0.000026	0.84	0.023	0.000021	0.00016	0.000064	0.0016	0.0024		
		June		0.00059	0.0010	0.72	0.00019	0.0011	1.1	0.013	0.0000041	0.00012	0.0047	0.6	0.000049	0.000019	0.51	0.011	0.000013	0.00009	0.00011	0.0012	0.0016		
		July		0.0006	0.001	0.72	0.00019	0.0011	1.1	0.014	0.0000046	0.00027	0.0047	0.84	0.000062	0.000019	0.52	0.012	0.000014	0.000096	0.00021	0.0013	0.0017		
		August		0.00062	0.001	0.72	0.00019	0.0013	1.2	0.015	0.0000059	0.00052	0.0048	1.3	0.000089	0.000019	0.58	0.014	0.000015	0.00012	0.00037	0.0014	0.002		
		September		0.00063	0.0011	0.72	0.0002	0.0013	1.2	0.015	0.0000063	0.0006	0.0048	1.4	0.000098	0.00002	0.6	0.015	0.000015	0.00012	0.00043	0.0014	0.0021		
		October		0.00063	0.001	0.72	0.0002	0.0013	1.2	0.015	0.0000062	0.00058	0.0048	1.4	0.000096	0.00002	0.6	0.015	0.000015	0.00012	0.00042	0.0014	0.0021		
		November		0.00063	0.001	0.72	0.0002	0.0013	1.2	0.015	0.0000062	0.00057	0.0048	1.4	0.000095	0.00002	0.6	0.015	0.000015	0.00012	0.00041	0.0014	0.0021		
		December		0.00063	0.001	0.72	0.0002	0.0013	1.2	0.015	0.0000062	0.00057	0.0048	1.4	0.000095	0.00002	0.6	0.015	0.000015	0.00012	0.00041	0.0014	0.0021		
		January	2019	0.00063	0.001	0.72	0.0002	0.0013	1.2	0.015	0.0000062	0.00056	0.0048	1.4	0.000094	0.00002	0.59	0.015	0.000015	0.00012	0.0004	0.0014	0.002		
		February		0.00063	0.001	0.72	0.0002	0.0013	1.2	0.015	0.0000062	0.00055	0.0048	1.4	0.000094	0.00002	0.59	0.015	0.000015	0.00012	0.0004	0.0014	0.002		
		March		0.00063	0.001	0.72	0.0002	0.0013	1.2	0.015	0.0000062	0.00055	0.0048	1.4	0.000093	0.00002	0.59	0.015	0.000015	0.00012	0.00039	0.0014	0.002		
		April		0.00063	0.001	0.72	0.0002	0.0013	1.2	0.015	0.0000061	0.00054	0.0048	1.4	0.000093	0.00002	0.59	0.015	0.000015	0.00012	0.00039	0.0014	0.002		
		May		0.00063	0.001	0.72	0.0002	0.0013	1.2	0.015	0.0000061	0.00053	0.0048	1.3	0.000092	0.00002	0.59	0.015	0.000015	0.00012	0.00038	0.0014	0.002		
		June		0.00069	0.0011	0.74	0.0002	0.0014	1.3	0.022	0.0000065	0.00057	0.0072	1.5	0.000099	0.000024	0.66	0.016	0.000017	0.00013	0.00034	0.0014	0.0021		
		July		0.00087	0.0013	0.79	0.00021	0.0017	1.5	0.042	0.0000087	0.00086	0.014	2.4	0.00014	0.000035	0.92	0.021	0.000023	0.00015	0.00035	0.0015	0.0026		
		August		0.001	0.0016	0.84	0.00023	0.002	1.8	0.058	0.000011	0.0011	0.019	3.1	0.00018	0.000045	1.4	0.026	0.000029	0.00018	0.0004	0.0016	0.0031		
		September		0.0011	0.0017	0.85	0.00024	0.0021	1.8	0.063	0.000012	0.0012	0.021	3.4	0.00019	0.000047	1.6	0.027	0.00003	0.00019	0.00042	0.0016	0.0032		
		October		0.001	0.0016	0.83	0.00024	0.002	1.8	0.057	0.000011	0.0011	0.019	3.0	0.00018	0.000044	1.5	0.026	0.000028	0.00018	0.00038	0.0016	0.003		
		November		0.00089	0.0014	0.78	0.00025	0.0019	1.8	0.041	0.0000095	0.0007	0.014	2.3	0.00014	0.000037	1.2	0.022	0.000025	0.00017	0.00025	0.0016	0.0027		
		December		0.00063	0.0008	0.7	0.00022	0.0013	1.5	0.015	0.0000053	0.00011	0.0051	0.87	0.00006	0.000022	0.56	0.012	0.000016	0.00012	0.00004	0.0014	0.0018		
		January	2020	0.00061	0.00076	0.69	0.00022	0.0013	1.5	0.013	0.000005	0.000073	0.0046	0.78	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000027	0.0013	0.0018		
		February		0.00061	0.00076	0.69	0.00022	0.0013	1.5	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000026	0.0013	0.0018		
		March		0.00061	0.00076	0.69	0.00022	0.0013	1.5	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000026	0.0013	0.0018		
		April		0.00061	0.00076	0.69	0.00022	0.0013	1.5	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000026	0.0013	0.0018		
		May		0.00061	0.00076	0.69	0.00022	0.0013	1.5	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000026	0.0013	0.0018		
		June		0.00079	0.0015	0.75	0.00026	0.0017	1.6	0.03	0.000008	0.00051	0.0088	1.8	0.00014	0.000028	1.5	0.019	0.00002	0.00014	0.00031	0.0016	0.0024		
				MINIMUM		0.00059	0.00076	0.69	0.00019	0.0011	1.1	0.013	0.0000041	0.000072	0.0046	0.6	0.000049	0.000019	0.51	0.011	0.000013	0.00009	0.000026	0.0012	0.0016
				MAXIMUM		0.0011	0.0017	0.85	0.00026	0.0021	1.8	0.063	0.000012	0.0012	0.021	3.4	0.00019	0.000047	1.6	0.027	0.00003	0.00019	0.00043	0.0016	0.0032
				AVERAGE		0.0007	0.0011	0.73	0.00021	0.0015	1.4	0.021	0.0000068	0.00043	0.0071	1.4	0.000095	0.000025	0.77	0.017	0.000018	0.00014	0.00024	0.0014	0.0022

Notes:
¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-
underlined-highlighted cells

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0		
CCME (CEQG-PAL [chronic]) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004			0.002	0.3			
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ³⁺	Sb	As ³⁺	Ba	Be	Bi	B	Cd ⁴	Ca	Cr	Co	Cu ²⁺	Fe		
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
Whale Tail Pit	Operations	January	2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		February		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		March		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		April		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		May		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		June		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		July		83	1.0	8.7	2.7	0.07	10	0.3	12	0.012	0.33	0.00057	0.048	0.01	0.000028	0.00005	0.011	0.0000085	5.7	0.0088	0.00071	0.0012	0.74		
		August		71	0.44	6.2	2.3	0.048	5.1	0.3	12	0.012	0.33	0.0003	0.023	0.0086	0.000026	0.000048	0.01	0.0000072	3.5	0.0088	0.00065	0.0012	0.73		
		September		66	0.15	5.0	2.1	0.037	2.6	0.3	12	0.012	0.33	0.00017	0.011	0.0077	0.000025	0.000047	0.0093	0.0000066	2.4	0.0088	0.00062	0.0011	0.73		
		October		67	0.0046	7.4	0.61	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0046	0.0072	0.000027	0.000052	0.01	0.0000068	2.6	0.0087	0.00061	0.00077	0.69		
		November		67	0	7.5	0.56	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087	0.00061	0.00076	0.69		
		December		67	0	7.5	0.56	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087	0.00061	0.00076	0.69		
		January	2019	67	0	7.5	0.56	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087	0.00061	0.00076	0.69		
		February		67	0	7.5	0.56	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087	0.00061	0.00076	0.69		
		March		67	0	7.5	0.56	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087	0.00061	0.00076	0.69		
		April		67	0	7.5	0.56	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087	0.00061	0.00076	0.69		
		May		64	0.0046	5.0	0.56	0.027	2.6	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000025	0.000047	0.0093	0.0000066	2.4	0.0087	0.00061	0.00076	0.69		
		June		64	0.0046	5.0	0.56	0.027	2.6	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000025	0.000047	0.0093	0.0000066	2.4	0.0087	0.00061	0.00076	0.69		
		July		64	0.0046	5.0	0.56	0.027	2.6	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000025	0.000047	0.0093	0.0000066	2.4	0.0087	0.00061	0.00076	0.69		
		August		64	0.0046	5.0	0.56	0.027	2.6	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000025	0.000047	0.0093	0.0000066	2.4	0.0087	0.00061	0.00076	0.69		
		September		64	0.0046	5.0	0.56	0.027	2.6	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000025	0.000047	0.0093	0.0000066	2.4	0.0087	0.00061	0.00076	0.69		
		October		64	0.0046	5.0	0.56	0.027	2.6	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000025	0.000047	0.0093	0.0000066	2.4	0.0087	0.00061	0.00076	0.69		
		November		64	0.0046	5.0	0.56	0.027	2.6	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000025	0.000047	0.0093	0.0000066	2.4	0.0087	0.00061	0.00076	0.69		
		December		64	0.0046	5.0	0.56	0.027	2.6	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000025	0.000047	0.0093	0.0000066	2.4	0.0087	0.00061	0.00076	0.69		
		January	2020	64	0.0046	5.0	0.56	0.027	2.6	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000025	0.000047	0.0093	0.0000066	2.4	0.0087	0.00061	0.00076	0.69		
		February		64	0.0046	5.0	0.56	0.027	2.6	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000025	0.000047	0.0093	0.0000066	2.4	0.0087	0.00061	0.00076	0.69		
		March		64	0.0046	5.0	0.56	0.027	2.6	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000025	0.000047	0.0093	0.0000066	2.4	0.0087	0.00061	0.00076	0.69		
		April		64	0.0046	5.0	0.56	0.027	2.6	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000025	0.000047	0.0093	0.0000066	2.4	0.0087	0.00061	0.00076	0.69		
		May		64	0.0046	5.0	0.56	0.027	2.6	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000025	0.000047	0.0093	0.0000066	2.4	0.0087	0.00061	0.00076	0.69		
		June		83	1.0	8.7	2.7	0.07	10	0.3	12	0.012	0.33	0.00057	0.048	0.01	0.000028	0.000053	0.011	0.0000085	5.7	0.0088	0.00071	0.0012	0.74		
		July		306	0.52	80	79	0.16	40	0.3	12	0.071	0.33	0.0045	0.28	0.058	0.000074	0.000067	0.69	0.000063	33	0.014	0.0028	0.0061	1.4		
		August		293	0.5	76	75	0.15	38	0.3	12	0.068	0.33	0.0042	0.27	0.056	0.000071	0.000065	0.65	0.00006	31	0.014	0.0027	0.0058	1.4		
		September		258	0.29	57	75	0.14	28	0.3	12	0.068	0.33	0.0024	0.15	0.05	0.000059	0.00006	0.43	0.000051	27	0.012	0.002	0.0041	1.2		
		October		427	0.075	77	174	0.27	35	0.3	12	0.14	0.33	0.00079	0.042	0.091	0.000084	0.000086	0.39	0.000088	52	0.01	0.0019	0.0038	0.84		
		November		491	0.0018	85	210	0.31	39	0.3	12	0.17	0.33	0.00028	0.0074	0.11	0.000093	0.000096	0.38	0.0001	61	0.0096	0.002	0.0038	0.73		
		December		492	0.00015	86	210	0.31	39	0.3	12	0.17	0.33	0.00027	0.0067	0.11	0.000094	0.000096	0.38	0.0001	61	0.0096	0.002	0.0038	0.73		
		January	2021	370	0.00041	63	151	0.23	28	0.3	12	0.13	0.33	0.00024	0.006	0.079	0.000077	0.000092	0.28	0.000075	44	0.0094	0.0016	0.0031	0.72		
		February		305	0.00058	51	118	0.19	23	0.3	12	0.1	0.33	0.00023	0.0057	0.064	0.000069	0.000089	0.22	0.000061	35	0.0092	0.0014	0.0027	0.72		
		March		301	0.00059	50	116	0.19	22	0.3	12	0.1	0.33	0.00022	0.0057	0.063	0.000068	0.000089	0.22	0.00006	35	0.0092	0.0014	0.0026	0.72		
		April		300	0.00059	50	116	0.19	22	0.3	12	0.1	0.33	0.00022	0.0057	0.063	0.000068	0.000089	0.22	0.00006	35	0.0092	0.0014	0.0026	0.72		
		May		300	0.00059	50	116	0.19	22	0.3	12	0.1	0.33	0.00022	0.0057	0.063	0.000068	0.000089	0.22	0.00006	35	0.0092	0.0014	0.0026	0.72		
		June		129	0.17	24	24	0.061	12	0.3	12	0.029	0.33	0.0012	0.076	0.021	0.000034	0.000044	0.19	0.000021	10	0.01	0.0012	0.0023	0.95		
		July		212	0.83	63	31	0.098	33	0.3	12	0.036	0.33	0.0046	0.3	0.036	0.000058	0.000054	0.62	0.000042	20	0.014	0.0026	0.0056	1.4		
		August		216	0.87	65	31	0.10	34	0.3	12	0.036	0.33	0.0048	0.31	0.037	0.00006	0.000055	0.64	0.000043	20	0.015	0.0027	0.0058	1.4		
		September		175	0.49	43	31	0.084	22	0.3	12	0.035	0.33	0.0028													

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									9.1			
CCME (CEQG-PAL [chronic]) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.007			
Constituent				Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn		
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
Whale Tail Pit	Operations	January	2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		February		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		March		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		April		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		May		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		June		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		July		0.00022	0.0018	1.6	0.019	0.0000095	0.0011	0.0052	2.9	0.00018	0.000023	1.0	0.023	0.000019	0.00021	0.00069	0.0018	0.002		
		August		0.00021	0.0014	1.4	0.016	0.0000066	0.00049	0.005	1.6	0.00011	0.000021	0.78	0.016	0.000016	0.00015	0.00034	0.0015	0.0022		
		September		0.0002	0.0013	1.2	0.014	0.0000052	0.00021	0.0049	0.89	0.000069	0.00002	0.66	0.013	0.000015	0.00011	0.00017	0.0014	0.0019		
		October		0.00022	0.0013	1.5	0.013	0.000005	0.000076	0.0046	0.78	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000031	0.0013	0.0018		
		November		0.00022	0.0013	1.5	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000026	0.0013	0.0018		
		December		0.00022	0.0013	1.5	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000026	0.0013	0.0018		
		January	2019	0.00022	0.0013	1.5	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000026	0.0013	0.0018		
		February		0.00022	0.0013	1.5	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000026	0.0013	0.0018		
		March		0.00022	0.0013	1.5	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000026	0.0013	0.0018		
		April		0.00022	0.0013	1.5	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000026	0.0013	0.0018		
		May		0.0002	0.0013	1.2	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.00002	0.52	0.011	0.000015	0.00011	0.000026	0.0013	0.0018		
		June		0.0002	0.0013	1.2	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.00002	0.52	0.011	0.000015	0.00011	0.000026	0.0013	0.0018		
		July		0.0002	0.0013	1.2	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.00002	0.52	0.011	0.000015	0.00011	0.000026	0.0013	0.0018		
		August		0.0002	0.0013	1.2	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.00002	0.52	0.011	0.000015	0.00011	0.000026	0.0013	0.0018		
		September		0.0002	0.0013	1.2	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.00002	0.52	0.011	0.000015	0.00011	0.000026	0.0013	0.0018		
		October		0.0002	0.0013	1.2	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.00002	0.52	0.011	0.000015	0.00011	0.000026	0.0013	0.0018		
		November		0.0002	0.0013	1.2	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.00002	0.52	0.011	0.000015	0.00011	0.000026	0.0013	0.0018		
		December		0.0002	0.0013	1.2	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.00002	0.52	0.011	0.000015	0.00011	0.000026	0.0013	0.0018		
		January	2020	0.0002	0.0013	1.2	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.00002	0.52	0.011	0.000015	0.00011	0.000026	0.0013	0.0018		
		February		0.0002	0.0013	1.2	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.00002	0.52	0.011	0.000015	0.00011	0.000026	0.0013	0.0018		
		March		0.0002	0.0013	1.2	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.00002	0.52	0.011	0.000015	0.00011	0.000026	0.0013	0.0018		
		April		0.0002	0.0013	1.2	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.00002	0.52	0.011	0.000015	0.00011	0.000026	0.0013	0.0018		
		May		0.0002	0.0013	1.2	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.00002	0.52	0.011	0.000015	0.00011	0.000026	0.0013	0.0018		
		June		0.00022	0.0018	1.6	0.019	0.0000095	0.0011	0.0052	2.9	0.00018	0.000023	1.0	0.023	0.000019	0.00021	0.00069	0.0018	0.0027		
		July		0.0019	0.0079	12	0.22	0.00002	0.0096	0.012	8.2	0.002	0.000084	33	0.23	0.000034	0.0002	0.0031	0.004	0.0094		
		August		0.0018	0.0075	11	0.21	0.000019	0.0091	0.011	7.8	0.0019	0.00008	31	0.21	0.000033	0.00019	0.0029	0.0039	0.009		
		September		0.0012	0.0068	11	0.17	0.000012	0.0085	0.0091	5.4	0.0012	0.000055	25	0.2	0.000024	0.00014	0.0027	0.0027	0.0071		
		October		0.001	0.013	21	0.24	0.000007	0.018	0.0089	5.4	0.00075	0.000039	40	0.43	0.000018	0.00012	0.0054	0.0017	0.0098		
		November		0.00099	0.015	25	0.28	0.0000053	0.022	0.0089	5.5	0.00064	0.000034	46	0.52	0.000016	0.00011	0.0064	0.0014	0.011		
		December		0.00099	0.015	25	0.28	0.0000053	0.022	0.0089	5.5	0.00063	0.000034	46	0.52	0.000016	0.00011	0.0064	0.0014	0.011		
		January	2021	0.00077	0.011	19	0.2	0.000006	0.016	0.0078	4.2	0.00047	0.000032	33	0.37	0.000017	0.00013	0.0046	0.0015	0.0084		
		February		0.00065	0.0091	15	0.16	0.0000064	0.012	0.0072	3.4	0.00039	0.000031	26	0.3	0.000018	0.00014	0.0036	0.0015	0.0071		
		March		0.00064	0.009	15	0.16	0.0000064	0.012	0.0072	3.4	0.00038	0.000031	26	0.29	0.000018	0.00014	0.0035	0.0015	0.007		
		April		0.00064	0.009	15	0.16	0.0000064	0.012	0.0071	3.4	0.00038	0.000031	26	0.29	0.000018	0.00014	0.0035	0.0015	0.007		
		May		0.00064	0.009	15	0.16	0.0000064	0.012	0.0072	3.4	0.00038	0.000031	26	0.29	0.000018	0.00014	0.0035	0.0015	0.007		
		June		0.00064	0.0029	4.0	0.072	0.0000076	0.0027	0.0066	2.5	0.00054	0.000035	9.2	0.07	0.000018	0.00011	0.0009	0.0019	0.0036		
		July		0.0018	0.0048	6.3	0.18	0.000021	0.0047	0.012	7.4	0.0019	0.000084	23	0.11	0.000035	0.0002	0.0016	0.0041	0.0075		
		August		0.0019	0.0049	6.4	0.19	0.000021	0.0048	0.013	7.7	0.002	0.000086	23	0.11	0.000036	0.00021	0.0017	0.0042	0.0077		
		September		0.0012	0.004	5.5	0.13	0.000014	0.0041	0.0094	4.9	0.0012	0.000058	16	0.099	0.000026	0.00015	0.0014	0.0029	0.0055		
		October		0.00079	0.007	11	0.14	0.0000085	0.0088	0.0078	3.7	0.00062	0.000039	21	0.22	0.00002	0.00014	0.0027	0.0019	0.0063		
		November		0.00064	0.0086	14	0.15	0.0000066	0.011	0.0071	3.3	0.00039	0.000031	25	0.28	0.000018	0.00014	0.0034	0.0015	0.0068		
		December		0.00063	0.0088	14	0.15	0.0000064	0.012	0.0071	3.3	0.00038	0.000031	25	0.28	0.000018	0.00014	0.0034	0.0015	0.0069		
		January	2022	0.0006	0.0082	13	0.14	0.0000065	0.011	0.0069	3.1	0.00035	0.00003	23	0.26	0.000019	0.00014	0.0032	0.0015	0.0065		
		February		0.00058	0.008	13	0.14	0.0000066	0.01	0.0068	3.0	0.00034	0.00003	22	0.25	0.000019	0.00014	0.003	0.0015	0.0064		
		March		0.00058	0.0079	13	0.14	0.0000066	0.01	0.0068	3.0	0.00034	0.00003	22	0.25	0.000019	0.00014	0.003	0.0015	0.0063		
		April		0.00058	0.0079	13	0.14	0.0000066	0.01	0.0068	3.0	0.00034	0.00003	22	0.25	0.000019	0.00014	0.003	0.0015	0.0063		
		May		0.00058	0.0079	13	0.14	0.0000066	0.01	0.0068	3.0	0.00034	0.00003	22	0.25	0.000019	0.00014	0.003	0.0015	0.0063		
		June		0.00063	0.0027	3.6	0.068	0.0000077	0.0024	0.0067	2.5	0.00054	0.000035	8.5	0.062	0.000018	0.00011	0.00081	0.0019</			

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0
CCME (CEQG-PAL [chronic]) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004				0.002	0.3
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	Al ³⁺	Sb	As ³⁺	Ba	Be	Bi	B	Cd ⁵	Ca	Cr	Co	Cu ²⁺	Fe
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Pit	Closure	August	2022	42	0.1	12	14	0.045	6.0	0.042	0.089	0.019	0.33	0.00053	0.034	0.013	0.000029	0.000046	0.062	0.000013	6.3	0.0091	0.00079	0.0013	0.74
		September		34	0.052	8.5	13	0.042	4.2	0.041	0.069	0.018	0.33	0.00027	0.017	0.012	0.000027	0.000046	0.03	0.000011	5.4	0.0088	0.00069	0.0011	0.71
		October		34	0.047	8.5	13	0.042	4.1	0.04	0.068	0.018	0.33	0.00025	0.016	0.012	0.000027	0.000047	0.03	0.000011	5.4	0.0088	0.00069	0.0011	0.71
		November		36	0.049	8.8	14	0.044	4.3	0.041	0.068	0.019	0.33	0.00025	0.016	0.012	0.000027	0.000047	0.031	0.000012	5.6	0.0088	0.0007	0.0011	0.71
		December		37	0.05	9.1	14	0.045	4.4	0.042	0.069	0.02	0.33	0.00025	0.016	0.013	0.000028	0.000047	0.033	0.000012	5.8	0.0088	0.0007	0.0011	0.71
		January	2023	39	0.052	9.5	15	0.046	4.6	0.043	0.07	0.02	0.33	0.00025	0.016	0.013	0.000028	0.000047	0.034	0.000012	6.1	0.0088	0.00071	0.0011	0.71
		February		41	0.053	9.8	16	0.047	4.7	0.044	0.07	0.021	0.33	0.00025	0.016	0.014	0.000028	0.000047	0.036	0.000013	6.3	0.0088	0.00072	0.0012	0.71
		March		42	0.054	10	17	0.048	4.9	0.045	0.071	0.022	0.33	0.00025	0.016	0.014	0.000028	0.000047	0.037	0.000013	6.5	0.0088	0.00072	0.0012	0.71
		April		44	0.055	10	17	0.049	5.0	0.046	0.071	0.022	0.33	0.00026	0.016	0.014	0.000029	0.000048	0.039	0.000014	6.7	0.0088	0.00073	0.0012	0.71
		May		45	0.055	11	18	0.05	5.2	0.047	0.072	0.023	0.33	0.00026	0.016	0.015	0.000029	0.000048	0.04	0.000014	6.9	0.0088	0.00074	0.0012	0.71
		June		44	0.049	11	18	0.051	5.0	0.047	0.072	0.022	0.33	0.00024	0.015	0.015	0.00003	0.00005	0.039	0.000014	6.8	0.0088	0.00073	0.0012	0.71
		July		39	0.044	9.6	15	0.047	4.5	0.043	0.067	0.021	0.33	0.00023	0.013	0.013	0.000029	0.00005	0.034	0.000013	6.1	0.0088	0.00071	0.0012	0.71
		August		37	0.046	9.1	14	0.045	4.2	0.04	0.063	0.02	0.33	0.00022	0.013	0.013	0.000028	0.000049	0.032	0.000012	5.7	0.0088	0.0007	0.0011	0.71
		September		35	0.048	8.7	13	0.044	4.1	0.038	0.061	0.019	0.33	0.00022	0.013	0.012	0.000028	0.000049	0.03	0.000012	5.5	0.0088	0.0007	0.0011	0.71
		October		34	0.049	8.6	13	0.044	4.0	0.037	0.06	0.019	0.33	0.00022	0.013	0.012	0.000028	0.000048	0.03	0.000012	5.4	0.0088	0.0007	0.0011	0.71
		November		34	0.05	8.7	13	0.044	4.0	0.037	0.06	0.019	0.33	0.00022	0.013	0.012	0.000028	0.000048	0.03	0.000012	5.4	0.0088	0.0007	0.0011	0.71
		December		35	0.051	8.8	13	0.044	4.1	0.038	0.06	0.019	0.33	0.00022	0.013	0.012	0.000028	0.000048	0.03	0.000012	5.5	0.0088	0.0007	0.0011	0.71
		January	2024	35	0.051	8.8	13	0.045	4.1	0.038	0.06	0.019	0.33	0.00022	0.013	0.013	0.000028	0.000048	0.031	0.000012	5.5	0.0088	0.0007	0.0011	0.71
		February		36	0.052	8.9	14	0.045	4.1	0.038	0.06	0.02	0.33	0.00022	0.013	0.013	0.000028	0.000049	0.031	0.000012	5.6	0.0088	0.00071	0.0011	0.71
		March		36	0.053	9.0	14	0.045	4.2	0.038	0.06	0.02	0.33	0.00022	0.013	0.013	0.000028	0.000049	0.031	0.000012	5.6	0.0088	0.00071	0.0011	0.71
		April		36	0.053	9.1	14	0.045	4.2	0.038	0.06	0.02	0.33	0.00022	0.013	0.013	0.000028	0.000049	0.032	0.000012	5.7	0.0088	0.00071	0.0012	0.71
		May		37	0.054	9.1	14	0.046	4.2	0.039	0.061	0.02	0.33	0.00022	0.013	0.013	0.000028	0.000049	0.032	0.000012	5.7	0.0088	0.00071	0.0012	0.71
		June		36	0.054	9.1	14	0.046	4.2	0.038	0.06	0.02	0.33	0.00021	0.012	0.013	0.000028	0.000049	0.032	0.000012	5.7	0.0088	0.00071	0.0012	0.71
		July		34	0.054	8.7	13	0.045	4.0	0.036	0.057	0.019	0.33	0.00021	0.012	0.012	0.000028	0.000049	0.03	0.000012	5.4	0.0088	0.00071	0.0011	0.71
		August		33	0.054	8.5	12	0.044	3.9	0.034	0.054	0.019	0.33	0.00021	0.012	0.012	0.000028	0.000049	0.029	0.000011	5.2	0.0088	0.0007	0.0011	0.71
		September		32	0.055	8.2	12	0.043	3.7	0.033	0.052	0.019	0.33	0.0002	0.012	0.012	0.000028	0.000049	0.028	0.000011	5.1	0.0088	0.0007	0.0011	0.71
		October		31	0.055	8.1	12	0.042	3.7	0.032	0.051	0.018	0.33	0.0002	0.011	0.012	0.000027	0.000048	0.027	0.000011	5.0	0.0088	0.0007	0.0011	0.71
		November		31	0.055	8.2	12	0.043	3.7	0.032	0.051	0.018	0.33	0.0002	0.011	0.012	0.000027	0.000048	0.028	0.000011	5.0	0.0088	0.0007	0.0011	0.71
		December		31	0.056	8.2	12	0.043	3.7	0.032	0.051	0.019	0.33	0.0002	0.011	0.012	0.000027	0.000048	0.028	0.000011	5.0	0.0088	0.0007	0.0011	0.71
		January	2025	32	0.056	8.2	12	0.043	3.7	0.032	0.051	0.019	0.33	0.0002	0.011	0.012	0.000027	0.000048	0.028	0.000011	5.0	0.0088	0.0007	0.0011	0.71
		February		32	0.057	8.2	12	0.043	3.7	0.032	0.052	0.019	0.33	0.0002	0.012	0.012	0.000028	0.000048	0.028	0.000011	5.0	0.0088	0.0007	0.0011	0.71
		March		32	0.057	8.3	12	0.043	3.7	0.032	0.052	0.019	0.33	0.0002	0.012	0.012	0.000028	0.000048	0.028	0.000011	5.1	0.0088	0.0007	0.0011	0.71
		April		32	0.058	8.3	12	0.043	3.8	0.032	0.052	0.019	0.33	0.0002	0.012	0.012	0.000028	0.000049	0.028	0.000011	5.1	0.0088	0.0007	0.0011	0.71
		May		32	0.058	8.3	12	0.043	3.8	0.032	0.052	0.019	0.33	0.0002	0.012	0.012	0.000028	0.000049	0.028	0.000011	5.1	0.0088	0.0007	0.0011	0.71
		June		32	0.058	8.2	12	0.043	3.7	0.032	0.051	0.019	0.33	0.0002	0.011	0.012	0.000028	0.000049	0.028	0.000011	5.0	0.0088	0.0007	0.0011	0.71
		July		30	0.058	8.0	11	0.042	3.6	0.03	0.048	0.018	0.33	0.0002	0.011	0.012	0.000027	0.000049	0.027	0.000011	4.9	0.0088	0.0007	0.0011	0.71
		August		29	0.058	7.9	11	0.042	3.5	0.029	0.047	0.018	0.33	0.0002	0.011	0.011	0.000027	0.000049	0.026	0.000011	4.8	0.0088	0.00069	0.0011	0.71
		September		29	0.059	7.8	10	0.041	3.5	0.028	0.045	0.018	0.33	0.00019	0.011	0.011	0.000027	0.000049	0.026	0.000011	4.7	0.0088	0.00069	0.0011	0.71
		October		29	0.06	7.7	10	0.041	3.4	0.028	0.045	0.018	0.33	0.00019	0.011	0.011	0.000027	0.000049	0.025	0.00001	4.6	0.0088	0.00069	0.0011	0.71
		November		29	0.06	7.7	10	0.041	3.4	0.028	0.045	0.018	0.33	0.00019	0.011	0.011	0.000027	0.000049	0.025	0.00001	4.6	0.0088			

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)																			0.05				0.004		0.25										0.1
CCME (CEQG-PAL [chronic]) ² (mg/L)																			0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015		0.007
Constituent				Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Ti ⁶	Sn	U	V	Zn															
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L															
Whale Tail Pit	Closure	August	2022	0.00031	0.002	2.6	0.039	0.0000053	0.0014	0.0054	1.4	0.0002	0.000024	4.0	0.044	0.000015	0.0001	0.00049	0.0015	0.0024															
		September		0.00023	0.0019	2.3	0.031	0.0000045	0.0012	0.005	0.99	0.000098	0.000021	2.9	0.04	0.000014	0.000095	0.00041	0.0013	0.0022															
		October		0.00023	0.0019	2.3	0.031	0.0000045	0.0012	0.005	0.96	0.000095	0.000021	2.9	0.04	0.000014	0.000095	0.00041	0.0013	0.0022															
		November		0.00023	0.0019	2.4	0.033	0.0000045	0.0013	0.005	0.99	0.000098	0.000021	3.1	0.042	0.000014	0.000095	0.00044	0.0013	0.0022															
		December		0.00024	0.002	2.5	0.034	0.0000045	0.0014	0.0051	1.0	0.0001	0.000021	3.3	0.044	0.000014	0.000096	0.00046	0.0013	0.0022															
		January	2023	0.00024	0.002	2.6	0.036	0.0000045	0.0015	0.0051	1.0	0.0001	0.000021	3.5	0.046	0.000014	0.000096	0.00049	0.0013	0.0023															
		February		0.00024	0.0021	2.7	0.037	0.0000045	0.0016	0.0051	1.0	0.00011	0.000021	3.6	0.047	0.000014	0.000096	0.00051	0.0013	0.0023															
		March		0.00025	0.0021	2.8	0.039	0.0000045	0.0016	0.0052	1.1	0.00011	0.000021	3.8	0.049	0.000014	0.000096	0.00054	0.0013	0.0023															
		April		0.00025	0.0022	2.9	0.04	0.0000045	0.0017	0.0052	1.1	0.00011	0.000021	4.0	0.051	0.000014	0.000096	0.00056	0.0013	0.0024															
		May		0.00025	0.0022	3.0	0.041	0.0000045	0.0018	0.0052	1.1	0.00011	0.000021	4.2	0.053	0.000014	0.000096	0.00059	0.0013	0.0024															
		June		0.00025	0.0022	2.9	0.039	0.0000048	0.0017	0.0052	1.1	0.00011	0.000021	4.0	0.052	0.000015	0.0001	0.00056	0.0013	0.0024															
		July		0.00024	0.0021	2.6	0.035	0.0000047	0.0015	0.0051	1.0	0.0001	0.000021	3.5	0.046	0.000015	0.0001	0.00049	0.0013	0.0023															
		August		0.00024	0.002	2.5	0.034	0.0000047	0.0014	0.0051	0.98	0.000097	0.000021	3.2	0.043	0.000015	0.00010	0.00045	0.0013	0.0023															
		September		0.00023	0.0019	2.4	0.033	0.0000047	0.0013	0.0051	0.95	0.000094	0.000021	3.0	0.041	0.000015	0.000099	0.00043	0.0013	0.0022															
		October		0.00023	0.0019	2.4	0.033	0.0000047	0.0012	0.0051	0.94	0.000093	0.000021	3.0	0.04	0.000015	0.000099	0.00042	0.0013	0.0022															
		November		0.00023	0.0019	2.4	0.034	0.0000047	0.0013	0.0051	0.95	0.000093	0.000021	3.0	0.041	0.000015	0.000099	0.00042	0.0013	0.0022															
		December		0.00023	0.0019	2.4	0.034	0.0000047	0.0013	0.0051	0.95	0.000094	0.000021	3.0	0.041	0.000015	0.000099	0.00043	0.0013	0.0022															
		January	2024	0.00024	0.0019	2.4	0.035	0.0000047	0.0013	0.0051	0.96	0.000094	0.000021	3.1	0.041	0.000015	0.000099	0.00044	0.0013	0.0022															
		February		0.00024	0.0019	2.4	0.035	0.0000047	0.0013	0.0052	0.96	0.000095	0.000021	3.1	0.042	0.000015	0.000099	0.00044	0.0013	0.0022															
		March		0.00024	0.002	2.5	0.036	0.0000047	0.0013	0.0052	0.97	0.000096	0.000021	3.2	0.042	0.000015	0.000099	0.00045	0.0013	0.0022															
		April		0.00024	0.002	2.5	0.036	0.0000047	0.0013	0.0052	0.97	0.000096	0.000021	3.2	0.043	0.000015	0.000099	0.00045	0.0013	0.0023															
		May		0.00024	0.002	2.5	0.036	0.0000047	0.0014	0.0052	0.98	0.000097	0.000021	3.2	0.043	0.000015	0.000099	0.00046	0.0013	0.0023															
		June		0.00024	0.002	2.5	0.036	0.0000047	0.0013	0.0052	0.97	0.000096	0.000021	3.2	0.043	0.000015	0.0001	0.00045	0.0013	0.0023															
		July		0.00024	0.0019	2.4	0.035	0.0000047	0.0012	0.0052	0.94	0.000093	0.000021	3.0	0.04	0.000015	0.0001	0.00042	0.0013	0.0022															
		August		0.00023	0.0019	2.3	0.034	0.0000047	0.0012	0.0052	0.93	0.000091	0.000021	2.9	0.039	0.000015	0.0001	0.0004	0.0013	0.0022															
		September		0.00023	0.0018	2.2	0.034	0.0000047	0.0011	0.0052	0.91	0.000089	0.000021	2.7	0.037	0.000015	0.0001	0.00039	0.0013	0.0022															
		October		0.00023	0.0018	2.2	0.034	0.0000047	0.0011	0.0052	0.9	0.000089	0.000021	2.7	0.037	0.000015	0.0001	0.00038	0.0013	0.0022															
		November		0.00023	0.0018	2.2	0.034	0.0000047	0.0011	0.0052	0.9	0.000089	0.000021	2.7	0.037	0.000015	0.0001	0.00038	0.0013	0.0022															
		December		0.00023	0.0018	2.2	0.034	0.0000047	0.0011	0.0052	0.91	0.000089	0.000021	2.7	0.037	0.000015	0.0001	0.00038	0.0013	0.0022															
		January	2025	0.00023	0.0018	2.2	0.034	0.0000047	0.0011	0.0052	0.91	0.000089	0.000021	2.7	0.037	0.000015	0.0001	0.00038	0.0013	0.0022															
		February		0.00023	0.0018	2.2	0.034	0.0000047	0.0011	0.0052	0.91	0.000089	0.000021	2.7	0.037	0.000015	0.0001	0.00039	0.0013	0.0022															
		March		0.00023	0.0018	2.2	0.035	0.0000047	0.0011	0.0052	0.91	0.00009	0.000021	2.7	0.038	0.000015	0.0001	0.00039	0.0013	0.0022															
		April		0.00023	0.0018	2.2	0.035	0.0000047	0.0011	0.0052	0.91	0.00009	0.000021	2.8	0.038	0.000015	0.0001	0.00039	0.0013	0.0022															
		May		0.00023	0.0018	2.2	0.035	0.0000047	0.0011	0.0052	0.92	0.00009	0.000021	2.8	0.038	0.000015	0.0001	0.00039	0.0013	0.0022															
		June		0.00023	0.0018	2.2	0.035	0.0000048	0.0011	0.0052	0.91	0.00009	0.000021	2.7	0.037	0.000015	0.0001	0.00038	0.0013	0.0022															
		July		0.00023	0.0018	2.1	0.034	0.0000048	0.0011	0.0052	0.89	0.000088	0.000021	2.6	0.036	0.000015	0.0001	0.00037	0.0013	0.0022															
		August		0.00023	0.0018	2.1	0.033	0.0000048	0.001	0.0052	0.88	0.000087	0.000021	2.5	0.035	0.000015	0.0001	0.00035	0.0013	0.0021															
		September		0.00023	0.0018	2.1	0.033	0.0000048	0.00098	0.0052	0.88	0.000086	0.000021	2.4	0.034	0.000015	0.0001	0.00035	0.0013	0.0021															
		October		0.00023	0.0017	2.0	0.033	0.0000048	0.00096	0.0052	0.87	0.000085	0.000021	2.4	0.034	0.000015	0.0001	0.00034	0.0013	0.0021															
		November		0.00023	0.0017	2.0	0.033	0.0000048	0.00096	0.0052	0.87	0.000085	0.000021	2.4	0.034	0.000015	0.0001	0.00034	0.0013	0.0021															
		December		0.00023	0.0017	2.0	0.033	0.0000048	0.00096	0.0052	0.87	0.000086	0.000021	2.4	0.034	0.000015	0.0001	0.00034	0.0013	0.0021															
		January	2026	0.00023	0.0017	2.0	0.033	0.0000048	0.00096	0.0052	0.88	0.000086	0.000021	2.4	0.034	0.000015	0.0001	0.00034	0.0013	0.0021															
		February		0.00023	0.0017	2.0	0.034	0.0000048	0.00096	0.0052	0.88	0.000086	0.000021	2.4	0.034	0.000015	0.0001	0.00034	0.0013	0.0021															
		March		0.00023	0.0017	2.0	0.034	0.0000048	0.00097	0.0052	0.88	0.000086	0.000021	2.4	0.034	0.000015	0.0001	0.00034	0.0013	0.0021															
		April		0.00023	0.0017	2.0	0.034	0.0000048	0.00097	0.0052	0.88	0.000086	0.000021	2.4	0.034	0.000015	0.0001	0.00034	0.0013	0.0021															
		May		0.00023	0.0017	2.0	0.034	0.0000048	0.00097	0.0052	0.88	0.000086	0.000021	2.4	0.034	0.000015	0.0001	0.00034	0.0013	0.0021															
		June		0.00022	0.0017	2.0	0.033	0.0000047	0.00091	0.0052	0.85	0.000083	0.000021	2.3	0.032	0.000015	0.00010	0.00032	0.0013	0.0021															
		July		0.00023	0.0017	2.0	0.033	0.0000049	0.00089	0.0052	0.86	0.000084	0.000021	2.3	0.032	0.000015	0.0001	0.00032	0.0013	0.0021															
		August		0.00023	0.0017	2.0	0.033	0.0000049	0.00088	0.0052	0.87	0.000085	0.000021	2.2	0.032	0.000015	0.0001	0.00032	0.0013	0.0021															
		September		0.00023	0.0017	1.9	0.033	0.0000049	0.00087	0.0052	0.87	0.000084	0.000021	2.2	0.032	0.000015	0.0001	0.00032	0.0013	0.0021															
		October		0.00023	0.0017	1.9	0.033	0.0000049	0.00086	0.0052	0																								

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0
CCME (CEQG-PAL (chronic)) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004				0.002	0.3
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	Al ⁺	Sb	As ⁺	Ba	Be	Bi	B	Cd ⁵	Ca	Cr	Co	Cu ⁺	Fe
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Pit	Post-Closure, fully flooded pit	July	2027	25	0.067	7.2	8.8	0.038	3.1	0.023	0.039	0.0077	0.022	0.00017	0.0064	0.0078	0.000021	0.000048	0.023	0.0000083	4.0	0.00073	0.00021	0.00065	0.075
		August		24	0.066	7.2	8.6	0.038	3.1	0.023	0.038	0.0076	0.022	0.00017	0.0064	0.0077	0.000021	0.000048	0.022	0.0000082	3.9	0.00073	0.00021	0.00065	0.075
		September		24	0.064	7.1	8.4	0.038	3.0	0.022	0.037	0.0075	0.022	0.00017	0.0062	0.0076	0.000021	0.000048	0.022	0.0000081	3.9	0.00073	0.0002	0.00065	0.075
		October		24	0.063	7.1	8.3	0.037	3.0	0.022	0.036	0.0074	0.022	0.00017	0.0061	0.0076	0.000021	0.000048	0.022	0.0000081	3.8	0.00073	0.0002	0.00065	0.075
		November		24	0.063	7.1	8.3	0.037	3.0	0.022	0.036	0.0074	0.022	0.00017	0.0061	0.0076	0.000021	0.000048	0.022	0.0000081	3.8	0.00073	0.0002	0.00065	0.075
		December		24	0.063	7.1	8.3	0.037	3.0	0.022	0.036	0.0074	0.022	0.00017	0.0061	0.0076	0.000021	0.000048	0.022	0.0000081	3.8	0.00073	0.0002	0.00065	0.075
		January	2028	24	0.063	7.1	8.3	0.037	3.0	0.022	0.036	0.0074	0.022	0.00017	0.0061	0.0076	0.000021	0.000048	0.022	0.0000081	3.8	0.00073	0.0002	0.00065	0.075
		February		24	0.063	7.1	8.3	0.037	3.0	0.022	0.036	0.0074	0.022	0.00017	0.0061	0.0076	0.000021	0.000048	0.022	0.0000081	3.8	0.00073	0.0002	0.00065	0.075
		March		24	0.063	7.1	8.3	0.037	3.0	0.022	0.036	0.0074	0.022	0.00017	0.0061	0.0076	0.000021	0.000048	0.022	0.0000081	3.8	0.00073	0.0002	0.00065	0.075
		April		24	0.063	7.1	8.3	0.037	3.0	0.022	0.036	0.0074	0.022	0.00017	0.0061	0.0076	0.000021	0.000048	0.022	0.0000081	3.8	0.00073	0.0002	0.00065	0.075
		May		24	0.063	7.1	8.3	0.037	3.0	0.022	0.036	0.0074	0.022	0.00017	0.0061	0.0076	0.000021	0.000048	0.022	0.0000081	3.8	0.00073	0.0002	0.00065	0.075
		June		23	0.06	7.0	8.0	0.037	2.9	0.021	0.035	0.0072	0.022	0.00017	0.0058	0.0075	0.000021	0.000048	0.021	0.0000079	3.8	0.00073	0.0002	0.00065	0.075
		July		22	0.057	6.9	7.7	0.037	2.8	0.02	0.033	0.0069	0.022	0.00016	0.0055	0.0073	0.000021	0.000049	0.021	0.0000078	3.7	0.00073	0.0002	0.00065	0.075
		August		22	0.055	6.8	7.6	0.037	2.8	0.02	0.033	0.0068	0.022	0.00016	0.0055	0.0072	0.000021	0.000049	0.02	0.0000077	3.6	0.00073	0.0002	0.00065	0.075
		September		22	0.054	6.8	7.4	0.036	2.8	0.02	0.032	0.0067	0.022	0.00016	0.0054	0.0072	0.000021	0.000049	0.02	0.0000077	3.6	0.00073	0.00019	0.00065	0.075
		October		22	0.053	6.7	7.3	0.036	2.8	0.019	0.031	0.0066	0.022	0.00016	0.0053	0.0071	0.000021	0.000049	0.02	0.0000076	3.5	0.00073	0.00019	0.00064	0.075
		November		22	0.053	6.7	7.3	0.036	2.8	0.019	0.031	0.0066	0.022	0.00016	0.0053	0.0071	0.000021	0.000049	0.02	0.0000076	3.5	0.00073	0.00019	0.00064	0.075
		December		22	0.053	6.7	7.3	0.036	2.8	0.019	0.031	0.0066	0.022	0.00016	0.0053	0.0071	0.000021	0.000049	0.02	0.0000076	3.5	0.00073	0.00019	0.00064	0.075
		January	2029	22	0.053	6.7	7.3	0.036	2.8	0.019	0.031	0.0066	0.022	0.00016	0.0053	0.0071	0.000021	0.000049	0.02	0.0000076	3.5	0.00073	0.00019	0.00064	0.075
		February		22	0.053	6.7	7.3	0.036	2.8	0.019	0.031	0.0066	0.022	0.00016	0.0053	0.0071	0.000021	0.000049	0.02	0.0000076	3.5	0.00073	0.00019	0.00064	0.075
		March		22	0.053	6.7	7.3	0.036	2.8	0.019	0.031	0.0066	0.022	0.00016	0.0053	0.0071	0.000021	0.000049	0.02	0.0000076	3.5	0.00073	0.00019	0.00064	0.075
		April		22	0.053	6.7	7.3	0.036	2.8	0.019	0.031	0.0066	0.022	0.00016	0.0053	0.0071	0.000021	0.000049	0.02	0.0000076	3.5	0.00073	0.00019	0.00064	0.075
		May		22	0.053	6.7	7.3	0.036	2.8	0.019	0.031	0.0066	0.022	0.00016	0.0053	0.0071	0.000021	0.000049	0.02	0.0000076	3.5	0.00073	0.00019	0.00064	0.075
		June		21	0.05	6.6	7.1	0.036	2.7	0.019	0.03	0.0064	0.022	0.00016	0.0051	0.007	0.000021	0.00005	0.019	0.0000075	3.5	0.00073	0.00019	0.00064	0.075
		July		20	0.047	6.5	6.8	0.036	2.6	0.018	0.028	0.0062	0.022	0.00016	0.0048	0.0069	0.000021	0.00005	0.019	0.0000074	3.4	0.00073	0.00019	0.00064	0.075
		August		20	0.046	6.5	6.7	0.035	2.6	0.018	0.028	0.0061	0.022	0.00016	0.0048	0.0068	0.000022	0.00005	0.019	0.0000073	3.4	0.00073	0.00019	0.00064	0.075
		September		20	0.045	6.5	6.6	0.035	2.6	0.017	0.027	0.006	0.022	0.00015	0.0047	0.0067	0.000022	0.00005	0.018	0.0000073	3.3	0.00072	0.00018	0.00064	0.075
		October		20	0.044	6.4	6.5	0.035	2.5	0.017	0.027	0.0059	0.022	0.00015	0.0046	0.0067	0.000022	0.00005	0.018	0.0000072	3.3	0.00072	0.00018	0.00064	0.075
		November		20	0.044	6.4	6.5	0.035	2.5	0.017	0.027	0.0059	0.022	0.00015	0.0046	0.0067	0.000022	0.00005	0.018	0.0000072	3.3	0.00072	0.00018	0.00064	0.075
		December		20	0.044	6.4	6.5	0.035	2.5	0.017	0.027	0.0059	0.022	0.00015	0.0046	0.0067	0.000022	0.00005	0.018	0.0000072	3.3	0.00072	0.00018	0.00064	0.075
		January	2030	20	0.044	6.4	6.5	0.035	2.5	0.017	0.027	0.0059	0.022	0.00015	0.0046	0.0067	0.000022	0.00005	0.018	0.0000072	3.3	0.00072	0.00018	0.00064	0.075
		February		20	0.044	6.4	6.5	0.035	2.5	0.017	0.027	0.0059	0.022	0.00015	0.0046	0.0067	0.000022	0.00005	0.018	0.0000072	3.3	0.00072	0.00018	0.00064	0.075
		March		20	0.044	6.4	6.5	0.035	2.5	0.017	0.027	0.0059	0.022	0.00015	0.0046	0.0067	0.000022	0.00005	0.018	0.0000072	3.3	0.00072	0.00018	0.00064	0.075
		April		20	0.044	6.4	6.5	0.035	2.5	0.017	0.027	0.0059	0.022	0.00015	0.0046	0.0067	0.000022	0.00005	0.018	0.0000072	3.3	0.00072	0.00018	0.00064	0.075
		May		20	0.044	6.4	6.5	0.035	2.5	0.017	0.027	0.0059	0.022	0.00015	0.0046	0.0067	0.000022	0.00005	0.018	0.0000072	3.3	0.00072	0.00018	0.00064	0.075
		June		19	0.042	6.4	6.3	0.035	2.5	0.017	0.026	0.0058	0.022	0.00015	0.0044	0.0066	0.000022	0.00005	0.018	0.0000072	3.3	0.00072	0.00018	0.00064	0.075
		July		19	0.039	6.3	6.1	0.035	2.4	0.016	0.024	0.0056	0.022	0.00015	0.0042	0.0065	0.000022	0.000051	0.017	0.0000071	3.2	0.00072	0.00018	0.00064	0.075
		August		19	0.038	6.2	6.0	0.035	2.4	0.016	0.024	0.0055	0.022	0.0001											

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1		
CCME (CEQG-PAL [chronic]) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.007		
LOCATION	Time Period	Month	Year	Constituent mg/L	Pb ⁶ mg/L	Li mg/L	Mg mg/L	Mn mg/L	Hg mg/L	Mo mg/L	Ni ⁶ mg/L	K mg/L	Se mg/L	Ag mg/L	Na mg/L	Sr mg/L	Tl mg/L	Sn mg/L	U mg/L	V mg/L	Zn mg/L
Whale Tail Pit	Post-Closure, fully flooded pit	July	2027	0.0001	0.0014	1.5	0.021	0.000005	0.00078	0.0015	0.7	0.000078	0.000011	2.1	0.029	0.0000099	0.000098	0.00028	0.00055	0.0014	
		August		0.0001	0.0014	1.5	0.02	0.000005	0.00077	0.0014	0.69	0.000078	0.000011	2.0	0.029	0.000010	0.000099	0.00028	0.00056	0.0014	
		September		0.000099	0.0014	1.5	0.02	0.000005	0.00074	0.0014	0.68	0.000077	0.000011	2.0	0.028	0.00001	0.000099	0.00027	0.00056	0.0014	
		October		0.000099	0.0014	1.5	0.019	0.000005	0.00073	0.0014	0.68	0.000076	0.000011	2.0	0.028	0.00001	0.000099	0.00027	0.00056	0.0014	
		November		0.000099	0.0014	1.5	0.019	0.000005	0.00073	0.0014	0.68	0.000076	0.000011	2.0	0.028	0.00001	0.000099	0.00027	0.00056	0.0014	
		December		0.000099	0.0014	1.5	0.019	0.000005	0.00073	0.0014	0.68	0.000076	0.000011	2.0	0.028	0.00001	0.000099	0.00027	0.00056	0.0014	
		January	2028	0.000099	0.0014	1.5	0.019	0.000005	0.00073	0.0014	0.68	0.000076	0.000011	2.0	0.028	0.00001	0.000099	0.00027	0.00056	0.0014	
		February		0.000099	0.0014	1.5	0.019	0.000005	0.00073	0.0014	0.68	0.000076	0.000011	2.0	0.028	0.00001	0.000099	0.00027	0.00056	0.0014	
		March		0.000099	0.0014	1.5	0.019	0.000005	0.00073	0.0014	0.68	0.000076	0.000011	2.0	0.028	0.00001	0.000099	0.00027	0.00056	0.0014	
		April		0.000099	0.0014	1.5	0.019	0.000005	0.00073	0.0014	0.68	0.000076	0.000011	2.0	0.028	0.00001	0.000099	0.00027	0.00056	0.0014	
		May		0.000099	0.0014	1.5	0.019	0.000005	0.00073	0.0014	0.68	0.000076	0.000011	2.0	0.028	0.00001	0.000099	0.00027	0.00056	0.0014	
		June		0.000098	0.0014	1.4	0.018	0.000005	0.0007	0.0014	0.67	0.000075	0.000011	1.9	0.027	0.00001	0.00010	0.00026	0.00056	0.0014	
		July		0.000096	0.0014	1.4	0.017	0.0000051	0.00066	0.0014	0.66	0.000074	0.000011	1.8	0.027	0.00001	0.0001	0.00024	0.00056	0.0014	
		August		0.000096	0.0014	1.4	0.017	0.0000051	0.00064	0.0014	0.65	0.000074	0.000011	1.8	0.026	0.00001	0.0001	0.00024	0.00056	0.0014	
		September		0.000095	0.0013	1.4	0.017	0.0000051	0.00062	0.0014	0.65	0.000073	0.000011	1.7	0.026	0.00001	0.0001	0.00023	0.00057	0.0014	
		October		0.000095	0.0013	1.3	0.016	0.0000051	0.00061	0.0014	0.64	0.000073	0.000011	1.7	0.026	0.00001	0.0001	0.00023	0.00057	0.0014	
		November		0.000095	0.0013	1.3	0.016	0.0000051	0.00061	0.0014	0.64	0.000073	0.000011	1.7	0.026	0.00001	0.0001	0.00023	0.00057	0.0014	
		December		0.000095	0.0013	1.3	0.016	0.0000051	0.00061	0.0014	0.64	0.000073	0.000011	1.7	0.026	0.00001	0.0001	0.00023	0.00057	0.0014	
		January	2029	0.000095	0.0013	1.3	0.016	0.0000051	0.00061	0.0014	0.64	0.000073	0.000011	1.7	0.026	0.00001	0.0001	0.00023	0.00057	0.0014	
		February		0.000095	0.0013	1.3	0.016	0.0000051	0.00061	0.0014	0.64	0.000073	0.000011	1.7	0.026	0.00001	0.0001	0.00023	0.00057	0.0014	
		March		0.000095	0.0013	1.3	0.016	0.0000051	0.00061	0.0014	0.64	0.000073	0.000011	1.7	0.026	0.00001	0.0001	0.00023	0.00057	0.0014	
		April		0.000095	0.0013	1.3	0.016	0.0000051	0.00061	0.0014	0.64	0.000073	0.000011	1.7	0.026	0.00001	0.0001	0.00023	0.00057	0.0014	
		May		0.000095	0.0013	1.3	0.016	0.0000051	0.00061	0.0014	0.64	0.000073	0.000011	1.7	0.026	0.00001	0.0001	0.00023	0.00057	0.0014	
		June		0.000094	0.0013	1.3	0.016	0.0000051	0.00058	0.0013	0.63	0.000072	0.000011	1.7	0.025	0.00001	0.0001	0.00022	0.00057	0.0014	
		July		0.000093	0.0013	1.3	0.015	0.0000051	0.00055	0.0013	0.62	0.000071	0.000011	1.6	0.024	0.00001	0.0001	0.00021	0.00057	0.0014	
		August		0.000092	0.0013	1.3	0.014	0.0000052	0.00053	0.0013	0.62	0.000071	0.000011	1.6	0.024	0.00001	0.0001	0.0002	0.00057	0.0014	
		September		0.000092	0.0013	1.3	0.014	0.0000052	0.00052	0.0013	0.62	0.00007	0.000011	1.5	0.024	0.00001	0.0001	0.0002	0.00057	0.0014	
		October		0.000091	0.0013	1.3	0.014	0.0000052	0.00051	0.0013	0.61	0.00007	0.000011	1.5	0.024	0.00001	0.0001	0.0002	0.00057	0.0014	
		November		0.000091	0.0013	1.3	0.014	0.0000052	0.00051	0.0013	0.61	0.00007	0.000011	1.5	0.024	0.00001	0.0001	0.0002	0.00057	0.0014	
		December		0.000091	0.0013	1.3	0.014	0.0000052	0.00051	0.0013	0.61	0.00007	0.000011	1.5	0.024	0.00001	0.0001	0.0002	0.00057	0.0014	
		January	2030	0.000091	0.0013	1.3	0.014	0.0000052	0.00051	0.0013	0.61	0.00007	0.000011	1.5	0.024	0.00001	0.0001	0.0002	0.00057	0.0014	
		February		0.000091	0.0013	1.3	0.014	0.0000052	0.00051	0.0013	0.61	0.00007	0.000011	1.5	0.024	0.00001	0.0001	0.0002	0.00057	0.0014	
		March		0.000091	0.0013	1.3	0.014	0.0000052	0.00051	0.0013	0.61	0.00007	0.000011	1.5	0.024	0.00001	0.0001	0.0002	0.00057	0.0014	
		April		0.000091	0.0013	1.3	0.014	0.0000052	0.00051	0.0013	0.61	0.00007	0.000011	1.5	0.024	0.00001	0.0001	0.0002	0.00057	0.0014	
		May		0.000091	0.0013	1.3	0.014	0.0000052	0.00051	0.0013	0.61	0.00007	0.000011	1.5	0.024	0.00001	0.0001	0.0002	0.00057	0.0014	
		June		0.000091	0.0013	1.2	0.013	0.0000052	0.00049	0.0013	0.6	0.000069	0.000011	1.5	0.023	0.00001	0.0001	0.00019	0.00057	0.0014	
		July		0.00009	0.0013	1.2	0.013	0.0000052	0.00046	0.0013	0.6	0.000068	0.000011	1.4	0.023	0.000011	0.0001	0.00018	0.00058	0.0014	
		August		0.000089	0.0013	1.2	0.012	0.0000052	0.00045	0.0013	0.59	0.000068	0.000011	1.4	0.022	0.000011	0.0001	0.00018	0.00058	0.0014	
		September		0.000089	0.0013	1.2	0.012	0.0000052	0.00043	0.0013	0.59	0.000067	0.000011	1.4	0.022	0.000011	0.0001	0.00017	0.00058	0.0014	
		October		0.000088	0.0013	1.2	0.012	0.0000052	0.00043	0.0013	0.59	0.000067	0.000011	1.4	0.022	0.000011	0.0001	0.00017	0.00058	0.0014	
		November		0.000088	0.0013	1.2	0.012	0.0000052	0.00043	0.0013	0.59	0.000067	0.000011	1.4	0.022	0.000011	0.0001	0.00017	0.00058	0.0014	
		December		0.000088	0.0013	1.2	0.012	0.0000052	0.00043	0.0013	0.59	0.000067	0.000011	1.4	0.022	0.000011	0.0001	0.00017	0.00058	0.0014	
		January	2031	0.000088	0.0013	1.2	0.012	0.0000052	0.00043	0.0013	0.59	0.000067	0.000011	1.4	0.022	0.000011	0.0001	0.00017	0.00058	0.0014	
		February		0.000088	0.0013	1.2	0.012	0.0000052	0.00043	0.0013	0.59	0.000067	0.000011	1.4	0.022	0.000011	0.0001	0.00017	0.00058	0.0014	
		March		0.000088	0.0013	1.2	0.012	0.0000052	0.00043	0.0013	0.59	0.000067	0.000011	1.4	0.022	0.000011	0.0001	0.00017	0.00058	0.0014	
		April		0.000088	0.0013	1.2	0.012	0.0000052	0.00043	0.0013	0.59	0.000067	0.000011	1.4	0.022	0.000011	0.0001	0.00017	0.00058	0.0014	
		May		0.000088	0.0013	1.2	0.012	0.0000052	0.00043	0.0013	0.59	0.000067	0.000011	1.4	0.022	0.000011	0.0001	0.00017	0.00058	0.0014	
		June		0.000088	0.0013	1.2	0.011	0.0000052	0.00041	0.0012	0.58	0.000067	0.000011	1.3	0.022	0.000011	0.0001	0.00016	0.00058	0.0014	
		July		0.000087	0.0012	1.1	0.011	0.0000053	0.00038	0.0012	0.57	0.000066	0.000011	1.3	0.021	0.000011	0.00011	0.00016	0.00058	0.0014	
		August		0.000087	0.0012	1.1	0.011	0.0000053	0.00038	0.0012	0.57	0.000066	0.000011	</							

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0
CCME (CEQG-PAL [chronic]) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004			0.002	0.3	
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	Al ³	Sb	As ³	Ba	Be	Bi	B	Cd ⁴	Ca	Cr	Co	Cu ²	Fe
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Pit	Post-Closure, fully flooded pit	January	2033	16	0.025	5.8	4.8	0.033	2.1	0.012	0.017	0.0046	0.022	0.00014	0.0032	0.0059	0.000022	0.000052	0.015	0.0000065	2.8	0.00072	0.00017	0.00063	0.075
		February		16	0.025	5.8	4.8	0.033	2.1	0.012	0.017	0.0046	0.022	0.00014	0.0032	0.0059	0.000022	0.000052	0.015	0.0000065	2.8	0.00072	0.00017	0.00063	0.075
		March		16	0.025	5.8	4.8	0.033	2.1	0.012	0.017	0.0046	0.022	0.00014	0.0032	0.0059	0.000022	0.000052	0.015	0.0000065	2.8	0.00072	0.00017	0.00063	0.075
		April		16	0.025	5.8	4.8	0.033	2.1	0.012	0.017	0.0046	0.022	0.00014	0.0032	0.0059	0.000022	0.000052	0.015	0.0000065	2.8	0.00072	0.00017	0.00063	0.075
		May		16	0.025	5.8	4.8	0.033	2.1	0.012	0.017	0.0046	0.022	0.00014	0.0032	0.0059	0.000022	0.000052	0.015	0.0000065	2.8	0.00072	0.00017	0.00063	0.075
		June		16	0.024	5.8	4.7	0.033	2.1	0.012	0.017	0.0045	0.022	0.00014	0.0031	0.0058	0.000022	0.000052	0.015	0.0000064	2.8	0.00072	0.00016	0.00063	0.075
		July		16	0.023	5.7	4.5	0.033	2.0	0.012	0.016	0.0044	0.022	0.00014	0.003	0.0058	0.000022	0.000053	0.014	0.0000064	2.8	0.00072	0.00016	0.00063	0.075
		August		15	0.022	5.7	4.5	0.033	2.0	0.011	0.016	0.0043	0.022	0.00014	0.003	0.0058	0.000022	0.000053	0.014	0.0000064	2.8	0.00072	0.00016	0.00063	0.075
		September		15	0.022	5.7	4.4	0.033	2.0	0.011	0.016	0.0043	0.022	0.00014	0.0029	0.0057	0.000022	0.000053	0.014	0.0000063	2.7	0.00072	0.00016	0.00063	0.075
		October		15	0.021	5.7	4.4	0.033	2.0	0.011	0.015	0.0043	0.022	0.00014	0.0029	0.0057	0.000022	0.000053	0.014	0.0000063	2.7	0.00072	0.00016	0.00063	0.075
		November		15	0.021	5.7	4.4	0.033	2.0	0.011	0.015	0.0043	0.022	0.00014	0.0029	0.0057	0.000022	0.000053	0.014	0.0000063	2.7	0.00072	0.00016	0.00063	0.075
		December		15	0.021	5.7	4.4	0.033	2.0	0.011	0.015	0.0043	0.022	0.00014	0.0029	0.0057	0.000022	0.000053	0.014	0.0000063	2.7	0.00072	0.00016	0.00063	0.075
		January	2034	15	0.021	5.7	4.4	0.033	2.0	0.011	0.015	0.0043	0.022	0.00014	0.0029	0.0057	0.000022	0.000053	0.014	0.0000063	2.7	0.00072	0.00016	0.00063	0.075
		February		15	0.021	5.7	4.4	0.033	2.0	0.011	0.015	0.0043	0.022	0.00014	0.0029	0.0057	0.000022	0.000053	0.014	0.0000063	2.7	0.00072	0.00016	0.00063	0.075
		March		15	0.021	5.7	4.4	0.033	2.0	0.011	0.015	0.0043	0.022	0.00014	0.0029	0.0057	0.000022	0.000053	0.014	0.0000063	2.7	0.00072	0.00016	0.00063	0.075
		April		15	0.021	5.7	4.4	0.033	2.0	0.011	0.015	0.0043	0.022	0.00014	0.0029	0.0057	0.000022	0.000053	0.014	0.0000063	2.7	0.00072	0.00016	0.00063	0.075
		May		15	0.021	5.7	4.4	0.033	2.0	0.011	0.015	0.0043	0.022	0.00014	0.0029	0.0057	0.000022	0.000053	0.014	0.0000063	2.7	0.00072	0.00016	0.00063	0.075
		June		15	0.02	5.6	4.3	0.033	2.0	0.011	0.015	0.0042	0.022	0.00014	0.0028	0.0057	0.000022	0.000053	0.014	0.0000063	2.7	0.00072	0.00016	0.00063	0.075
		July		15	0.019	5.6	4.2	0.032	2.0	0.011	0.014	0.0041	0.022	0.00013	0.0027	0.0056	0.000022	0.000053	0.014	0.0000062	2.7	0.00072	0.00016	0.00063	0.075
		August		15	0.019	5.6	4.2	0.032	2.0	0.01	0.014	0.0041	0.022	0.00014	0.0027	0.0056	0.000022	0.000053	0.014	0.0000062	2.7	0.00072	0.00016	0.00063	0.075
		September		15	0.019	5.6	4.1	0.032	1.9	0.01	0.014	0.004	0.022	0.00014	0.0027	0.0056	0.000022	0.000053	0.014	0.0000062	2.6	0.00072	0.00016	0.00063	0.075
		October		15	0.018	5.6	4.1	0.032	1.9	0.01	0.014	0.004	0.022	0.00013	0.0027	0.0056	0.000022	0.000053	0.014	0.0000062	2.6	0.00072	0.00016	0.00063	0.075
		November		15	0.018	5.6	4.1	0.032	1.9	0.01	0.014	0.004	0.022	0.00013	0.0027	0.0056	0.000022	0.000053	0.014	0.0000062	2.6	0.00072	0.00016	0.00063	0.075
		December		15	0.018	5.6	4.1	0.032	1.9	0.01	0.014	0.004	0.022	0.00013	0.0027	0.0056	0.000022	0.000053	0.014	0.0000062	2.6	0.00072	0.00016	0.00063	0.075
		January	2035	15	0.018	5.6	4.1	0.032	1.9	0.01	0.014	0.004	0.022	0.00013	0.0027	0.0056	0.000022	0.000053	0.014	0.0000062	2.6	0.00072	0.00016	0.00063	0.075
		February		15	0.018	5.6	4.1	0.032	1.9	0.01	0.014	0.004	0.022	0.00013	0.0027	0.0056	0.000022	0.000053	0.014	0.0000062	2.6	0.00072	0.00016	0.00063	0.075
		March		15	0.018	5.6	4.1	0.032	1.9	0.01	0.014	0.004	0.022	0.00013	0.0027	0.0056	0.000022	0.000053	0.014	0.0000062	2.6	0.00072	0.00016	0.00063	0.075
		April		15	0.018	5.6	4.1	0.032	1.9	0.01	0.014	0.004	0.022	0.00013	0.0027	0.0056	0.000022	0.000053	0.014	0.0000062	2.6	0.00072	0.00016	0.00063	0.075
		May		15	0.018	5.6	4.1	0.032	1.9	0.01	0.014	0.004	0.022	0.00013	0.0027	0.0056	0.000022	0.000053	0.014	0.0000062	2.6	0.00072	0.00016	0.00063	0.075
		June		14	0.017	5.5	4.0	0.032	1.9	0.01	0.013	0.004	0.022	0.00013	0.0026	0.0055	0.000022	0.000053	0.013	0.0000061	2.6	0.00072	0.00016	0.00063	0.075
		July		14	0.016	5.5	3.9	0.032	1.9	0.0098	0.013	0.0039	0.022	0.00013	0.0025	0.0055	0.000022	0.000053	0.013	0.0000061	2.6	0.00072	0.00016	0.00063	0.075
		August		14	0.016	5.5	3.9	0.032	1.9	0.0097	0.013	0.0039	0.022	0.00013	0.0025	0.0055	0.000022	0.000053	0.013	0.0000061	2.6	0.00072	0.00016	0.00063	0.075
		September		14	0.016	5.5	3.9	0.032	1.9	0.0096	0.012	0.0038	0.022	0.00013	0.0025	0.0054	0.000022	0.000053	0.013	0.0000061	2.6	0.00072	0.00016	0.00063	0.075
		October		14	0.016	5.5	3.8	0.032	1.9	0.0095	0.012	0.0038	0.022	0.00013	0.0025	0.0054	0.000022	0.000053	0.013	0.0000061	2.6	0.00072	0.00016	0.00063	0.075
		November		14	0.016	5.5	3.8	0.032	1.9	0.0095	0.012	0.0038	0.022	0.00013	0.0025	0.0054	0.000022	0.000053	0.013	0.0000061	2.6	0.00072	0.00016	0.00063	0.075
		December		14	0.016	5.5	3.8	0.032	1.9	0.0095	0.012	0.0038	0.022	0.00013	0.0025	0.0054	0.000022	0.000053	0.013	0.0000061	2.6	0.00072	0.00016	0.00063	0.075
		January	2036	14	0.016	5.5	3.8	0.032	1.9	0.0095	0.012	0.0038	0.022	0.00013	0.0025	0.0054	0.000022	0.000053	0.013	0.0000061	2.6	0.00072	0.00016	0.00063	0.075
		February		14	0.016	5.5	3.8	0.032	1.9	0.0095	0.012	0.0038	0.022	0.00013	0.0025	0.0054	0.000022	0.000053	0.013	0.0000061	2.6	0.00072	0.00016	0.00063	0.075
		March		14	0.016	5.5	3.8	0.032	1.9	0.0095	0.012	0.0038	0.022	0.00013	0.0025	0.0054	0.000022	0							

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)																			0.05					0.004		0.25									0.1	
CCME (CEQG-PAL [chronic]) ² (mg/L)																			0.001					0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015		0.007
Constituent				Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na		Sr	Tl	Sn	U	V	Zn															
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L															
Whale Tail Pit	Post-Closure, fully flooded pit	January	2033	0.000084	0.0012	1.1	0.0088	0.0000053	0.0003	0.0012	0.55	0.000063	0.000011	1.1	0.02	0.000011	0.00011	0.00013	0.00059	0.0013																
		February		0.000084	0.0012	1.1	0.0088	0.0000053	0.0003	0.0012	0.55	0.000063	0.000011	1.1	0.02	0.000011	0.00011	0.00013	0.00059	0.0013																
		March		0.000084	0.0012	1.1	0.0088	0.0000053	0.0003	0.0012	0.55	0.000063	0.000011	1.1	0.02	0.000011	0.00011	0.00013	0.00059	0.0013																
		April		0.000084	0.0012	1.1	0.0088	0.0000053	0.0003	0.0012	0.55	0.000063	0.000011	1.1	0.02	0.000011	0.00011	0.00013	0.00059	0.0013																
		May		0.000084	0.0012	1.1	0.0088	0.0000053	0.0003	0.0012	0.55	0.000063	0.000011	1.1	0.02	0.000011	0.00011	0.00013	0.00059	0.0013																
		June		0.000084	0.0012	1.1	0.0085	0.0000053	0.00029	0.0012	0.54	0.000063	0.000011	1.1	0.019	0.000011	0.00011	0.00013	0.00059	0.0013																
		July		0.000083	0.0012	1.0	0.0081	0.0000053	0.00028	0.0012	0.54	0.000063	0.000011	1.1	0.019	0.000011	0.00011	0.00012	0.00059	0.0013																
		August		0.000083	0.0012	1.0	0.0079	0.0000053	0.00027	0.0012	0.54	0.000062	0.000011	1.1	0.019	0.000011	0.00011	0.00012	0.00059	0.0013																
		September		0.000083	0.0012	1.0	0.0078	0.0000053	0.00026	0.0012	0.54	0.000062	0.000011	1.0	0.019	0.000011	0.00011	0.00012	0.00059	0.0013																
		October		0.000083	0.0012	1.0	0.0077	0.0000053	0.00026	0.0012	0.53	0.000062	0.000011	1.0	0.019	0.000011	0.00011	0.00012	0.00059	0.0013																
		November		0.000083	0.0012	1.0	0.0077	0.0000053	0.00026	0.0012	0.53	0.000062	0.000011	1.0	0.019	0.000011	0.00011	0.00012	0.00059	0.0013																
		December		0.000083	0.0012	1.0	0.0077	0.0000053	0.00026	0.0012	0.53	0.000062	0.000011	1.0	0.019	0.000011	0.00011	0.00012	0.00059	0.0013																
		January	2034	0.000083	0.0012	1.0	0.0077	0.0000053	0.00026	0.0012	0.53	0.000062	0.000011	1.0	0.019	0.000011	0.00011	0.00012	0.00059	0.0013																
		February		0.000083	0.0012	1.0	0.0077	0.0000053	0.00026	0.0012	0.53	0.000062	0.000011	1.0	0.019	0.000011	0.00011	0.00012	0.00059	0.0013																
		March		0.000083	0.0012	1.0	0.0077	0.0000053	0.00026	0.0012	0.53	0.000062	0.000011	1.0	0.019	0.000011	0.00011	0.00012	0.00059	0.0013																
		April		0.000083	0.0012	1.0	0.0077	0.0000053	0.00026	0.0012	0.53	0.000062	0.000011	1.0	0.019	0.000011	0.00011	0.00012	0.00059	0.0013																
		May		0.000083	0.0012	1.0	0.0077	0.0000053	0.00026	0.0012	0.53	0.000062	0.000011	1.0	0.019	0.000011	0.00011	0.00012	0.00059	0.0013																
		June		0.000082	0.0012	1.0	0.0074	0.0000054	0.00025	0.0012	0.53	0.000062	0.000011	1.0	0.018	0.000011	0.00011	0.00011	0.00059	0.0013																
		July		0.000082	0.0012	1.0	0.0071	0.0000054	0.00024	0.0012	0.53	0.000061	0.000011	0.98	0.018	0.000011	0.00011	0.00011	0.00059	0.0013																
		August		0.000082	0.0012	1.0	0.007	0.0000054	0.00023	0.0011	0.53	0.000061	0.000011	0.97	0.018	0.000011	0.00011	0.00011	0.00059	0.0013																
		September		0.000082	0.0012	1.0	0.0068	0.0000054	0.00022	0.0011	0.52	0.000061	0.000011	0.96	0.018	0.000011	0.00011	0.0001	0.00059	0.0013																
		October		0.000081	0.0012	1.0	0.0068	0.0000054	0.00022	0.0011	0.52	0.000061	0.000011	0.96	0.018	0.000011	0.00011	0.0001	0.00059	0.0013																
		November		0.000081	0.0012	1.0	0.0068	0.0000054	0.00022	0.0011	0.52	0.000061	0.000011	0.96	0.018	0.000011	0.00011	0.0001	0.00059	0.0013																
		December		0.000081	0.0012	1.0	0.0068	0.0000054	0.00022	0.0011	0.52	0.000061	0.000011	0.96	0.018	0.000011	0.00011	0.0001	0.00059	0.0013																
		January	2035	0.000081	0.0012	1.0	0.0068	0.0000054	0.00022	0.0011	0.52	0.000061	0.000011	0.96	0.018	0.000011	0.00011	0.0001	0.00059	0.0013																
		February		0.000081	0.0012	1.0	0.0068	0.0000054	0.00022	0.0011	0.52	0.000061	0.000011	0.96	0.018	0.000011	0.00011	0.0001	0.00059	0.0013																
		March		0.000081	0.0012	1.0	0.0068	0.0000054	0.00022	0.0011	0.52	0.000061	0.000011	0.96	0.018	0.000011	0.00011	0.0001	0.00059	0.0013																
		April		0.000081	0.0012	1.0	0.0068	0.0000054	0.00022	0.0011	0.52	0.000061	0.000011	0.96	0.018	0.000011	0.00011	0.0001	0.00059	0.0013																
		May		0.000081	0.0012	1.0	0.0068	0.0000054	0.00022	0.0011	0.52	0.000061	0.000011	0.96	0.018	0.000011	0.00011	0.0001	0.00059	0.0013																
		June		0.000081	0.0012	0.99	0.0066	0.0000054	0.00021	0.0011	0.52	0.000061	0.000011	0.94	0.018	0.000011	0.00011	0.0001	0.00059	0.0013																
		July		0.000081	0.0012	0.98	0.0063	0.0000054	0.0002	0.0011	0.52	0.00006	0.000011	0.92	0.018	0.000011	0.00011	0.000097	0.00059	0.0013																
		August		0.000081	0.0012	0.98	0.0062	0.0000054	0.0002	0.0011	0.52	0.00006	0.000011	0.91	0.017	0.000011	0.00011	0.000096	0.0006	0.0013																
		September		0.00008	0.0012	0.97	0.0061	0.0000054	0.00019	0.0011	0.52	0.00006	0.000011	0.9	0.017	0.000011	0.00011	0.000094	0.0006	0.0013																
		October		0.00008	0.0012	0.97	0.006	0.0000054	0.00019	0.0011	0.51	0.00006	0.000011	0.9	0.017	0.000011	0.00011	0.000094	0.0006	0.0013																
		November		0.00008	0.0012	0.97	0.006	0.0000054	0.00019	0.0011	0.51	0.00006	0.000011	0.9	0.017	0.000011	0.00011	0.000094	0.0006	0.0013																
		December		0.00008	0.0012	0.97	0.006	0.0000054	0.00019	0.0011	0.51	0.00006	0.000011	0.9	0.017	0.000011	0.00011	0.000094	0.0006	0.0013																
		January	2036	0.00008	0.0012	0.97	0.006	0.0000054	0.00019	0.0011	0.51	0.00006	0.000011	0.9	0.017	0.000011	0.00011	0.000094	0.0006	0.0013																
		February		0.00008	0.0012	0.97	0.006	0.0000054	0.00019	0.0011	0.51	0.00006	0.000011	0.9	0.017	0.000011	0.00011	0.000094	0.0006	0.0013																
		March		0.00008	0.0012	0.97	0.006	0.0000054	0.00019	0.0011	0.51	0.00006	0.000011	0.9	0.017	0.000011	0.00011	0.000094	0.0006	0.0013																
		April		0.00008	0.0012	0.97	0.006	0.0000054	0.00019	0.0011	0.51	0.00006	0.000011	0.9	0.017	0.000011	0.00011	0.000094	0.0006	0.0013																
		May		0.00008	0.0012	0.97	0.006	0.0000054	0.00019	0.0011	0.51	0.00006	0.000011	0.9	0.017	0.000011	0.00011	0.000094	0.0006	0.0013																
		June		0.00008	0.0012	0.97	0.0059	0.0000054	0.00018	0.0011	0.51	0.00006	0.000011	0.88	0.017	0.000011	0.00011	0.000091	0.0006	0.0013																
		July		0.00008	0.0012	0.96	0.0057	0.0000054	0.00018	0.0011	0.51	0.00006	0.000012	0.87	0.017	0.000011	0.00011	0.000089	0.0006	0.0013																
		August		0.00008	0.0012	0.96	0.0056	0.0000054	0.00017	0.0011	0.51	0.00006	0.000012	0.86	0.017	0.000011	0.00011	0.000088	0.0006	0.0013																
		September		0.00008	0.0012	0.95	0.0055	0.0000054	0.00017	0.0011	0.51	0.000059	0.000012	0.85	0.017	0.000011	0.00011	0.000086	0.0006	0.0013																
		October		0.000079	0.0012	0.95	0.0054	0.0000054	0.00017	0.0011	0.51	0.000059	0.000012	0.85	0.017	0.000011	0.00011	0.000086	0.0006	0.0013																
		November		0.000079	0.0012	0.95	0.0054	0.0000054	0.00017	0.0011	0.51	0.000059	0.000012	0.85	0.017	0.000011	0.00011	0.000086	0.0006	0.0013																
		December		0.000079	0.0012	0.95	0.0054	0.0000054	0.00017	0.0011	0.51	0.000059	0.000012	0.85	0.017	0.000011	0.00011	0.000086	0.0006	0.0013																
		January	2037	0.000079	0.0012	0.95	0.0054	0.0000054	0.00017	0.0011	0.51	0.000059	0.000012	0.85	0.017	0.000011	0.00011	0.000086	0.0006	0.0013																
		February		0.000079	0.0012	0.95	0.0054	0.0000054	0.00017	0.0011	0.51	0.000059	0.000012	0.85	0.017	0.000011																				

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0
CCME (CEQG-PAL (chronic)) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004				0.002	0.3
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P_total ⁷	Al ³⁺	Sb	As	Ba	Be	Bi	B	Cd ⁶	Ca	Cr	Co	Cu ²⁺	Fe
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Pit	Post-Closure, fully flooded pit	January	2038	13	0.012	5.3	3.5	0.032	1.8	0.0085	0.01	0.0035	0.022	0.00013	0.0022	0.0053	0.000022	0.000054	0.012	0.0000059	2.5	0.00072	0.00015	0.00062	0.075
		February		13	0.012	5.3	3.5	0.032	1.8	0.0085	0.01	0.0035	0.022	0.00013	0.0022	0.0053	0.000022	0.000054	0.012	0.0000059	2.5	0.00072	0.00015	0.00062	0.075
		March		13	0.012	5.3	3.5	0.032	1.8	0.0085	0.01	0.0035	0.022	0.00013	0.0022	0.0053	0.000022	0.000054	0.012	0.0000059	2.5	0.00072	0.00015	0.00062	0.075
		April		13	0.012	5.3	3.5	0.032	1.8	0.0085	0.01	0.0035	0.022	0.00013	0.0022	0.0053	0.000022	0.000054	0.012	0.0000059	2.5	0.00072	0.00015	0.00062	0.075
		May		13	0.012	5.3	3.5	0.032	1.8	0.0085	0.01	0.0035	0.022	0.00013	0.0022	0.0053	0.000022	0.000054	0.012	0.0000059	2.5	0.00072	0.00015	0.00062	0.075
		June		13	0.011	5.3	3.4	0.031	1.8	0.0084	0.01	0.0035	0.022	0.00013	0.0021	0.0052	0.000022	0.000054	0.012	0.0000059	2.5	0.00072	0.00015	0.00062	0.075
		July		13	0.011	5.3	3.4	0.031	1.8	0.0083	0.0099	0.0035	0.022	0.00013	0.002	0.0052	0.000022	0.000054	0.012	0.0000059	2.4	0.00072	0.00015	0.00062	0.075
		August		13	0.011	5.3	3.4	0.031	1.8	0.0082	0.0098	0.0035	0.022	0.00013	0.0021	0.0052	0.000022	0.000054	0.012	0.0000059	2.4	0.00072	0.00015	0.00062	0.075
		September		13	0.01	5.3	3.4	0.031	1.8	0.0082	0.0097	0.0034	0.022	0.00013	0.0021	0.0052	0.000022	0.000054	0.012	0.0000059	2.4	0.00072	0.00015	0.00062	0.075
		October		13	0.01	5.3	3.3	0.031	1.7	0.0081	0.0096	0.0034	0.022	0.00013	0.0021	0.0052	0.000022	0.000054	0.012	0.0000058	2.4	0.00072	0.00015	0.00062	0.075
		November		13	0.01	5.3	3.3	0.031	1.7	0.0081	0.0096	0.0034	0.022	0.00013	0.0021	0.0052	0.000022	0.000054	0.012	0.0000058	2.4	0.00072	0.00015	0.00062	0.075
		December		13	0.01	5.3	3.3	0.031	1.7	0.0081	0.0096	0.0034	0.022	0.00013	0.0021	0.0052	0.000022	0.000054	0.012	0.0000058	2.4	0.00072	0.00015	0.00062	0.075
		January	≥2039	13	0.01	5.3	3.3	0.031	1.7	0.0081	0.0096	0.0034	0.022	0.00013	0.0021	0.0052	0.000022	0.000054	0.012	0.0000058	2.4	0.00072	0.00015	0.00062	0.075
		February		13	0.01	5.3	3.3	0.031	1.7	0.0081	0.0096	0.0034	0.022	0.00013	0.0021	0.0052	0.000022	0.000054	0.012	0.0000058	2.4	0.00072	0.00015	0.00062	0.075
		March		13	0.01	5.3	3.3	0.031	1.7	0.0081	0.0096	0.0034	0.022	0.00013	0.0021	0.0052	0.000022	0.000054	0.012	0.0000058	2.4	0.00072	0.00015	0.00062	0.075
		April		13	0.01	5.3	3.3	0.031	1.7	0.0081	0.0096	0.0034	0.022	0.00013	0.0021	0.0052	0.000022	0.000054	0.012	0.0000058	2.4	0.00072	0.00015	0.00062	0.075
		May		13	0.01	5.3	3.3	0.031	1.7	0.0081	0.0096	0.0034	0.022	0.00013	0.0021	0.0052	0.000022	0.000054	0.012	0.0000058	2.4	0.00072	0.00015	0.00062	0.075
		June		13	0.0098	5.3	3.3	0.031	1.7	0.008	0.0095	0.0034	0.022	0.00013	0.002	0.0052	0.000022	0.000054	0.012	0.0000058	2.4	0.00071	0.00015	0.00062	0.075
		July		13	0.0094	5.3	3.3	0.031	1.7	0.0079	0.0093	0.0034	0.022	0.00013	0.0019	0.0052	0.000022	0.000054	0.012	0.0000058	2.4	0.00071	0.00015	0.00062	0.075
		August		13	0.0094	5.3	3.3	0.031	1.7	0.0079	0.0092	0.0034	0.022	0.00013	0.002	0.0052	0.000022	0.000054	0.012	0.0000058	2.4	0.00071	0.00015	0.00062	0.075
		September		13	0.0092	5.3	3.2	0.031	1.7	0.0078	0.0091	0.0034	0.022	0.00013	0.002	0.0051	0.000022	0.000054	0.012	0.0000058	2.4	0.00071	0.00015	0.00062	0.075
		October		13	0.0091	5.3	3.2	0.031	1.7	0.0078	0.009	0.0033	0.022	0.00013	0.002	0.0051	0.000022	0.000054	0.012	0.0000058	2.4	0.00071	0.00015	0.00062	0.075
		November		13	0.0091	5.3	3.2	0.031	1.7	0.0078	0.009	0.0033	0.022	0.00013	0.002	0.0051	0.000022	0.000054	0.012	0.0000058	2.4	0.00071	0.00015	0.00062	0.075
		December		13	0.0091	5.3	3.2	0.031	1.7	0.0078	0.009	0.0033	0.022	0.00013	0.002	0.0051	0.000022	0.000054	0.012	0.0000058	2.4	0.00071	0.00015	0.00062	0.075
		MINIMUM		13	0.0091	5.3	3.2	0.031	1.7	0.0078	0.009	0.0033	0.022	0.00013	0.0019	0.0051	0.000021	0.000048	0.012	0.0000058	2.4	0.00071	0.00015	0.00062	0.075
		MAXIMUM		25	0.067	7.2	8.8	0.038	3.1	0.023	0.039	0.0077	0.022	0.00017	0.0064	0.0078	0.000022	0.000054	0.023	0.0000083	4.0	0.00073	0.00021	0.00065	0.075
		AVERAGE		17	0.028	5.9	5.0	0.033	2.2	0.013	0.019	0.0048	0.022	0.00014	0.0034	0.006	0.000022	0.000052	0.015	0.0000066	2.9	0.00072	0.00017	0.00063	0.075

Notes:

¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells

²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEQG's shown in bold-underlined type

³CEQG Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed

⁴CEQG Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.

⁶CEQG Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 11 mg/L.

⁷ The CEQG aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1		
CCME (CEQG-PAL [chronic]) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008	0.015		0.007		
Constituent				Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Whale Tail Pit	Post-Closure, fully flooded pit	January	2038	0.000079	0.0011	0.93	0.0049	0.0000054	0.00015	0.0011	0.5	0.000059	0.000012	0.81	0.016	0.000011	0.00011	0.000079	0.0006	0.0013	
		February		0.000079	0.0011	0.93	0.0049	0.0000054	0.00015	0.0011	0.5	0.000059	0.000012	0.81	0.016	0.000011	0.00011	0.000079	0.0006	0.0013	
		March		0.000079	0.0011	0.93	0.0049	0.0000054	0.00015	0.0011	0.5	0.000059	0.000012	0.81	0.016	0.000011	0.00011	0.000079	0.0006	0.0013	
		April		0.000079	0.0011	0.93	0.0049	0.0000054	0.00015	0.0011	0.5	0.000059	0.000012	0.81	0.016	0.000011	0.00011	0.000079	0.0006	0.0013	
		May		0.000079	0.0011	0.93	0.0049	0.0000054	0.00015	0.0011	0.5	0.000059	0.000012	0.81	0.016	0.000011	0.00011	0.000079	0.0006	0.0013	
		June		0.000079	0.0011	0.93	0.0048	0.0000054	0.00014	0.0011	0.5	0.000058	0.000012	0.8	0.016	0.000011	0.00011	0.000078	0.0006	0.0013	
		July		0.000078	0.0011	0.92	0.0047	0.0000054	0.00014	0.0011	0.5	0.000058	0.000012	0.79	0.016	0.000011	0.00011	0.000076	0.0006	0.0013	
		August		0.000078	0.0011	0.92	0.0047	0.0000054	0.00014	0.0011	0.5	0.000058	0.000012	0.79	0.016	0.000011	0.00011	0.000075	0.0006	0.0013	
		September		0.000078	0.0011	0.92	0.0046	0.0000054	0.00013	0.0011	0.5	0.000058	0.000012	0.78	0.016	0.000011	0.00011	0.000075	0.0006	0.0013	
		October		0.000078	0.0011	0.92	0.0046	0.0000054	0.00013	0.0011	0.5	0.000058	0.000012	0.78	0.016	0.000011	0.00011	0.000074	0.0006	0.0013	
		November		0.000078	0.0011	0.92	0.0046	0.0000054	0.00013	0.0011	0.5	0.000058	0.000012	0.78	0.016	0.000011	0.00011	0.000074	0.0006	0.0013	
		December		0.000078	0.0011	0.92	0.0046	0.0000054	0.00013	0.0011	0.5	0.000058	0.000012	0.78	0.016	0.000011	0.00011	0.000074	0.0006	0.0013	
		January	≥2039	0.000078	0.0011	0.92	0.0046	0.0000054	0.00013	0.0011	0.5	0.000058	0.000012	0.78	0.016	0.000011	0.00011	0.000074	0.0006	0.0013	
		February		0.000078	0.0011	0.92	0.0046	0.0000054	0.00013	0.0011	0.5	0.000058	0.000012	0.78	0.016	0.000011	0.00011	0.000074	0.0006	0.0013	
		March		0.000078	0.0011	0.92	0.0046	0.0000054	0.00013	0.0011	0.5	0.000058	0.000012	0.78	0.016	0.000011	0.00011	0.000074	0.0006	0.0013	
		April		0.000078	0.0011	0.92	0.0046	0.0000054	0.00013	0.0011	0.5	0.000058	0.000012	0.78	0.016	0.000011	0.00011	0.000074	0.0006	0.0013	
		May		0.000078	0.0011	0.92	0.0046	0.0000054	0.00013	0.0011	0.5	0.000058	0.000012	0.78	0.016	0.000011	0.00011	0.000074	0.0006	0.0013	
		June		0.000078	0.0011	0.91	0.0045	0.0000054	0.00013	0.0011	0.49	0.000058	0.000012	0.77	0.016	0.000011	0.00011	0.000073	0.0006	0.0013	
		July		0.000078	0.0011	0.91	0.0043	0.0000054	0.00012	0.0011	0.49	0.000058	0.000012	0.76	0.016	0.000011	0.00011	0.000071	0.0006	0.0013	
		August		0.000078	0.0011	0.91	0.0043	0.0000054	0.00012	0.0011	0.49	0.000058	0.000012	0.76	0.016	0.000011	0.00011	0.000071	0.0006	0.0013	
		September		0.000078	0.0011	0.91	0.0043	0.0000054	0.00012	0.0011	0.49	0.000058	0.000012	0.75	0.016	0.000011	0.00011	0.00007	0.0006	0.0013	
		October		0.000078	0.0011	0.91	0.0042	0.0000054	0.00012	0.0011	0.49	0.000058	0.000012	0.75	0.016	0.000011	0.00011	0.00007	0.0006	0.0013	
		November		0.000078	0.0011	0.91	0.0042	0.0000054	0.00012	0.0011	0.49	0.000058	0.000012	0.75	0.016	0.000011	0.00011	0.00007	0.0006	0.0013	
		December		0.000078	0.0011	0.91	0.0042	0.0000054	0.00012	0.0011	0.49	0.000058	0.000012	0.75	0.016	0.000011	0.00011	0.00007	0.0006	0.0013	
		MINIMUM			0.000078	0.0011	0.91	0.0042	0.000005	0.00012	0.0011	0.49	0.000058	0.000011	0.75	0.016	0.0000099	0.000098	0.00007	0.00055	0.0013
		MAXIMUM			0.0001	0.0014	1.5	0.021	0.0000054	0.00078	0.0015	0.7	0.000078	0.000012	2.1	0.029	0.000011	0.00011	0.00028	0.0006	0.0014
		AVERAGE			0.000085	0.0012	1.1	0.0095	0.0000053	0.00033	0.0012	0.56	0.000064	0.000011	1.2	0.02	0.000011	0.00011	0.00014	0.00059	0.0013

Notes:

¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells

²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEQG's shown in bold-underlined type

³CEQG Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed

⁴CEQG Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.

⁶CEQG Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 11 mg/L.

⁷ The CEQG aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1				0.002		0.02		0.1	1.0	
CCME (CEQG-PAL [chronic]) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.0004			0.002	0.3	
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁵	Ca	Cr	Co	Cu ⁶	Fe
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Attenuation Pond	Construction and Operations	January	2018	11	0	4.5	2.6	0.029	1.4	0.0061	0.0072	0.012	0.33	0.00012	0.0043	0.0071	0.000027	0.000053	0.01	0.0000068	2.4	0.0087	0.00061	0.00098	0.7
		February		11	0	4.5	2.6	0.029	1.4	0.0061	0.011	0.013	0.33	0.00012	0.0043	0.0071	0.000027	0.000053	0.01	0.0000068	2.4	0.0087	0.00061	0.00098	0.7
		March		12	0	4.5	2.6	0.029	1.4	0.0061	0.015	0.013	0.33	0.00012	0.0043	0.0071	0.000027	0.000053	0.01	0.0000068	2.4	0.0087	0.00061	0.00098	0.7
		April		12	0	4.6	2.6	0.029	1.4	0.0061	0.019	0.013	0.33	0.00012	0.0043	0.0071	0.000027	0.000053	0.01	0.0000068	2.4	0.0087	0.00061	0.00098	0.7
		May		12	0	4.6	2.6	0.029	1.4	0.0061	0.023	0.014	0.33	0.00012	0.0043	0.0071	0.000027	0.000053	0.01	0.0000068	2.4	0.0087	0.00061	0.00098	0.7
		June		12	0.000056	4.7	2.7	0.03	1.5	0.0062	0.011	0.013	0.33	0.00012	0.0043	0.0073	0.000027	0.000054	0.01	0.0000069	2.4	0.0087	0.00061	0.001	0.7
		July		10	0.00012	4.2	2.3	0.027	1.3	0.0054	0.0082	0.012	0.33	0.00011	0.0043	0.0069	0.000025	0.000048	0.0091	0.0000063	2.2	0.0087	0.0006	0.00097	0.7
		August		11	0.00031	4.3	2.4	0.028	1.3	0.0055	0.012	0.012	0.33	0.00011	0.0043	0.0069	0.000025	0.000049	0.0093	0.0000064	2.2	0.0087	0.0006	0.00098	0.7
		September		11	0.00087	4.3	2.4	0.028	1.3	0.0055	0.016	0.013	0.33	0.00011	0.0043	0.007	0.000025	0.000049	0.0093	0.0000064	2.2	0.0087	0.00061	0.0010	0.71
		October		11	0.0012	4.3	2.3	0.029	1.3	0.0055	0.019	0.013	0.33	0.00011	0.0043	0.007	0.000025	0.000049	0.0093	0.0000064	2.2	0.0087	0.00061	0.001	0.71
		November		11	0.0012	4.3	2.3	0.029	1.3	0.0055	0.023	0.014	0.33	0.00011	0.0043	0.007	0.000025	0.000049	0.0093	0.0000064	2.2	0.0087	0.00061	0.001	0.71
		December		11	0.0012	4.3	2.3	0.029	1.3	0.0055	0.027	0.014	0.33	0.00011	0.0043	0.007	0.000025	0.000049	0.0093	0.0000064	2.2	0.0087	0.00061	0.001	0.71
		January	2019	11	0.0012	4.3	2.3	0.029	1.3	0.0055	0.031	0.014	0.33	0.00011	0.0043	0.007	0.000025	0.000049	0.0093	0.0000064	2.2	0.0087	0.00061	0.001	0.71
		February		11	0.0012	4.3	2.3	0.029	1.3	0.0055	0.035	0.015	0.33	0.00011	0.0043	0.007	0.000025	0.000049	0.0093	0.0000064	2.2	0.0087	0.00061	0.001	0.71
		March		11	0.0012	4.3	2.3	0.029	1.3	0.0055	0.039	0.015	0.33	0.00011	0.0043	0.007	0.000025	0.000049	0.0093	0.0000064	2.2	0.0087	0.00061	0.001	0.71
		April		11	0.0012	4.3	2.3	0.029	1.3	0.0055	0.044	0.016	0.33	0.00011	0.0043	0.007	0.000025	0.000049	0.0093	0.0000064	2.2	0.0087	0.00061	0.001	0.71
		May		11	0.0012	4.4	2.3	0.029	1.4	0.0055	0.052	0.016	0.33	0.00011	0.0043	0.007	0.000025	0.000049	0.0093	0.0000064	2.2	0.0087	0.00061	0.001	0.71
		June		39	0.0022	9.6	16	0.047	3.8	0.023	0.059	0.027	0.33	0.00012	0.0044	0.014	0.000029	0.000051	0.034	0.000013	6.0	0.0088	0.00069	0.0012	0.71
		July		81	0.0033	18	37	0.076	7.5	0.05	0.062	0.042	0.33	0.00014	0.0047	0.023	0.000036	0.000055	0.071	0.000022	12	0.0089	0.00083	0.0015	0.72
		August		130	0.0036	27	60	0.11	12	0.08	0.071	0.06	0.33	0.00015	0.005	0.035	0.000044	0.000061	0.11	0.000033	18	0.009	0.00099	0.0018	0.72
		September		183	0.0044	37	86	0.14	16	0.11	0.08	0.08	0.33	0.00017	0.0055	0.047	0.000052	0.000065	0.16	0.000045	26	0.0091	0.0012	0.0022	0.72
		October		262	0.0036	52	124	0.2	23	0.16	0.12	0.11	0.33	0.0002	0.006	0.066	0.000065	0.000075	0.23	0.000062	36	0.0093	0.0014	0.0027	0.73
		November		414	0.00043	81	198	0.3	37	0.26	0.18	0.17	0.33	0.00027	0.0065	0.1	0.000092	0.00010	0.36	0.000097	57	0.0096	0.0019	0.0037	0.73
		December		429	0.000088	84	205	0.31	38	0.27	0.15	0.17	0.33	0.00027	0.0066	0.1	0.000094	0.0001	0.37	0.00010	59	0.0096	0.002	0.0038	0.73
		January	2020	183	0.00031	38	84	0.15	17	0.12	0.11	0.071	0.33	0.00023	0.0053	0.048	0.000064	0.000097	0.16	0.000046	26	0.0091	0.0012	0.0024	0.72
		February		171	0.00032	36	79	0.15	16	0.11	0.11	0.066	0.33	0.00023	0.0052	0.045	0.000062	0.000097	0.15	0.000044	25	0.0091	0.0012	0.0023	0.72
		March		174	0.00032	37	80	0.15	16	0.11	0.11	0.067	0.33	0.00023	0.0052	0.046	0.000063	0.000097	0.15	0.000044	25	0.0091	0.0012	0.0023	0.72
		April		180	0.00031	38	83	0.15	16	0.12	0.13	0.071	0.33	0.00023	0.0052	0.047	0.000063	0.000097	0.16	0.000046	26	0.0091	0.0012	0.0023	0.72
		May		188	0.0003	39	87	0.16	17	0.12	0.16	0.077	0.33	0.00023	0.0053	0.049	0.000064	0.000097	0.16	0.000047	27	0.0091	0.0012	0.0024	0.72
		June		99	0.0043	21	44	0.09	9.7	0.062	0.1	0.05	0.33	0.00017	0.0088	0.029	0.000036	0.00005	0.096	0.000028	14	0.009	0.0011	0.0018	0.74
		July		155	2.5	37	51	0.14	23	0.11	2.5	0.06	0.33	0.0019	0.12	0.04	0.000046	0.000053	0.23	0.000039	20	0.01	0.0019	0.0031	0.95
		August		161	2.5	38	51	0.13	24	0.12	3.0	0.06	0.33	0.002	0.13	0.04	0.000046	0.000053	0.24	0.00004	21	0.01	0.0019	0.0032	0.98
		September		143	1.3	31	51	0.11	18	0.12	3.0	0.056	0.33	0.0012	0.074	0.035	0.000042	0.00005	0.18	0.000034	18	0.0097	0.0014	0.0024	0.88
		October		198	0.059	40	87	0.15	18	0.14	1.7	0.08	0.33	0.00035	0.014	0.049	0.000061	0.000087	0.18	0.000048	27	0.0093	0.0013	0.0024	0.74
		November		215	0.0012	43	97	0.17	19	0.15	1.7	0.087	0.33	0.00023	0.0056	0.054	0.000064	0.000091	0.18	0.000051	29	0.0092	0.0013	0.0025	0.72
		December		214	0.00087	43	97	0.17	19	0.15	1.6	0.087	0.33	0.00022	0.0055	0.053	0.000064	0.000091	0.18	0.000051	29	0.0092	0.0013	0.0025	0.72
		January	2021	134	0.0011	28	58	0.12	12	0.11	1.3	0.057	0.33	0.00021	0.0051	0.035	0.000054	0.000089	0.11	0.000034	19	0.009	0.001	0.002	0.72
		February		122	0.0011	26	52	0.11	11	0.11	1.3	0.052	0.33	0.00021	0.005	0.033	0.000053	0.000089							

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25										0.1
CCME (CEQG-PAL [chronic]) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.007	
Constituent				Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Attenuation Pond	Construction and Operations	January	2018	0.00019	0.0013	1.1	0.013	0.0000051	0.00007	0.0046	0.57	0.000055	0.000021	0.55	0.016	0.000016	0.00011	0.000047	0.0013	0.0018
		February		0.00019	0.0013	1.1	0.013	0.0000051	0.00007	0.0046	0.57	0.000055	0.000021	0.55	0.016	0.000016	0.00011	0.000047	0.0013	0.0018
		March		0.00019	0.0013	1.1	0.013	0.0000051	0.00007	0.0046	0.57	0.000055	0.000021	0.55	0.016	0.000016	0.00011	0.000047	0.0013	0.0018
		April		0.00019	0.0013	1.1	0.013	0.0000051	0.00007	0.0046	0.57	0.000055	0.000021	0.55	0.016	0.000016	0.00011	0.000047	0.0013	0.0018
		May		0.00019	0.0013	1.1	0.013	0.0000051	0.00007	0.0046	0.57	0.000055	0.000021	0.55	0.016	0.000016	0.00011	0.000047	0.0013	0.0018
		June		0.00019	0.0013	1.2	0.013	0.0000052	0.000071	0.0047	0.58	0.000056	0.000021	0.58	0.016	0.000016	0.00011	0.000053	0.0014	0.0018
		July		0.00018	0.0012	1.1	0.013	0.0000046	0.000065	0.0046	0.53	0.00005	0.00002	0.52	0.014	0.000015	0.000098	0.000051	0.0013	0.0017
		August		0.00019	0.0012	1.1	0.013	0.0000047	0.000066	0.0047	0.54	0.000051	0.00002	0.53	0.014	0.000015	0.00010	0.000053	0.0013	0.0017
		September		0.00019	0.0012	1.1	0.013	0.0000047	0.000067	0.0047	0.55	0.000051	0.00002	0.54	0.014	0.000015	0.0001	0.000056	0.0013	0.0017
		October		0.00019	0.0012	1.1	0.013	0.0000047	0.000068	0.0047	0.55	0.000051	0.00002	0.55	0.014	0.000015	0.0001	0.000058	0.0013	0.0018
		November		0.00019	0.0012	1.1	0.013	0.0000047	0.000068	0.0047	0.55	0.000051	0.00002	0.55	0.014	0.000015	0.0001	0.000058	0.0013	0.0018
		December		0.00019	0.0012	1.1	0.013	0.0000047	0.000068	0.0047	0.55	0.000051	0.00002	0.55	0.014	0.000015	0.0001	0.000058	0.0013	0.0018
		January	2019	0.00019	0.0012	1.1	0.013	0.0000047	0.000068	0.0047	0.55	0.000051	0.00002	0.55	0.014	0.000015	0.0001	0.000058	0.0013	0.0018
		February		0.00019	0.0012	1.1	0.013	0.0000047	0.000068	0.0047	0.55	0.000051	0.00002	0.55	0.014	0.000015	0.0001	0.000058	0.0013	0.0018
		March		0.00019	0.0012	1.1	0.013	0.0000047	0.000068	0.0047	0.55	0.000051	0.00002	0.55	0.014	0.000015	0.0001	0.000058	0.0013	0.0018
		April		0.00019	0.0012	1.1	0.013	0.0000047	0.000068	0.0047	0.55	0.000051	0.00002	0.55	0.014	0.000015	0.0001	0.000058	0.0013	0.0018
		May		0.00019	0.0012	1.1	0.013	0.0000047	0.000068	0.0047	0.55	0.000051	0.00002	0.55	0.014	0.000015	0.0001	0.000058	0.0013	0.0018
		June		0.00024	0.0021	2.7	0.031	0.0000046	0.0015	0.005	0.87	0.000089	0.000021	3.6	0.046	0.000015	0.0001	0.00048	0.0013	0.0023
		July		0.00032	0.0034	5.1	0.056	0.0000047	0.0037	0.0054	1.4	0.00015	0.000022	8.1	0.096	0.000015	0.0001	0.0011	0.0013	0.0032
		August		0.00042	0.005	7.9	0.087	0.0000047	0.0061	0.0059	1.9	0.00021	0.000024	13	0.15	0.000015	0.0001	0.0018	0.0013	0.0043
		September		0.00052	0.0067	11	0.12	0.0000046	0.0089	0.0066	2.5	0.00029	0.000025	19	0.22	0.000015	0.0001	0.0026	0.0013	0.0054
		October		0.00067	0.0092	15	0.17	0.0000049	0.013	0.0074	3.4	0.00039	0.000028	27	0.31	0.000015	0.00011	0.0038	0.0013	0.0071
		November		0.00095	0.014	24	0.26	0.0000059	0.021	0.0087	5.2	0.0006	0.000035	43	0.49	0.000017	0.00012	0.006	0.0014	0.01
		December		0.00097	0.015	25	0.27	0.0000058	0.021	0.0089	5.4	0.00062	0.000035	45	0.51	0.000017	0.00012	0.0063	0.0014	0.011
		January	2020	0.00053	0.0071	11	0.12	0.0000079	0.0085	0.0067	2.7	0.00031	0.000032	18	0.22	0.000021	0.00016	0.0025	0.0016	0.0059
		February		0.00051	0.0067	10	0.11	0.000008	0.0079	0.0065	2.6	0.00029	0.000032	17	0.2	0.000021	0.00017	0.0024	0.0016	0.0057
		March		0.00051	0.0068	10	0.11	0.000008	0.0081	0.0066	2.6	0.00029	0.000032	18	0.21	0.000021	0.00017	0.0024	0.0016	0.0057
		April		0.00052	0.007	11	0.11	0.0000079	0.0083	0.0066	2.7	0.0003	0.000032	18	0.21	0.000021	0.00017	0.0025	0.0016	0.0059
		May		0.00054	0.0073	11	0.12	0.0000078	0.0088	0.0067	2.8	0.00031	0.000032	19	0.22	0.000021	0.00016	0.0026	0.0016	0.006
		June		0.00042	0.0039	5.9	0.14	0.0000041	0.0045	0.0082	1.5	0.00019	0.000023	11	0.11	0.000014	0.000089	0.0014	0.0012	0.0035
		July		0.0008	0.0052	7.4	0.25	0.000011	0.0059	0.018	4.4	0.00065	0.000046	16	0.14	0.000024	0.00016	0.0019	0.002	0.0054
		August		0.00084	0.0052	7.5	0.24	0.000011	0.006	0.018	4.6	0.00071	0.000048	16	0.14	0.000025	0.00016	0.0019	0.0021	0.0055
		September		0.00063	0.0047	7.1	0.16	0.0000076	0.0056	0.012	3.3	0.00048	0.000036	14	0.14	0.000019	0.00012	0.0018	0.0017	0.0047
		October		0.00057	0.0072	11	0.13	0.0000072	0.0089	0.007	2.9	0.00035	0.000031	20	0.22	0.00002	0.00015	0.0027	0.0016	0.006
		November		0.00057	0.0078	12	0.13	0.0000071	0.0099	0.0069	2.9	0.00034	0.000031	21	0.25	0.00002	0.00015	0.0029	0.0016	0.0063
		December		0.00057	0.0078	12	0.13	0.0000071	0.0098	0.0069	2.9	0.00033	0.000031	21	0.25	0.00002	0.00015	0.0029	0.0016	0.0063
		January	2021	0.00043	0.0053	7.9	0.084	0.0000076	0.0058	0.0061	2.1	0.00023	0.00003	13	0.15	0.000021	0.00016	0.0017	0.0016	0.0047
		February		0.00041	0.005	7.2	0.077	0.0000077	0.0052	0.006	1.9	0.00022	0.000029	11	0.14	0.000021	0.00016	0.0016	0.0016	0.0045
		March		0.00041	0.005	7.2	0.076	0.0000077	0.0052	0.006	1.9	0.00022	0.000029	11	0.14	0.000021	0.00016	0.0015	0.0016	0.0045
		April		0.0004	0.0049	7.1	0.076	0.0000077	0.0051	0.006	1.9	0.00021	0.000029	11	0.14	0.000021	0.00016	0.0015	0.0016	0.0045
		May		0.00041	0.005	7.2	0.077	0.0000077	0.0052	0.006	1.9	0.00022	0.000029	11	0.14	0.000021	0.00016	0.0016	0.0016	0.0045
		June		0.00039	0.0024	3.2	0.09	0.0000058	0.0021	0.009	1.8	0.00026	0.000028	5.8	0.056	0.000016	0.0001	0.00069	0.0015	0.0028
		July		0.00074	0.0033	4.1	0.22	0.000011	0.0029	0.018	4.1	0.00065	0.000048	10.0	0.074	0.000026	0.00016	0.001	0.0022	0.0043
		August		0.00078	0.0034	4.1	0.22	0.000012	0.003	0.018	4.3	0.0007	0.00005	10	0.075	0.000026	0.00017	0.0011	0.0022	0.0045
		September		0.00055	0.0028	3.6	0.14	0.000008	0.0025	0.012	2.8	0.00044	0.000036	7.8	0.065	0.00002	0.00012	0.00085	0.0018	0.0035
		October		0.00041	0.0042	5.8	0.069	0.0000079	0.004	0.0062	1.9	0.00024	0.00003	9.5	0.11	0.000021	0.00016	0.0012	0.0017	0.0041
		November		0.00038	0.0045	6.4	0.068	0.0000078	0.0045	0.0059	1.8	0.0002	0.000029	10	0.12	0.000021	0.00016	0.0013	0.0016	0.0042
		December		0.00039	0.0046	6.6	0.069	0.0000077	0.0046	0.0059	1.8	0.0002	0.000029	10	0.13	0.000021	0.00016	0.0014	0.0016	0.0043
		January	2022	0.00037	0.0044	6.2	0.065	0.0000078	0.0043	0.0059	1.7	0.00019	0.000029	9.6	0.12	0.000021	0.00016	0.0013	0.0016	0.0041
		February		0.00037	0.0044	6.1	0.064													

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1				0.002		0.02		0.1	1.0	
CCME (CEQG-PAL [chronic]) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025			1.5	0.00004				0.002	0.3	
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁵	Ca	Cr	Co	Cu ⁶	Fe
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Whale Tail Attenuation Pond	Closure	August	2022	61	1.2	20	12	0.11	13	0.036	0.7	0.045	0.33	0.00089	0.049	0.028	0.000027	0.000032	0.12	0.000028	7.5	0.0096	0.0021	0.0028	0.93
		September		53	1.0	17	11	0.11	12	0.023	0.26	0.044	0.33	0.00067	0.036	0.027	0.000024	0.000027	0.099	0.000027	6.6	0.0094	0.002	0.0025	0.9
		October		53	0.84	16	13	0.098	10	0.026	0.21	0.042	0.33	0.00056	0.03	0.025	0.000024	0.000029	0.088	0.000025	6.8	0.0093	0.0018	0.0023	0.87
		November		59	0.75	17	17	0.099	10	0.035	0.21	0.044	0.33	0.00052	0.027	0.026	0.000027	0.000035	0.09	0.000025	7.9	0.0092	0.0017	0.0022	0.85
		December		65	0.66	18	21	0.099	10	0.043	0.21	0.045	0.33	0.00049	0.025	0.026	0.00003	0.00004	0.09	0.000026	8.8	0.0092	0.0016	0.0022	0.83
		January	2023	70	0.59	19	24	0.10	10	0.049	0.22	0.047	0.33	0.00045	0.023	0.027	0.000032	0.000045	0.091	0.000026	9.6	0.0092	0.0015	0.0021	0.82
		February		75	0.53	19	27	0.1	10	0.055	0.22	0.048	0.33	0.00043	0.021	0.027	0.000034	0.000049	0.092	0.000027	10	0.0091	0.0015	0.0021	0.81
		March		79	0.48	20	29	0.1	10	0.06	0.22	0.049	0.33	0.0004	0.019	0.028	0.000035	0.000052	0.093	0.000027	11	0.0091	0.0014	0.0021	0.8
		April		82	0.43	20	31	0.1	10	0.064	0.22	0.05	0.33	0.00038	0.018	0.028	0.000037	0.000055	0.093	0.000027	11	0.0091	0.0014	0.0021	0.79
		May		85	0.39	21	33	0.1	10	0.068	0.22	0.05	0.33	0.00036	0.016	0.028	0.000038	0.000058	0.094	0.000028	12	0.0091	0.0013	0.002	0.78
		June		68	0.36	17	26	0.085	8.6	0.053	0.17	0.043	0.33	0.00032	0.015	0.024	0.000032	0.000047	0.077	0.000023	9.6	0.009	0.0012	0.0018	0.77
		July		56	0.45	15	20	0.078	8.0	0.039	0.14	0.038	0.33	0.00034	0.017	0.021	0.000027	0.000038	0.068	0.00002	7.8	0.009	0.0012	0.0017	0.78
		August		57	0.63	16	19	0.088	9.0	0.036	0.14	0.04	0.33	0.00042	0.02	0.023	0.000027	0.000037	0.074	0.000022	7.8	0.0091	0.0014	0.0019	0.8
		September		56	0.7	16	17	0.09	9.3	0.033	0.13	0.04	0.33	0.00045	0.021	0.023	0.000026	0.000035	0.075	0.000022	7.6	0.0091	0.0014	0.0019	0.81
		October		55	0.67	15	17	0.088	9.1	0.032	0.13	0.04	0.33	0.00043	0.021	0.023	0.000026	0.000034	0.073	0.000022	7.6	0.0091	0.0014	0.0019	0.81
		November		57	0.65	16	19	0.089	9.1	0.035	0.13	0.04	0.33	0.00042	0.02	0.023	0.000027	0.000036	0.074	0.000022	7.9	0.0091	0.0014	0.0019	0.8
		December		60	0.62	16	20	0.089	9.2	0.037	0.13	0.041	0.33	0.00041	0.02	0.023	0.000028	0.000038	0.075	0.000023	8.3	0.0091	0.0014	0.0019	0.8
		January	2024	62	0.59	16	21	0.09	9.2	0.039	0.14	0.042	0.33	0.0004	0.019	0.024	0.000029	0.000039	0.076	0.000023	8.6	0.0091	0.0014	0.0019	0.8
		February		64	0.57	17	22	0.09	9.3	0.041	0.14	0.043	0.33	0.00039	0.018	0.024	0.000029	0.000041	0.077	0.000023	8.9	0.0091	0.0013	0.0019	0.79
		March		66	0.55	17	24	0.091	9.3	0.043	0.14	0.043	0.33	0.00039	0.018	0.024	0.00003	0.000042	0.078	0.000023	9.2	0.0091	0.0013	0.0019	0.79
		April		68	0.52	17	25	0.091	9.3	0.045	0.14	0.044	0.33	0.00038	0.017	0.025	0.000031	0.000044	0.078	0.000024	9.5	0.0091	0.0013	0.0019	0.79
		May		69	0.5	17	26	0.091	9.4	0.047	0.15	0.045	0.33	0.00037	0.017	0.025	0.000031	0.000045	0.079	0.000024	9.7	0.009	0.0013	0.0019	0.78
		June		61	0.46	16	23	0.082	8.4	0.04	0.13	0.041	0.33	0.00034	0.016	0.022	0.000029	0.00004	0.07	0.000021	8.6	0.009	0.0012	0.0017	0.77
		July		54	0.52	14	19	0.078	8.0	0.033	0.11	0.038	0.33	0.00035	0.017	0.021	0.000026	0.000035	0.065	0.00002	7.5	0.009	0.0012	0.0017	0.78
		August		55	0.69	15	18	0.088	9.1	0.03	0.12	0.04	0.33	0.00043	0.02	0.023	0.000026	0.000034	0.072	0.000022	7.6	0.0091	0.0014	0.0019	0.8
		September		54	0.75	15	16	0.09	9.3	0.028	0.11	0.04	0.33	0.00046	0.022	0.023	0.000025	0.000033	0.072	0.000022	7.4	0.0091	0.0014	0.0019	0.81
		October		52	0.73	15	16	0.088	9.0	0.027	0.11	0.039	0.33	0.00044	0.021	0.022	0.000025	0.000033	0.071	0.000021	7.2	0.0091	0.0014	0.0019	0.81
		November		54	0.7	15	17	0.087	9.0	0.028	0.11	0.039	0.33	0.00043	0.02	0.022	0.000026	0.000034	0.071	0.000021	7.4	0.0091	0.0014	0.0019	0.8
		December		55	0.67	15	18	0.087	8.9	0.03	0.12	0.04	0.33	0.00042	0.02	0.022	0.000026	0.000036	0.071	0.000021	7.6	0.0091	0.0014	0.0019	0.8
		January	2025	56	0.64	15	18	0.087	8.9	0.031	0.12	0.04	0.33	0.00041	0.019	0.022	0.000027	0.000037	0.071	0.000022	7.8	0.0091	0.0014	0.0018	0.8
		February		57	0.62	15	19	0.087	8.8	0.032	0.12	0.041	0.33	0.0004	0.019	0.023	0.000028	0.000038	0.071	0.000022	8.0	0.009	0.0013	0.0018	0.79
		March		58	0.59	16	20	0.086	8.8	0.033	0.12	0.041	0.33	0.00039	0.018	0.023	0.000028	0.00004	0.071	0.000022	8.1	0.009	0.0013	0.0018	0.79
		April		59	0.57	16	20	0.086	8.7	0.034	0.13	0.041	0.33	0.00038	0.018	0.023	0.000029	0.000041	0.071	0.000022	8.3	0.009	0.0013	0.0018	0.79
		May		60	0.55	16	21	0.086	8.7	0.035	0.13	0.042	0.33	0.00038	0.017	0.023	0.000029	0.000042	0.071	0.000022	8.4	0.009	0.0013	0.0018	0.78
		June		53	0.5	14	18	0.077	7.8	0.031	0.11	0.038	0.33	0.00034	0.016	0.021	0.000027	0.000038	0.063	0.00002	7.4	0.009	0.0012	0.0017	0.77
		July		46	0.55	13	15	0.074	7.4	0.025	0.10	0.035	0.33	0.00036	0.017	0.019	0.000024	0.000033	0.059	0.000018	6.5	0.009	0.0012	0.0016	0.78
		August		47	0.71	14	14	0.083	8.4	0.022	0.1	0.037	0.33	0.00043	0.02	0.021	0.000024	0.000033	0.065	0.00002	6.5	0.009	0.0014		

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25										0.1
CCME (CEQG-PAL [chronic]) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015		0.007
Constituent				Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Attenuation Pond	Closure	August	2022	0.00072	0.0026	2.5	0.41	0.0000089	0.0021	0.021	2.7	0.00039	0.00003	8.0	0.048	0.000018	0.00015	0.0011	0.0017	0.0036
		September		0.00065	0.0023	2.3	0.41	0.0000077	0.002	0.02	2.4	0.00031	0.000026	7.2	0.044	0.000016	0.00014	0.001	0.0015	0.0033
		October		0.00058	0.0023	2.5	0.34	0.0000069	0.0021	0.017	2.1	0.00027	0.000025	6.8	0.047	0.000015	0.00012	0.00099	0.0014	0.0031
		November		0.00056	0.0026	3.0	0.31	0.000007	0.0024	0.016	2.1	0.00026	0.000025	7.3	0.057	0.000016	0.00013	0.001	0.0015	0.0033
		December		0.00054	0.0028	3.4	0.29	0.000007	0.0027	0.015	2.0	0.00026	0.000025	7.7	0.065	0.000016	0.00013	0.0011	0.0015	0.0034
		January	2023	0.00052	0.0031	3.8	0.26	0.000007	0.0029	0.014	2.0	0.00025	0.000026	8.1	0.073	0.000016	0.00013	0.0011	0.0015	0.0035
		February		0.00051	0.0032	4.1	0.24	0.000007	0.0031	0.013	2.0	0.00025	0.000026	8.4	0.079	0.000017	0.00013	0.0012	0.0015	0.0036
		March		0.0005	0.0034	4.4	0.23	0.0000071	0.0033	0.012	2.0	0.00024	0.000026	8.6	0.085	0.000017	0.00014	0.0012	0.0015	0.0036
		April		0.00049	0.0035	4.6	0.21	0.0000071	0.0035	0.012	2.0	0.00024	0.000026	8.9	0.089	0.000017	0.00014	0.0012	0.0015	0.0037
		May		0.00048	0.0036	4.9	0.2	0.0000071	0.0036	0.011	2.0	0.00024	0.000027	9.1	0.094	0.000018	0.00014	0.0013	0.0015	0.0038
		June		0.00042	0.003	3.9	0.17	0.000006	0.0029	0.01	1.7	0.0002	0.000024	7.3	0.075	0.000016	0.00012	0.001	0.0014	0.0032
		July		0.00042	0.0025	3.2	0.19	0.0000056	0.0024	0.011	1.6	0.00019	0.000022	6.2	0.059	0.000014	0.00011	0.00091	0.0013	0.0029
		August		0.00047	0.0026	3.1	0.23	0.0000064	0.0024	0.013	1.9	0.00022	0.000023	6.5	0.058	0.000015	0.00012	0.001	0.0014	0.0031
		September		0.00048	0.0025	2.9	0.25	0.0000066	0.0024	0.013	2.0	0.00022	0.000023	6.4	0.056	0.000015	0.00012	0.001	0.0014	0.0031
		October		0.00047	0.0025	2.9	0.24	0.0000065	0.0024	0.013	1.9	0.00022	0.000023	6.4	0.056	0.000015	0.00012	0.001	0.0014	0.0031
		November		0.00046	0.0026	3.1	0.23	0.0000065	0.0025	0.013	1.9	0.00022	0.000023	6.5	0.059	0.000015	0.00012	0.001	0.0014	0.0031
		December		0.00046	0.0027	3.3	0.23	0.0000065	0.0026	0.012	1.9	0.00022	0.000023	6.7	0.062	0.000015	0.00012	0.001	0.0014	0.0031
		January	2024	0.00046	0.0027	3.4	0.22	0.0000065	0.0027	0.012	1.9	0.00022	0.000023	6.9	0.065	0.000015	0.00012	0.0011	0.0014	0.0032
		February		0.00046	0.0028	3.5	0.21	0.0000065	0.0028	0.012	1.9	0.00022	0.000024	7.1	0.067	0.000015	0.00012	0.0011	0.0014	0.0032
		March		0.00045	0.0029	3.7	0.21	0.0000065	0.0028	0.012	1.9	0.00022	0.000024	7.2	0.07	0.000016	0.00012	0.0011	0.0014	0.0033
		April		0.00045	0.003	3.8	0.2	0.0000065	0.0029	0.011	1.9	0.00021	0.000024	7.4	0.073	0.000016	0.00012	0.0011	0.0014	0.0033
		May		0.00045	0.003	3.9	0.2	0.0000065	0.003	0.011	1.9	0.00021	0.000024	7.5	0.075	0.000016	0.00012	0.0011	0.0014	0.0033
		June		0.00041	0.0027	3.5	0.18	0.0000058	0.0027	0.011	1.7	0.00019	0.000023	6.7	0.066	0.000015	0.00011	0.001	0.0014	0.003
		July		0.00041	0.0024	3.0	0.19	0.0000057	0.0023	0.011	1.7	0.00019	0.000022	6.0	0.057	0.000014	0.00011	0.00093	0.0013	0.0029
		August		0.00046	0.0025	3.0	0.23	0.0000065	0.0024	0.013	1.9	0.00022	0.000023	6.3	0.056	0.000015	0.00012	0.001	0.0014	0.0031
		September		0.00047	0.0024	2.8	0.25	0.0000067	0.0023	0.013	2.0	0.00022	0.000023	6.2	0.053	0.000015	0.00012	0.001	0.0014	0.0031
		October		0.00046	0.0024	2.8	0.24	0.0000066	0.0023	0.013	2.0	0.00022	0.000023	6.1	0.052	0.000015	0.00012	0.0010	0.0014	0.003
		November		0.00046	0.0024	2.9	0.23	0.0000065	0.0023	0.013	1.9	0.00022	0.000023	6.1	0.054	0.000015	0.00012	0.0010	0.0014	0.003
		December		0.00045	0.0025	3.0	0.23	0.0000065	0.0024	0.012	1.9	0.00021	0.000023	6.2	0.056	0.000015	0.00012	0.001	0.0014	0.0031
		January	2025	0.00045	0.0025	3.1	0.22	0.0000065	0.0024	0.012	1.9	0.00021	0.000023	6.3	0.058	0.000015	0.00012	0.001	0.0014	0.0031
		February		0.00044	0.0026	3.1	0.21	0.0000065	0.0025	0.012	1.9	0.00021	0.000023	6.3	0.059	0.000015	0.00012	0.001	0.0014	0.0031
		March		0.00044	0.0026	3.2	0.21	0.0000065	0.0025	0.012	1.9	0.00021	0.000023	6.4	0.061	0.000015	0.00012	0.001	0.0014	0.0031
		April		0.00043	0.0027	3.3	0.2	0.0000065	0.0025	0.011	1.9	0.00021	0.000023	6.5	0.062	0.000015	0.00012	0.001	0.0014	0.0031
		May		0.00043	0.0027	3.4	0.19	0.0000065	0.0026	0.011	1.8	0.0002	0.000023	6.5	0.064	0.000016	0.00012	0.001	0.0014	0.0031
		June		0.0004	0.0024	3.0	0.18	0.0000059	0.0023	0.011	1.7	0.00018	0.000022	5.7	0.056	0.000015	0.00011	0.0009	0.0014	0.0029
		July		0.0004	0.0022	2.6	0.19	0.0000057	0.002	0.011	1.6	0.00018	0.000021	5.2	0.048	0.000014	0.00011	0.00083	0.0013	0.0027
		August		0.00044	0.0022	2.5	0.23	0.0000065	0.002	0.013	1.9	0.00021	0.000022	5.4	0.047	0.000015	0.00012	0.00091	0.0014	0.0029
		September		0.00046	0.0022	2.4	0.24	0.0000067	0.0019	0.013	1.9	0.00021	0.000023	5.4	0.044	0.000015	0.00012	0.00092	0.0014	0.0029
		October		0.00045	0.0021	2.3	0.23	0.0000065	0.0019	0.013	1.9	0.00021	0.000022	5.2	0.043	0.000015	0.00012	0.00088	0.0014	0.0028
		November		0.00044	0.0022	2.4	0.23	0.0000066	0.0019	0.013	1.8	0.0002	0.000022	5.2	0.044	0.000015	0.00012	0.00087	0.0014	0.0028
		December		0.00043	0.0022	2.4	0.22	0.0000066	0.0019	0.012	1.8	0.0002	0.000023	5.2	0.045	0.000015	0.00012	0.00087	0.0014	0.0029
		January	2026	0.00043	0.0022	2.5	0.21	0.0000066	0.0019	0.012	1.8	0.0002	0.000023	5.2	0.046	0.000015	0.00012	0.00086	0.0014	0.0029
		February		0.00042	0.0022	2.5	0.2	0.0000066	0.0019	0.012	1.8	0.00019	0.000023	5.2	0.047	0.000015	0.00012	0.00085	0.0014	0.0029
		March		0.00042	0.0023	2.6	0.2	0.0000066	0.0019	0.012	1.7	0.00019	0.000023	5.2	0.047	0.000015	0.00012	0.00084	0.0014	0.0029
		April		0.00041	0.0023	2.6	0.19	0.0000066	0.0019	0.011	1.7	0.00019	0.000023	5.2	0.048	0.000016	0.00012	0.00083	0.0014	0.0029
		May		0.00041	0.0023	2.7	0.19	0.0000066	0.0019	0.011	1.7	0.00019	0.000023	5.1	0.049	0.000016	0.00012	0.00083	0.0014	0.0029
		June		0.00037	0.002	2.3	0.16	0.0000058	0.0016	0.01	1.5	0.00016	0.000022	4.4	0.042	0.000015	0.00011	0.00071	0.0014	0.0026
		July		0.00024	0.0015	1.5	0.054	0.0000056	0.00059	0.0062	0.93	0.000091	0.000022	1.7	0.024	0.000016	0.00011	0.00028	0.0014	0.0021
		August		0.00021	0.0015	1.4														

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0
CCME (CEQG-PAL [chronic]) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.0004				0.002	0.3
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁶	Ca	Cr	Co	Cu ⁵	Fe
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Attenuation Pond	Closure, fully flooded pit	July	2027	13	0.025	5.3	3.3	0.031	1.7	0.0084	0.013	0.0036	0.022	0.00012	0.00064	0.0051	0.000022	0.000054	0.012	0.0000058	2.4	0.0007	0.00015	0.0006	0.071
		August		13	0.018	5.2	3.2	0.031	1.6	0.0081	0.012	0.0035	0.022	0.00011	0.00059	0.005	0.000022	0.000054	0.012	0.0000058	2.4	0.0007	0.00015	0.0006	0.071
		September		12	0.012	5.1	3.1	0.03	1.6	0.0078	0.01	0.0033	0.022	0.00011	0.00054	0.005	0.000022	0.000053	0.011	0.0000057	2.3	0.0007	0.00015	0.00059	0.071
		October		12	0.0096	5.0	3.1	0.03	1.6	0.0076	0.0097	0.0032	0.022	0.00011	0.00052	0.0049	0.000022	0.000053	0.011	0.0000056	2.3	0.0007	0.00014	0.00059	0.07
		November		12	0.0096	5.0	3.1	0.03	1.6	0.0076	0.0097	0.0032	0.022	0.00011	0.00052	0.0049	0.000022	0.000053	0.011	0.0000056	2.3	0.0007	0.00014	0.00059	0.07
		December		12	0.0096	5.0	3.1	0.03	1.6	0.0076	0.0097	0.0032	0.022	0.00011	0.00052	0.0049	0.000022	0.000053	0.011	0.0000056	2.3	0.0007	0.00014	0.00059	0.07
		January	2028	12	0.0096	5.0	3.1	0.03	1.6	0.0076	0.0097	0.0032	0.022	0.00011	0.00052	0.0049	0.000022	0.000053	0.011	0.0000056	2.3	0.0007	0.00014	0.00059	0.07
		February		12	0.0096	5.0	3.1	0.03	1.6	0.0076	0.0097	0.0032	0.022	0.00011	0.00052	0.0049	0.000022	0.000053	0.011	0.0000056	2.3	0.0007	0.00014	0.00059	0.07
		March		12	0.0096	5.0	3.1	0.03	1.6	0.0076	0.0097	0.0032	0.022	0.00011	0.00052	0.0049	0.000022	0.000053	0.011	0.0000056	2.3	0.0007	0.00014	0.00059	0.07
		April		12	0.0096	5.0	3.1	0.03	1.6	0.0076	0.0097	0.0032	0.022	0.00011	0.00052	0.0049	0.000022	0.000053	0.011	0.0000056	2.3	0.0007	0.00014	0.00059	0.07
		May		12	0.0096	5.0	3.1	0.03	1.6	0.0076	0.0097	0.0032	0.022	0.00011	0.00052	0.0049	0.000022	0.000053	0.011	0.0000056	2.3	0.0007	0.00014	0.00059	0.07
		June		13	0.0058	5.3	3.2	0.031	1.6	0.0078	0.0091	0.0033	0.022	0.00012	0.0005	0.0051	0.000023	0.000056	0.012	0.0000059	2.4	0.00071	0.00015	0.00062	0.071
		July		12	0.0026	5.1	3.0	0.03	1.5	0.0073	0.008	0.0031	0.022	0.00011	0.00047	0.0049	0.000022	0.000055	0.011	0.0000057	2.3	0.0007	0.00014	0.0006	0.071
		August		12	0.0019	5.1	2.9	0.03	1.5	0.0072	0.0076	0.0031	0.022	0.00011	0.00046	0.0049	0.000022	0.000054	0.011	0.0000056	2.3	0.0007	0.00014	0.0006	0.071
		September		12	0.0013	5.0	2.9	0.03	1.5	0.007	0.0073	0.003	0.022	0.00011	0.00045	0.0048	0.000022	0.000054	0.011	0.0000055	2.3	0.0007	0.00014	0.00059	0.071
		October		12	0.001	4.9	2.9	0.029	1.5	0.0069	0.0071	0.003	0.022	0.00011	0.00045	0.0048	0.000022	0.000053	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.07
		November		12	0.001	4.9	2.9	0.029	1.5	0.0069	0.0071	0.003	0.022	0.00011	0.00045	0.0048	0.000022	0.000053	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.07
		December		12	0.001	4.9	2.9	0.029	1.5	0.0069	0.0071	0.003	0.022	0.00011	0.00045	0.0048	0.000022	0.000053	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.07
		January	2029	12	0.001	4.9	2.9	0.029	1.5	0.0069	0.0071	0.003	0.022	0.00011	0.00045	0.0048	0.000022	0.000053	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.07
		February		12	0.001	4.9	2.9	0.029	1.5	0.0069	0.0071	0.003	0.022	0.00011	0.00045	0.0048	0.000022	0.000053	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.07
		March		12	0.001	4.9	2.9	0.029	1.5	0.0069	0.0071	0.003	0.022	0.00011	0.00045	0.0048	0.000022	0.000053	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.07
		April		12	0.001	4.9	2.9	0.029	1.5	0.0069	0.0071	0.003	0.022	0.00011	0.00045	0.0048	0.000022	0.000053	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.07
		May		12	0.001	4.9	2.9	0.029	1.5	0.0069	0.0071	0.003	0.022	0.00011	0.00045	0.0048	0.000022	0.000053	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.07
		June		12	0.00064	5.2	3.0	0.031	1.6	0.0072	0.0072	0.0031	0.022	0.00011	0.00046	0.005	0.000023	0.000056	0.011	0.0000058	2.4	0.00071	0.00015	0.00062	0.071
		July		12	0.00029	5.1	2.9	0.03	1.5	0.0068	0.0067	0.003	0.022	0.00011	0.00045	0.0049	0.000022	0.000055	0.011	0.0000056	2.3	0.0007	0.00014	0.0006	0.071
		August		12	0.00022	5.0	2.8	0.03	1.5	0.0067	0.0066	0.003	0.022	0.00011	0.00045	0.0048	0.000022	0.000054	0.011	0.0000056	2.3	0.0007	0.00014	0.0006	0.071
		September		11	0.00015	5.0	2.8	0.029	1.5	0.0066	0.0065	0.003	0.022	0.00011	0.00044	0.0048	0.000022	0.000054	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.071
		October		11	0.00012	4.9	2.8	0.029	1.5	0.0066	0.0064	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.07
		November		11	0.00012	4.9	2.8	0.029	1.5	0.0066	0.0064	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.07
		December		11	0.00012	4.9	2.8	0.029	1.5	0.0066	0.0064	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.07
		January	2030	11	0.00012	4.9	2.8	0.029	1.5	0.0066	0.0064	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.07
		February		11	0.00012	4.9	2.8	0.029	1.5	0.0066	0.0064	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.07
		March		11	0.00012	4.9	2.8	0.029	1.5	0.0066	0.0064	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.07
		April		11	0.00012	4.9	2.8	0.029	1.5																

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25										0.1
CCME (CEQG-PAL [chronic]) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015		0.007
Constituent				Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Attenuation Pond	Closure, fully flooded pit	July	2027	0.000076	0.0011	0.9	0.0039	0.0000055	0.00014	0.001	0.5	0.000058	0.000012	0.74	0.016	0.000011	0.00011	0.000076	0.0006	0.0013
		August		0.000075	0.0011	0.88	0.0037	0.0000055	0.00012	0.001	0.48	0.000057	0.000012	0.72	0.016	0.000011	0.00011	0.000069	0.0006	0.0013
		September		0.000074	0.0011	0.87	0.0034	0.0000054	0.00011	0.001	0.47	0.000056	0.000011	0.7	0.016	0.000011	0.00011	0.000063	0.00059	0.0013
		October		0.000073	0.0011	0.86	0.0032	0.0000054	0.0001	0.001	0.46	0.000055	0.000011	0.68	0.015	0.000011	0.00011	0.00006	0.00059	0.0013
		November		0.000073	0.0011	0.86	0.0032	0.0000054	0.0001	0.001	0.46	0.000055	0.000011	0.68	0.015	0.000011	0.00011	0.00006	0.00059	0.0013
		December		0.000073	0.0011	0.86	0.0032	0.0000054	0.0001	0.001	0.46	0.000055	0.000011	0.68	0.015	0.000011	0.00011	0.00006	0.00059	0.0013
		January	2028	0.000073	0.0011	0.86	0.0032	0.0000054	0.0001	0.001	0.46	0.000055	0.000011	0.68	0.015	0.000011	0.00011	0.00006	0.00059	0.0013
		February		0.000073	0.0011	0.86	0.0032	0.0000054	0.0001	0.001	0.46	0.000055	0.000011	0.68	0.015	0.000011	0.00011	0.00006	0.00059	0.0013
		March		0.000073	0.0011	0.86	0.0032	0.0000054	0.0001	0.001	0.46	0.000055	0.000011	0.68	0.015	0.000011	0.00011	0.00006	0.00059	0.0013
		April		0.000073	0.0011	0.86	0.0032	0.0000054	0.0001	0.001	0.46	0.000055	0.000011	0.68	0.015	0.000011	0.00011	0.00006	0.00059	0.0013
		May		0.000073	0.0011	0.86	0.0032	0.0000054	0.0001	0.001	0.46	0.000055	0.000011	0.68	0.015	0.000011	0.00011	0.00006	0.00059	0.0013
		June		0.000076	0.0012	0.9	0.0032	0.0000057	0.000094	0.001	0.48	0.000058	0.000012	0.71	0.016	0.000012	0.00011	0.000057	0.00062	0.0013
		July		0.000074	0.0011	0.86	0.0029	0.0000055	0.00008	0.001	0.46	0.000056	0.000012	0.67	0.015	0.000011	0.00011	0.000052	0.0006	0.0013
		August		0.000074	0.0011	0.85	0.0028	0.0000054	0.000076	0.001	0.46	0.000055	0.000012	0.66	0.015	0.000011	0.00011	0.00005	0.0006	0.0013
		September		0.000073	0.0011	0.84	0.0028	0.0000054	0.000072	0.001	0.45	0.000054	0.000011	0.64	0.015	0.000011	0.00011	0.000049	0.00059	0.0013
		October		0.000072	0.0011	0.83	0.0027	0.0000053	0.000069	0.001	0.45	0.000054	0.000011	0.64	0.015	0.000011	0.00011	0.000048	0.00059	0.0012
		November		0.000072	0.0011	0.83	0.0027	0.0000053	0.000069	0.001	0.45	0.000054	0.000011	0.64	0.015	0.000011	0.00011	0.000048	0.00059	0.0012
		December		0.000072	0.0011	0.83	0.0027	0.0000053	0.000069	0.001	0.45	0.000054	0.000011	0.64	0.015	0.000011	0.00011	0.000048	0.00059	0.0012
		January	2029	0.000072	0.0011	0.83	0.0027	0.0000053	0.000069	0.001	0.45	0.000054	0.000011	0.64	0.015	0.000011	0.00011	0.000048	0.00059	0.0012
		February		0.000072	0.0011	0.83	0.0027	0.0000053	0.000069	0.001	0.45	0.000054	0.000011	0.64	0.015	0.000011	0.00011	0.000048	0.00059	0.0012
		March		0.000072	0.0011	0.83	0.0027	0.0000053	0.000069	0.001	0.45	0.000054	0.000011	0.64	0.015	0.000011	0.00011	0.000048	0.00059	0.0012
		April		0.000072	0.0011	0.83	0.0027	0.0000053	0.000069	0.001	0.45	0.000054	0.000011	0.64	0.015	0.000011	0.00011	0.000048	0.00059	0.0012
		May		0.000072	0.0011	0.83	0.0027	0.0000053	0.000069	0.001	0.45	0.000054	0.000011	0.64	0.015	0.000011	0.00011	0.000048	0.00059	0.0012
		June		0.000076	0.0012	0.87	0.0028	0.0000057	0.00007	0.001	0.47	0.000057	0.000012	0.67	0.016	0.000012	0.00011	0.000049	0.00062	0.0013
		July		0.000073	0.0011	0.85	0.0027	0.0000055	0.000064	0.001	0.46	0.000055	0.000012	0.64	0.015	0.000011	0.00011	0.000046	0.0006	0.0013
		August		0.000073	0.0011	0.84	0.0026	0.0000054	0.000063	0.001	0.45	0.000055	0.000012	0.63	0.015	0.000011	0.00011	0.000046	0.0006	0.0013
		September		0.000072	0.0011	0.83	0.0026	0.0000054	0.000061	0.001	0.45	0.000054	0.000011	0.62	0.015	0.000011	0.00011	0.000045	0.00059	0.0013
		October		0.000072	0.0011	0.82	0.0026	0.0000053	0.00006	0.001	0.44	0.000054	0.000011	0.62	0.015	0.000011	0.00011	0.000045	0.00059	0.0012
		November		0.000072	0.0011	0.82	0.0026	0.0000053	0.00006	0.001	0.44	0.000054	0.000011	0.62	0.015	0.000011	0.00011	0.000045	0.00059	0.0012
		December		0.000072	0.0011	0.82	0.0026	0.0000053	0.00006	0.001	0.44	0.000054	0.000011	0.62	0.015	0.000011	0.00011	0.000045	0.00059	0.0012
		January	2030	0.000072	0.0011	0.82	0.0026	0.0000053	0.00006	0.001	0.44	0.000054	0.000011	0.62	0.015	0.000011	0.00011	0.000045	0.00059	0.0012
		February		0.000072	0.0011	0.82	0.0026	0.0000053	0.00006	0.001	0.44	0.000054	0.000011	0.62	0.015	0.000011	0.00011	0.000045	0.00059	0.0012
		March		0.000072	0.0011	0.82	0.0026	0.0000053	0.00006	0.001	0.44	0.000054	0.000011	0.62	0.015	0.000011	0.00011	0.000045	0.00059	0.0012
		April		0.000072	0.0011	0.82	0.0026	0.0000053	0.00006	0.001	0.44	0.000054	0.000011	0.62	0.015	0.000011	0.00011	0.000045	0.00059	0.0012
		May		0.000072	0.0011	0.82	0.0026	0.0000053	0.00006	0.001	0.44	0.000054	0.000011	0.62	0.015	0.000011	0.00011	0.000045	0.00059	0.0012
		June		0.000075	0.0011	0.87	0.0027	0.0000057	0.000062	0.001	0.47	0.000057	0.000012	0.65	0.016	0.000012	0.00011	0.000046	0.00062	0.0013
		July		0.000073	0.0011	0.84	0.0026	0.0000055	0.000059	0.001	0.45	0.000055	0.000012	0.63	0.015	0.000011	0.00011	0.000044	0.0006	0.0013
		August		0.000073	0.0011	0.83	0.0026	0.0000054	0.000058	0.001	0.45	0.000055	0.000012	0.62	0.015	0.000011	0.00011	0.000044	0.0006	0.0013
		September		0.000072	0.0011	0.83	0.0026	0.0000054	0.000057	0.001	0.45	0.000054	0.000011	0.62	0.015	0.000011	0.00011	0.000044	0.00059	0.0013
		October		0.000072	0.0011	0.82	0.0025	0.0000053	0.000056	0.001	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		November		0.000072	0.0011	0.82	0.0025	0.0000053	0.000056	0.001	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		December		0.000072	0.0011	0.82	0.0025	0.0000053	0.000056	0.001	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		January	2031	0.000072	0.0011	0.82	0.0025	0.0000053	0.000056	0.001	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		February		0.000072	0.0011	0.82	0.0025	0.0000053	0.000056	0.001	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		March		0.000072	0.0011	0.82	0.0025	0.0000053	0.000056	0.001	0.44	0.00000								

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0
CCME (CEQG-PAL [chronic]) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004				0.002	0.3
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁵	Ca	Cr	Co	Cu ⁶	Fe
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Attenuation Pond	Closure, fully flooded pit	January	2033	11	0.00000079	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		February		11	0.00000079	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		March		11	0.00000079	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		April		11	0.00000079	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		May		11	0.00000079	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		June		12	0.00000062	5.2	2.9	0.031	1.5	0.0068	0.0063	0.003	0.022	0.00011	0.00045	0.005	0.000023	0.000056	0.011	0.0000058	2.3	0.00071	0.00015	0.00061	0.071
		July		12	0.00000042	5.0	2.8	0.03	1.5	0.0066	0.0062	0.003	0.022	0.00011	0.00044	0.0048	0.000022	0.000055	0.011	0.0000056	2.3	0.0007	0.00014	0.0006	0.071
		August		11	0.00000036	5.0	2.8	0.03	1.5	0.0065	0.0061	0.0029	0.022	0.00011	0.00044	0.0048	0.000022	0.000054	0.011	0.0000055	2.2	0.0007	0.00014	0.0006	0.071
		September		11	0.00000029	4.9	2.7	0.029	1.5	0.0064	0.0061	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000054	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.071
		October		11	0.00000026	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		November		11	0.00000026	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		December		11	0.00000026	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		January	2034	11	0.00000026	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		February		11	0.00000026	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		March		11	0.00000026	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		April		11	0.00000026	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		May		11	0.00000026	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		June		12	0.00000021	5.2	2.9	0.031	1.5	0.0068	0.0063	0.003	0.022	0.00011	0.00045	0.005	0.000023	0.000056	0.011	0.0000057	2.3	0.00071	0.00015	0.00061	0.071
		July		12	0.00000015	5.0	2.8	0.03	1.5	0.0065	0.0062	0.003	0.022	0.00011	0.00044	0.0048	0.000022	0.000055	0.011	0.0000056	2.3	0.0007	0.00014	0.0006	0.071
		August		11	0.00000013	5.0	2.8	0.03	1.5	0.0065	0.0061	0.0029	0.022	0.00011	0.00044	0.0048	0.000022	0.000054	0.011	0.0000055	2.2	0.0007	0.00014	0.0006	0.071
		September		11	0.00000001	4.9	2.7	0.029	1.5	0.0064	0.0061	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000054	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.071
		October		11	9.4E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		November		11	9.4E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		December		11	9.4E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		January	2035	11	9.4E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		February		11	9.4E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		March		11	9.4E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		April		11	9.4E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		May		11	9.4E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		June		12	7.7E-08	5.2	2.9	0.031	1.5	0.0068	0.0063	0.003	0.022	0.00011	0.00045	0.005	0.000023	0.000056	0.011	0.0000057	2.3	0.00071	0.00015	0.00061	0.071
		July		12	5.4E-08	5.0	2.8	0.03	1.5	0.0065	0.0061	0.003	0.022	0.00011	0.00044	0.0048	0.000022	0.000055	0.011	0.0000056	2.3	0.0007	0.00014	0.0006	0.071
		August		11	4.7E-08	5.0	2.8	0.03	1.5	0.0065	0.0061	0.0029	0.022	0.00011	0.00044	0.0048	0.000022	0.000054	0.011	0.0000055	2.2	0.0007	0.00014	0.0006	0.071
		September		11	3.9E-08	4.9	2.7	0.029	1.5	0.0064	0.0061	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000054	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.071
		October		11	3.5E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		November		11	3.5E-08	4.9	2.7	0.029	1.5	0.0064	0.006														

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)																			0.05					0.004			0.25									0.1							
CCME (CEQG-PAL [chronic]) ² (mg/L)																			0.001					0.000026		0.073		0.025			0.001		0.00025			0.0008			0.015			0.007	
			Constituent		Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn																						
LOCATION	Time Period		Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L																						
Whale Tail Attenuation Pond	Closure, fully flooded pit		January	2033	0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012																						
			February		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012																						
			March		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012																						
			April		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012																						
			May		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012																						
			June		0.000075	0.0011	0.86	0.0026	0.0000057	0.000058	0.001	0.47	0.000057	0.000012	0.64	0.015	0.000012	0.00011	0.000045	0.00062	0.0013																						
			July		0.000073	0.0011	0.84	0.0026	0.0000055	0.000056	0.001	0.45	0.000055	0.000012	0.62	0.015	0.000011	0.00011	0.000044	0.0006	0.0013																						
			August		0.000073	0.0011	0.83	0.0025	0.0000054	0.000056	0.001	0.45	0.000054	0.000012	0.62	0.015	0.000011	0.00011	0.000044	0.0006	0.0013																						
			September		0.000072	0.0011	0.82	0.0025	0.0000054	0.000055	0.001	0.45	0.000054	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0013																						
			October		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012																						
			November		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012																						
			December		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012																						
			January	2034	0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012																						
			February		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012																						
			March		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012																						
			April		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012																						
			May		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61</																												

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0
CCME (CEQG-PAL [chronic]) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004				0.002	0.3
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁵	Ca	Cr	Co	Cu ⁶	Fe
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Attenuation Pond	Closure, fully flooded pit, and Post Closure	January	2038	11	0	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		February		11	0	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		March		11	0	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		April		11	0	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		May		11	0	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		June		12	0	5.2	2.9	0.031	1.5	0.0068	0.0063	0.003	0.022	0.00011	0.00045	0.005	0.000023	0.000056	0.011	0.0000057	2.3	0.00071	0.00015	0.00061	0.071
		July		12	0	5.0	2.8	0.03	1.5	0.0065	0.0061	0.003	0.022	0.00011	0.00044	0.0048	0.000022	0.000055	0.011	0.0000056	2.3	0.0007	0.00014	0.0006	0.071
		August		11	0	5.0	2.8	0.03	1.5	0.0065	0.0061	0.0029	0.022	0.00011	0.00044	0.0048	0.000022	0.000054	0.011	0.0000055	2.2	0.0007	0.00014	0.0006	0.071
		September		11	0	4.9	2.7	0.029	1.5	0.0064	0.0061	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000054	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.071
		October		11	0	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		November		11	0	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		December		11	0	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		January	≥2039	12	0.15	5.2	2.9	0.033	1.7	0.0065	0.0057	0.0025	0.0001	0.00014	0.0007	0.0047	0.000022	0.000054	0.011	0.0000056	2.4	0.00012	0.00012	0.00059	0.07
		February		12	0.15	5.2	2.9	0.033	1.7	0.0065	0.0057	0.0025	0.0001	0.00014	0.0007	0.0047	0.000022	0.000054	0.011	0.0000056	2.4	0.00012	0.00012	0.00059	0.07
		March		12	0.15	5.2	2.9	0.033	1.7	0.0065	0.0057	0.0025	0.0001	0.00014	0.0007	0.0047	0.000022	0.000054	0.011	0.0000056	2.4	0.00012	0.00012	0.00059	0.07
		April		12	0.15	5.2	2.9	0.033	1.7	0.0065	0.0057	0.0025	0.0001	0.00014	0.0007	0.0047	0.000022	0.000054	0.011	0.0000056	2.4	0.00012	0.00012	0.00059	0.07
		May		12	0.15	5.2	2.9	0.033	1.7	0.0065	0.0057	0.0025	0.0001	0.00014	0.0007	0.0047	0.000022	0.000054	0.011	0.0000056	2.4	0.00012	0.00012	0.00059	0.07
		June		12	0.096	5.1	2.8	0.031	1.6	0.0064	0.0057	0.0024	0.0001	0.00013	0.0005	0.0046	0.000022	0.000053	0.011	0.0000055	2.3	0.00011	0.00011	0.00061	0.071
		July		12	0.10	5.0	2.8	0.031	1.6	0.0064	0.0056	0.0024	0.0001	0.00013	0.00052	0.0046	0.000021	0.000053	0.011	0.0000054	2.3	0.00011	0.00011	0.0006	0.071
		August		12	0.16	5.2	2.8	0.033	1.7	0.0064	0.0057	0.0025	0.0001	0.00014	0.00072	0.0047	0.000022	0.000054	0.011	0.0000056	2.4	0.00012	0.00012	0.0006	0.071
		September		12	0.17	5.3	2.9	0.034	1.8	0.0065	0.0057	0.0025	0.0001	0.00015	0.00076	0.0047	0.000022	0.000054	0.011	0.0000056	2.4	0.00012	0.00012	0.00059	0.071
		October		12	0.15	5.2	2.9	0.033	1.7	0.0065	0.0057	0.0025	0.0001	0.00014	0.0007	0.0047	0.000022	0.000054	0.011	0.0000056	2.4	0.00012	0.00012	0.00059	0.07
		November		12	0.15	5.2	2.9	0.033	1.7	0.0065	0.0057	0.0025	0.0001	0.00014	0.0007	0.0047	0.000022	0.000054	0.011	0.0000056	2.4	0.00012	0.00012	0.00059	0.07
		December		12	0.15	5.2	2.9	0.033	1.7	0.0065	0.0057	0.0025	0.0001	0.00014	0.0007	0.0047	0.000022	0.000054	0.011	0.0000056	2.4	0.00012	0.00012	0.00059	0.07
		MINIMUM		11	0	4.9	2.7	0.029	1.5	0.0064	0.0056	0.0024	0.0001	0.00011	0.00044	0.0046	0.000021	0.000053	0.011	0.0000054	2.2	0.00011	0.00011	0.00059	0.07
		MAXIMUM		13	0.17	5.3	3.3	0.034	1.8	0.0084	0.013	0.0036	0.022	0.00015	0.00076	0.0051	0.000023	0.000056	0.012	0.0000059	2.4	0.00071	0.00015	0.00062	0.071
		AVERAGE		12	0.013	5.0	2.8	0.03	1.5	0.0066	0.0065	0.0029	0.02	0.00011	0.00047	0.0048	0.000022	0.000054	0.011	0.0000055	2.2	0.00066	0.00014	0.00059	0.071

Notes:

¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells

²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEQG's shown in bold-underlined type

³ CEQG Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed

⁴ CEQG Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.

⁶ CEQG Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 30 mg/L.

⁷ The CEQG aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25										0.1	
CCME (CEQG-PAL [chronic]) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015		0.007	
Constituent				Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Whale Tail Attenuation Pond	Closure, fully flooded pit, and Post Closure	January	2038	0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012	
		February		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012	
		March		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012	
		April		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012	
		May		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012	
		June		0.000075	0.0011	0.86	0.0026	0.0000057	0.000058	0.001	0.47	0.000057	0.000012	0.64	0.015	0.000012	0.00011	0.000045	0.00062	0.0013	
		July		0.000073	0.0011	0.84	0.0025	0.0000055	0.000056	0.001	0.45	0.000055	0.000012	0.62	0.015	0.000011	0.00011	0.000044	0.0006	0.0013	
		August		0.000073	0.0011	0.83	0.0025	0.0000054	0.000056	0.001	0.45	0.000054	0.000012	0.62	0.015	0.000011	0.00011	0.000044	0.0006	0.0013	
		September		0.000072	0.0011	0.82	0.0025	0.0000054	0.000055	0.001	0.45	0.000054	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0013	
		October		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012	
		November		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012	
		December		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012	
		January	≥2039	0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012	
		February		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012	
		March		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012	
		April		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012	
		May		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012	
		June		0.000075	0.0011	0.86	0.0026	0.0000057	0.000058	0.001	0.47	0.000057	0.000012	0.64	0.015	0.000012	0.00011	0.000045	0.00062	0.0013	
		July		0.000073	0.0011	0.84	0.0025	0.0000055	0.000056	0.001	0.45	0.000055	0.000012	0.62	0.015	0.000011	0.00011	0.000044	0.0006	0.0013	
		August		0.000073	0.0011	0.83	0.0025	0.0000054	0.000056	0.001	0.45	0.000054	0.000012	0.62	0.015	0.000011	0.00011	0.000044	0.0006	0.0013	
		September		0.000072	0.0011	0.82	0.0025	0.0000054	0.000055	0.001	0.45	0.000054	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0013	
		October		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012	
		November		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012	
		December		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012	
		MINIMUM			0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		MAXIMUM			0.000076	0.0012	0.9	0.0039	0.0000057	0.00014	0.001	0.5	0.000058	0.000012	0.74	0.016	0.000012	0.00011	0.000076	0.00062	0.0013
		AVERAGE			0.000072	0.0011	0.83	0.0026	0.0000054	0.000061	0.001	0.45	0.000054	0.000011	0.62	0.015	0.000011	0.00011	0.000045	0.00059	0.0013

Notes:

¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells

²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEQG's shown in bold-underlined type

³ CEQG Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed

⁴ CEQG Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.

⁶ CEQG Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 30 mg/L.

⁷ The CEQG aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

Site and Downstream Water Quality Model Predictions
Whale Tail Approved Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1			
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu			
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			
Effluent Discharge	Construction and Operations	January	2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		July		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		August		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		September		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2019	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		16	0.00051	5.4	5.2	0.026	2.1	0.0093	0.015	0.0091	0.12	0.00008	0.0017	0.0068	0.000018	0.000037	0.015	0.0000062	2.7	0.0032	0.00028	0.00065			
		July		65	0.66	13	25	0.059	6.4	0.076	1.8	0.026	0.13	0.00021	0.0068	0.016	0.000025	0.000042	0.048	0.000015	8.5	0.0037	0.00048	0.00098			
		August		125	0.063	26	58	0.1	11	0.08	0.19	0.047	0.16	0.00015	0.0034	0.032	0.000039	0.000057	0.11	0.000031	18	0.0045	0.00071	0.0015			
		September		169	0.0041	34	80	0.13	15	0.11	0.075	0.047	0.15	0.00015	0.0032	0.042	0.000045	0.000059	0.15	0.000041	24	0.0045	0.00085	0.0018			
		October		198	0.0032	39	94	0.15	18	0.12	0.086	0.041	0.27	0.00016	0.005	0.05	0.000051	0.00006	0.17	0.000048	28	0.0077	0.0011	0.0021			
		November		83	3.4	9.6	3.3	0.064	9.7	0.3	12	0.014	0.33	0.00079	0.035	0.011	0.000032	0.000058	0.015	0.0000091	5.7	0.0089	0.00089	0.0014			
		December		68	0.21	7.7	0.73	0.029	3.8	0.3	12	0.012	0.33	0.00016	0.0063	0.0074	0.000027	0.000053	0.01	0.000007	2.8	0.0087	0.00063	0.0008			
		January	2020	67	0.0088	7.5	0.57	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0045	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087	0.00061	0.00076			
		February		67	0.0004	7.5	0.56	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087	0.00061	0.00076			
		March		67	0.00002	7.5	0.56	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087	0.00061	0.00076			
		April		67	0.00000086	7.5	0.56	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087	0.00061	0.00076			
		May		67	3.9E-08	7.5	0.56	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087	0.00061	0.00076			
		June		44	0.77	6.8	2.1	0.047	4.6	0.15	6.1	0.0083	0.17	0.00046	0.02	0.0077	0.000025	0.000051	0.012	0.0000068	3.2	0.0046	0.00045	0.0011			
		July		122	1.9	29	40	0.11	18	0.084	1.9	0.044	0.16	0.0015	0.089	0.031	0.000038	0.000051	0.18	0.000031	16	0.0055	0.0013	0.0024			
		August		124	1.9	30	39	0.11	19	0.091	2.3	0.043	0.16	0.0016	0.095	0.031	0.000038	0.000052	0.19	0.000031	16	0.0056	0.0013	0.0024			
		September		109	0.97	25	38	0.09	14	0.089	2.2	0.04	0.16	0.00091	0.054	0.027	0.000035	0.00005	0.14	0.000026	14	0.0052	0.00097	0.0019			
		October		198	0.059	40	87	0.15	18	0.14	1.7	0.05	0.33	0.00035	0.014	0.049	0.000061	0.000087	0.18	0.000048	27	0.0093	0.0013	0.0024			
		November		215	0.0012	43	97	0.17	19	0.15	1.7	0.05	0.33	0.00023	0.0056	0.054	0.000064	0.000091	0.18	0.000051	29	0.0092	0.0013	0.0025			
		December		214	0.00087	43	97	0.17	19	0.15	1.6	0.05	0.33	0.00022	0.0055	0.053	0.000064	0.000091	0.18	0.000051	29	0.0092	0.0013	0.0025			
		January	2021	134	0.0011	28	58	0.12	12	0.11	1.3	0.05	0.33	0.00021	0.0051	0.035	0.000054	0.000089	0.11	0.000034	19	0.009	0.001	0.002			
		February		122	0.0011	26	52	0.11	11	0.11	1.3	0.05	0.33	0.00021	0.005	0.033	0.000053	0.000089	0.1	0.000032	17	0.009	0.00099	0.0019			
		March		122	0.0011	26	52	0.11	11	0.11	1.3	0.05	0.33	0.00021	0.005	0.033	0.000053	0.000089	0.1	0.000031	17	0.009	0.00099	0.0019			
		April		121	0.0011	26	52	0.11	11	0.11	1.3	0.05	0.33	0.00021	0.005	0.032	0.000052	0.000089	0.1	0.000031	17	0.009	0.00098	0.0019			
		May		123	0.0011	26	52	0.11	11	0.12	1.4	0.05	0.33	0.00021	0.005	0.033	0.000053	0.000089	0.1	0.000032	17	0.009	0.00099	0.0019			
		June		51	0.57	12	13	0.048	6.5	0.08	2.6	0.018	0.16	0.00051	0.029	0.013	0.000025	0.000044	0.059	0.000013	6.0	0.0047	0.00062	0.0012			
		July		80	2.2	22	17	0.08	16	0.077	2.3	0.027	0.16	0.0017	0.094	0.021	0.000031	0.000046	0.15	0.000021	10	0.0056	0.0012	0.0022			
		August		81	2.1	23	17	0.079	16	0.076	2.3	0.027	0.16	0.0017	0.1	0.021	0.000032	0.000047	0.16	0.000021	10	0.0057	0.0013	0.0022			
		September		64	1.1	17	16	0.06	10	0.074	2.2	0.023	0.16	0.001	0.062	0.016	0.000028	0.000044	0.1	0.000016	7.9	0.0051	0.00087	0.0016			
		October		103	0.08	23	41	0.093	9.8	0.11	1.7	0.045	0.33	0.00037	0.017	0.027	0.000048	0.000082	0.10	0.000027	14	0.0091	0.00097	0.0019			
		November		110	0.0037	23	46	0.1	9.8	0.11	1.5	0.049	0.33	0.00021	0.0055	0.029	0.000051	0.000087	0.091	0.000029	15	0.009	0.00094	0.0018			
		December		113	0.002	24	47	0.1	10.0	0.12	1.7	0.05	0.33	0.0002	0.005	0.03	0.000051	0.000087	0.093	0.000029	16	0.009	0.00095	0.0018			
		January	2022	106	0.0019	23	44	0.097	9.4	0.12	1.6	0.047	0.33	0.0002	0.0049	0.028	0.00005	0.000087	0.087	0.000028	15	0.0089	0.00093	0.0018			
		February		104	0.0019	22	43	0.096	9.2	0.12	1.6	0.047	0.33	0.0002	0.0049	0.028	0.00005	0.000087	0.085	0.000027	14	0.0089	0.00092	0.0018			
		March		104	0.0019	22	43	0.096	9.2	0.12	1.6	0.047	0.33	0.0002	0.0049	0.028	0.00005	0.000087	0.085	0.000027	14	0.0089	0.00092	0.0018			
		April		105	0.0019	22	43	0.097	9.2	0.12	1.7	0.047	0.33	0.0002	0.0049												

Site and Downstream Water Quality Model Predictions
Whale Tail Approved Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05				0.004		0.25										0.1	
Constituent				Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Ag	Na	Sr	Ti	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Effluent Discharge	Construction and Operations	January	2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		July		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		August		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		September		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2019	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.26	0.00011	0.0011	1.1	0.01	0.0000035	0.00048	0.002	0.49	0.000049	0.000011	1.4	0.017	0.0000091	0.000092	0.00016	0.00066	0.0012	
		July		0.32	0.00019	0.0024	3.4	0.04	0.0000045	0.0025	0.0043	1.2	0.00012	0.000016	5.5	0.066	0.000011	0.000088	0.00078	0.00074	0.0022	
		August		0.37	0.00034	0.0047	7.4	0.078	0.0000046	0.0059	0.0039	1.8	0.0002	0.000018	13	0.15	0.000012	0.000096	0.0018	0.00087	0.0038	
		September		0.36	0.00042	0.0061	9.9	0.11	0.0000043	0.0082	0.0043	2.3	0.00026	0.000018	18	0.2	0.000011	0.00009	0.0024	0.00083	0.0047	
		October		0.61	0.00052	0.007	12	0.13	0.000004	0.0097	0.006	2.6	0.0003	0.000023	21	0.23	0.000013	0.000088	0.0029	0.0011	0.0055	
		November		0.78	0.00025	0.0019	1.8	0.041	0.0000095	0.0007	0.014	2.3	0.00014	0.000037	1.2	0.022	0.000025	0.00017	0.00025	0.0016	0.0027	
		December		0.7	0.00022	0.0013	1.5	0.015	0.0000053	0.00011	0.0051	0.87	0.00006	0.000022	0.56	0.012	0.000016	0.00012	0.00004	0.0014	0.0018	
		January	2020	0.69	0.00022	0.0013	1.5	0.013	0.000005	0.000073	0.0046	0.78	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000027	0.0013	0.0018	
		February		0.69	0.00022	0.0013	1.5	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000026	0.0013	0.0018	
		March		0.69	0.00022	0.0013	1.5	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000026	0.0013	0.0018	
		April		0.69	0.00022	0.0013	1.5	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000026	0.0013	0.0018	
		May		0.69	0.00022	0.0013	1.5	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000026	0.0013	0.0018	
		June		0.38	0.00016	0.0013	1.1	0.016	0.0000065	0.00028	0.0047	1.2	0.000093	0.000019	1.1	0.014	0.000015	0.00014	0.00017	0.0011	0.0017	
		July		0.55	0.0006	0.0041	5.7	0.19	0.0000093	0.0046	0.013	3.5	0.00051	0.000035	12	0.11	0.00002	0.00015	0.0015	0.0015	0.0042	
		August		0.57	0.00062	0.0041	5.7	0.18	0.0000095	0.0046	0.012	3.6	0.00055	0.000036	13	0.11	0.00002	0.00015	0.0015	0.0015	0.0043	
		September		0.49	0.00045	0.0037	5.3	0.12	0.0000069	0.0042	0.008	2.5	0.00037	0.000027	11	0.1	0.000016	0.00012	0.0013	0.0012	0.0036	
		October		0.74	0.00057	0.0072	11	0.13	0.0000072	0.0089	0.007	2.9	0.00035	0.000031	20	0.22	0.00002	0.00015	0.0027	0.0016	0.006	
		November		0.72	0.00057	0.0078	12	0.13	0.0000071	0.0099	0.0069	2.9	0.00034	0.000031	21	0.25	0.00002	0.00015	0.0029	0.0016	0.0063	
		December		0.72	0.00057	0.0078	12	0.13	0.0000071	0.0098	0.0069	2.9	0.00033	0.000031	21	0.25	0.00002	0.00015	0.0029	0.0016	0.0063	
		January	2021	0.72	0.00043	0.0053	7.9	0.084	0.0000076	0.0058	0.0061	2.1	0.00023	0.00003	13	0.15	0.000021	0.00016	0.0017	0.0016	0.0047	
		February		0.72	0.00041	0.005	7.2	0.077	0.0000077	0.0052	0.006	1.9	0.00022	0.000029	11	0.14	0.000021	0.00016	0.0016	0.0016	0.0045	
		March		0.72	0.00041	0.005	7.2	0.076	0.0000077	0.0052	0.006	1.9	0.00022	0.000029	11	0.14	0.000021	0.00016	0.0015	0.0016	0.0045	
		April		0.72	0.0004	0.0049	7.1	0.076	0.0000077	0.0051	0.006	1.9	0.00021	0.000029	11	0.14	0.000021	0.00016	0.0015	0.0016	0.0045	
		May		0.72	0.00041	0.005	7.2	0.077	0.0000077	0.0052	0.006	1.9	0.00022	0.000029	11	0.14	0.000021	0.00016	0.0016	0.0016	0.0045	
		June		0.43	0.00026	0.0019	2.2	0.057	0.0000055	0.0014	0.0054	1.3	0.00018	0.00002	4.0	0.04	0.000013	0.00011	0.00046	0.001	0.0021	
		July		0.56	0.00055	0.0027	3.1	0.17	0.0000097	0.0023	0.013	3.2	0.0005	0.000036	7.7	0.058	0.00002	0.00015	0.00079	0.0015	0.0034	
		August		0.57	0.00057	0.0027	3.1	0.16	0.000010	0.0022	0.013	3.3	0.00053	0.000037	7.9	0.058	0.000021	0.00016	0.00079	0.0016	0.0034	
		September		0.5	0.00039	0.0023	2.7	0.097	0.0000072	0.0019	0.008	2.1	0.00033	0.000026	5.9	0.05	0.000016	0.00013	0.00063	0.0013	0.0027	
		October		0.75	0.00041	0.0042	5.8	0.069	0.0000079	0.004	0.0062	1.9	0.00024	0.00003	9.5	0.11	0.000021	0.00016	0.0012	0.0017	0.0041	
		November		0.72	0.00038	0.0045	6.4	0.068	0.0000078	0.0045	0.0059	1.8	0.0002	0.000029	10	0.12	0.000021	0.00016	0.0013	0.0016	0.0042	
		December		0.71	0.00039	0.0046	6.6	0.069	0.0000077	0.0046	0.0059	1.8	0.0002	0.000029	10	0.13	0.000021	0.00016	0.0014	0.0016	0.0043	
		January	2022	0.71	0.00037	0.0044	6.2	0.065	0.0000078	0.0043	0.0059	1.7	0.00019	0.000029	9.6	0.12	0.000021	0.00016	0.0013	0.0016	0.0041	
		February		0.71	0.00037	0.0044	6.1	0.064	0.0000078	0.0042	0.0058	1.7	0.00019	0.000029	9.4	0.12	0.000021	0.00016	0.0013	0.0016	0.0041	
		March		0.71	0.00037	0.0044	6.1	0.064	0.0000078	0.0042	0.0058	1.7	0.00019	0.000029	9.4	0.12	0.000021	0.00016	0.0013	0.0016	0.0041	
		April		0.71	0.00037	0.0044	6.1	0.064	0.0000078	0.0042	0.0058	1.7	0.00019	0.000029	9.4	0.12	0.000021	0.00016	0.0013	0.0016	0.0041	
		May		0.71	0.00037	0.0044	6.1	0.064	0.0000078	0.0042	0.0058	1.7	0.00019	0.000029	9.4	0.12	0.000021	0.00016	0.0013	0.0016	0.0041	
		June		0.43	0.00025	0.0018	2.0	0.056	0.0000058	0.0012	0.0059	1.4	0.00019	0.000021	3.6	0.035	0.000014	0.00012	0.0004	0.001	0.0021	
		July		0.56	0.0005	0.0025	2.8	0.15	0.0000098	0.002	0.014	3.0	0.00046	0.000037	6.7	0.051	0.000021	0.00015	0.00066	0.0015	0.0032	
		MINIMUM		0.26	0.00011	0.0011	1.1	0.01	0.0000035	0.000072	0.002	0.49	0.000049	0.000011	0.52	0.011	0.0000091	0.000088	0.000026	0.00066	0.0012	
		MAXIMUM	0.78	0.00062	0.0078	12	0.19	0.000010	0.0099	0.014	3.6	0.00055	0.000037	21	0.25	0.000025	0.00017	0.0029	0.0017	0.0063		
		AVERAGE	0.62	0.00038	0.0037	5.3	0.079	0.0000069	0.0037	0.0068	1.9	0.00023	0.000027	8.7	0.099	0.000018	0.00014	0.0011	0.0014	0.0036		

Site and Downstream Water Quality Model Predictions
Whale Tail Approved Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ^a (mg/L)				1400						16		2.93	0.3	0.5		0.1					1.5	0.002		0.02		0.1
CCME (CEQG-PAL (chronic)) ^b (mg/L)							120	0.12				2.93	0.01	0.1		0.025					1.5	0.00004				0.002
LOCATION	Time Period	Month	Year	Constituent	TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁸	Ca	Cr	Co	Cu ⁸	
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Mammoth Lake	Construction and Operations	January	2018		25	0	8.8	7.1	0.044	3.9	0.011	0.0087	0.0042	0.013	0.00017	0.00066	0.01	0.000034	0.000085	0.017	0.0000086	5.3	0.00021	0.00017	0.00088	
		February			25	0	8.8	7.1	0.044	3.9	0.011	0.0087	0.0042	0.013	0.00017	0.00066	0.01	0.000034	0.000085	0.017	0.0000086	5.3	0.00021	0.00017	0.00088	
		March			25	0	8.8	7.1	0.044	3.9	0.011	0.0087	0.0042	0.013	0.00017	0.00066	0.01	0.000034	0.000085	0.017	0.0000086	5.3	0.00021	0.00017	0.00088	
		April			25	0	8.8	7.1	0.044	3.9	0.011	0.0087	0.0042	0.013	0.00017	0.00066	0.01	0.000034	0.000085	0.017	0.0000086	5.3	0.00021	0.00017	0.00088	
		May			25	0	8.8	7.1	0.044	3.9	0.011	0.0087	0.0042	0.013	0.00017	0.00066	0.01	0.000034	0.000085	0.017	0.0000086	5.3	0.00021	0.00017	0.00088	
		June			14	0.000025	5.3	3.6	0.031	2.0	0.0069	0.010	0.0088	0.2	0.00012	0.00028	0.00073	0.000026	0.000056	0.011	0.0000066	3.0	0.0053	0.00042	0.00086	
		July			10	0.000065	4.0	2.4	0.025	1.3	0.0058	0.03	0.0098	0.26	0.0001	0.00034	0.00062	0.000022	0.000045	0.0086	0.0000057	2.1	0.0069	0.00049	0.00083	
		August			11	0.000096	4.1	2.5	0.026	1.4	0.0059	0.03	0.0099	0.26	0.0001	0.00035	0.00063	0.000023	0.000046	0.0088	0.0000058	2.2	0.0069	0.00049	0.00084	
		September			11	0.00016	4.2	2.5	0.026	1.4	0.0059	0.029	0.0099	0.26	0.0001	0.00035	0.00064	0.000023	0.000046	0.0089	0.0000058	2.2	0.0069	0.00049	0.00085	
		October			18	0.00033	7.1	4.3	0.044	2.4	0.01	0.048	0.017	0.43	0.00018	0.00059	0.011	0.000039	0.000079	0.015	0.0000099	3.8	0.012	0.00083	0.0014	
		November			18	0.00033	7.1	4.3	0.044	2.4	0.01	0.048	0.017	0.43	0.00018	0.00059	0.011	0.000039	0.000079	0.015	0.0000099	3.8	0.012	0.00083	0.0014	
		December			18	0.00033	7.1	4.3	0.044	2.4	0.01	0.048	0.017	0.43	0.00018	0.00059	0.011	0.000039	0.000079	0.015	0.0000099	3.8	0.012	0.00083	0.0014	
		January	2019		18	0.00033	7.1	4.3	0.044	2.4	0.01	0.048	0.017	0.43	0.00018	0.00059	0.011	0.000039	0.000079	0.015	0.0000099	3.8	0.012	0.00083	0.0014	
		February			18	0.00033	7.1	4.3	0.044	2.4	0.01	0.048	0.017	0.43	0.00018	0.00059	0.011	0.000039	0.000079	0.015	0.0000099	3.8	0.012	0.00083	0.0014	
		March			71	0.000032	10	33	0.045	6.2	0.023	0.051	0.0039	0.054	0.00011	0.001	0.032	0.000094	0.000053	0.01	0.0000055	19	0.0012	0.00017	0.00064	
		April			77	0	11	36	0.045	6.6	0.024	0.051	0.0025	0.013	0.00010	0.00049	0.034	0.000010	0.000005	0.010	0.0000005	20	0.00010	0.00010	0.00055	
		May			77	0	11	36	0.045	6.6	0.024	0.051	0.0025	0.013	0.00010	0.00049	0.034	0.000010	0.000005	0.010	0.0000005	20	0.00010	0.00010	0.00055	
		June			55	0.000010	7.9	25	0.034	4.8	0.018	0.036	0.0021	0.013	0.000078	0.0004	0.025	0.000072	0.000039	0.0079	0.0000039	14	0.00015	0.000082	0.00043	
		July			41	0.016	6.4	19	0.028	3.7	0.015	0.071	0.0035	0.022	0.000069	0.0006	0.018	0.000005	0.000033	0.0093	0.000004	10	0.00047	0.000099	0.0004	
		August			48	0.1	8.0	21	0.035	4.4	0.026	0.3	0.0076	0.04	0.000096	0.0017	0.018	0.000048	0.000036	0.018	0.0000064	11	0.00099	0.00017	0.00052	
		September			63	0.23	11	27	0.048	5.9	0.041	0.53	0.013	0.063	0.00014	0.0037	0.021	0.000047	0.00004	0.033	0.000011	12	0.0017	0.00028	0.00072	
		October			130	0.57	24	56	0.1	12	0.095	1.3	0.028	0.15	0.00028	0.0084	0.039	0.000075	0.000071	0.081	0.000025	22	0.0041	0.00065	0.0015	
		November			117	0.54	22	50	0.097	11	0.089	1.2	0.027	0.16	0.00028	0.0079	0.034	0.000067	0.000075	0.078	0.000024	19	0.0043	0.00065	0.0015	
		December			104	0.43	21	44	0.092	10.0	0.079	1.0	0.024	0.15	0.00026	0.0067	0.031	0.000062	0.000079	0.071	0.000023	17	0.004	0.00061	0.0015	
		January	2020		102	0.42	21	43	0.091	9.8	0.078	0.99	0.024	0.15	0.00026	0.0066	0.03	0.000061	0.000079	0.071	0.000022	17	0.004	0.0006	0.0015	
		February			102	0.42	21	43	0.091	9.8	0.078	1.0	0.024	0.15	0.00026	0.0066	0.03	0.000061	0.000079	0.071	0.000022	17	0.004	0.0006	0.0015	
		March			102	0.42	21	43	0.091	9.8	0.079	1.0	0.024	0.15	0.00026	0.0066	0.03	0.000061	0.000079	0.071	0.000022	17	0.004	0.0006	0.0015	
		April			102	0.42	21	43	0.091	9.8	0.079	1.0	0.024	0.15	0.00026	0.0066	0.03	0.000061	0.000079	0.071	0.000022	17	0.004	0.0006	0.0015	
		May			102	0.42	21	43	0.091	9.8	0.079	1.0	0.024	0.15	0.00026	0.0066	0.03	0.000061	0.000079	0.071	0.000022	17	0.004	0.0006	0.0015	
		June			70	0.25	15	29	0.065	6.8	0.057	0.79	0.017	0.11	0.00019	0.0047	0.02	0.000042	0.00006	0.05	0.000016	11	0.0029	0.00043	0.0011	
		July			49	0.17	11	20	0.048	4.9	0.042	0.54	0.013	0.081	0.00017	0.0052	0.014	0.000027	0.000046	0.04	0.000012	7.5	0.0022	0.00034	0.00082	
		August			53	0.26	12	21	0.052	5.8	0.044	0.61	0.015	0.085	0.00025	0.01	0.015	0.000028	0.000047	0.049	0.000013	7.9	0.0024	0.0004	0.00092	
		September			55	0.3	13	21	0.054	6.2	0.045	0.64	0.016	0.086	0.00029	0.013	0.015	0.000028	0.000047	0.054	0.000014	8.1	0.0024	0.00043	0.00097	
		October			96	0.49	22	37	0.092	11	0.077	1.1	0.028	0.15	0.00049	0.023	0.026	0.000047	0.00008	0.094	0.000024	14	0.0042	0.00073	0.0017	
		November			100	0.46	23	40	0.095	11	0.08	1.1	0.029	0.16	0.00047	0.021	0.027	0.000048	0.00008	0.097	0.000025	15	0.0044	0.00075	0.0017	
		December			105	0.43	23	42	0.098	11	0.082	1.1	0.03	0.16	0.00046	0.02	0.028	0.000048	0.000081	0.10	0.000026	15	0.0046	0.00077	0.0017	
		January	2021		107	0.4	24	43	0.099	11	0.084	1.1	0.03	0.17	0.00044	0.019	0.029	0.000049	0.000082	0.1	0.000027	15	0.0047	0.00078	0.0017	
		February			107	0.37	24	44	0.10	11	0.085	1.1	0.031	0.17	0.00042	0.018	0.029	0.000049	0.000082	0.1	0.000027	15	0.0048	0.00078	0.0017	
		March			107	0.35	24	44	0.10	11	0.086	1.0	0.031	0.18	0.00041	0.017	0.029	0.000049	0.000082	0.1	0.000027	15	0.0049	0.00078	0.0017	
		April			107	0.32	24	44	0.10	11	0.087	1.0	0.032	0.18	0.00039	0.016	0.029	0.000049	0.000083	0.099	0.000027	15	0.005	0.00078	0.0017	
		May			107	0.3	24	44	0.10	11	0.088	1.0	0.032	0.19	0.00038	0.015	0.029	0.000049	0.000083	0.099	0.000027	15	0.0051	0.00078	0.0017	
		June			72	0.19	16	29	0.069	7.3	0.063	0.7	0.022	0.13	0.00026	0.010	0.019	0.000034	0.000061	0.066	0.000019	10	0.0035	0.00053	0.0012	
		July			49	0.18	11	19	0.049	5.2	0.047	0.57	0.015	0.087	0.00022	0.0092	0.013	0.000025	0.000046	0.047	0.000013	7.0</				

Site and Downstream Water Quality Model Predictions
Whale Tail Approved Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05				0.004		0.25									0.1	
CCME (CEQG-PAL (chronic)) ² (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	0.007
Constituent				Fe	Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁸	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Mammoth Lake	Construction and Operations	January	2018	0.028	0.00013	0.0018	1.6	0.0041	0.0000085	0.000095	0.0014	1.0	0.000085	0.000017	1.0	0.034	0.000017	0.00017	0.000041	0.00085	0.0051
		February		0.028	0.00013	0.0018	1.6	0.0041	0.0000085	0.000095	0.0014	1.0	0.000085	0.000017	1.0	0.034	0.000017	0.00017	0.000041	0.00085	0.0051
		March		0.028	0.00013	0.0018	1.6	0.0041	0.0000085	0.000095	0.0014	1.0	0.000085	0.000017	1.0	0.034	0.000017	0.00017	0.000041	0.00085	0.0051
		April		0.028	0.00013	0.0018	1.6	0.0041	0.0000085	0.000095	0.0014	1.0	0.000085	0.000017	1.0	0.034	0.000017	0.00017	0.000041	0.00085	0.0051
		May		0.028	0.00013	0.0018	1.6	0.0041	0.0000085	0.000095	0.0014	1.0	0.000085	0.000017	1.0	0.034	0.000017	0.00017	0.000041	0.00085	0.0051
		June		0.43	0.00015	0.0013	1.1	0.009	0.0000055	0.00007	0.0032	0.64	0.000058	0.000018	0.64	0.019	0.000014	0.00011	0.000043	0.0011	0.0025
		July		0.55	0.00015	0.0011	0.98	0.011	0.0000043	0.000059	0.0038	0.5	0.000047	0.000017	0.49	0.014	0.000013	0.000092	0.000043	0.0011	0.0017
		August		0.56	0.00016	0.0011	0.99	0.011	0.0000044	0.00006	0.0038	0.51	0.000048	0.000018	0.5	0.014	0.000013	0.000093	0.000044	0.0011	0.0017
		September		0.55	0.00016	0.0011	1.0	0.011	0.0000045	0.000061	0.0038	0.52	0.000048	0.000018	0.51	0.014	0.000013	0.000094	0.000045	0.0011	0.0018
		October		0.93	0.00027	0.0019	1.7	0.018	0.0000076	0.0001	0.0064	0.89	0.000082	0.00003	0.88	0.024	0.000022	0.00016	0.000076	0.0019	0.003
		November		0.93	0.00027	0.0019	1.7	0.018	0.0000076	0.0001	0.0064	0.89	0.000082	0.00003	0.88	0.024	0.000022	0.00016	0.000076	0.0019	0.003
		December		0.93	0.00027	0.0019	1.7	0.018	0.0000076	0.0001	0.0064	0.89	0.000082	0.00003	0.88	0.024	0.000022	0.00016	0.000076	0.0019	0.003
		January	2019	0.93	0.00027	0.0019	1.7	0.018	0.0000076	0.0001	0.0064	0.89	0.000082	0.00003	0.88	0.024	0.000022	0.00016	0.000076	0.0019	0.003
		February		0.93	0.00027	0.0019	1.7	0.018	0.0000076	0.0001	0.0064	0.89	0.000082	0.00003	0.88	0.024	0.000022	0.00016	0.000076	0.0019	0.003
		March		0.099	0.000071	0.007	3.1	0.0033	0.0000053	0.00038	0.0024	2.4	0.000053	0.000012	1.7	0.17	0.000011	0.00011	0.000045	0.00063	0.003
		April		0.010	0.00005	0.0076	3.3	0.0018	0.000005	0.00041	0.002	2.6	0.00005	0.000010	1.8	0.18	0.000010	0.00010	0.000042	0.0005	0.003
		May		0.010	0.00005	0.0076	3.3	0.0018	0.000005	0.00041	0.002	2.6	0.00005	0.000010	1.8	0.18	0.000010	0.00010	0.000042	0.0005	0.003
		June		0.014	0.000042	0.0054	2.4	0.0016	0.0000039	0.0003	0.0015	1.9	0.000039	0.0000079	1.3	0.13	0.0000078	0.000078	0.000034	0.00039	0.0023
		July		0.04	0.000048	0.0038	1.9	0.0038	0.0000032	0.00037	0.0013	1.3	0.000037	0.0000071	1.3	0.091	0.0000067	0.000066	0.000075	0.00036	0.0019
		August		0.084	0.000077	0.0038	2.3	0.011	0.0000036	0.00082	0.0018	1.4	0.000054	0.0000088	2.2	0.093	0.0000077	0.000072	0.00022	0.00044	0.0021
		September		0.14	0.00012	0.0039	3.2	0.023	0.000004	0.0017	0.0026	1.5	0.000083	0.000011	3.9	0.1	0.0000089	0.00008	0.00048	0.00053	0.0024
		October		0.34	0.00029	0.0068	6.8	0.062	0.000007	0.0043	0.0056	2.7	0.00018	0.000022	9.7	0.19	0.000016	0.00014	0.0013	0.001	0.0047
		November		0.36	0.00029	0.006	6.2	0.059	0.0000073	0.004	0.0054	2.4	0.00018	0.000023	9.1	0.16	0.000017	0.00015	0.0012	0.0011	0.0049
		December		0.34	0.00028	0.0053	5.6	0.053	0.0000077	0.0036	0.0049	2.2	0.00017	0.000023	8.1	0.14	0.000018	0.00015	0.0011	0.0011	0.005
		January	2020	0.34	0.00027	0.0053	5.6	0.052	0.0000077	0.0035	0.0048	2.1	0.00017	0.000023	8.0	0.14	0.000018	0.00015	0.001	0.0011	0.0051
		February		0.34	0.00027	0.0053	5.6	0.052	0.0000077	0.0035	0.0048	2.1	0.00017	0.000023	8.0	0.14	0.000018	0.00015	0.001	0.0011	0.0051
		March		0.34	0.00027	0.0053	5.5	0.052	0.0000077	0.0035	0.0048	2.1	0.00017	0.000023	8.0	0.14	0.000018	0.00015	0.001	0.0011	0.0051
		April		0.34	0.00027	0.0053	5.5	0.052	0.0000077	0.0035	0.0048	2.1	0.00017	0.000023	8.0	0.14	0.000018	0.00015	0.001	0.0011	0.005
		May		0.34	0.00027	0.0053	5.5	0.052	0.0000077	0.0035	0.0048	2.1	0.00017	0.000023	8.0	0.14	0.000018	0.00015	0.001	0.0011	0.005
		June		0.24	0.0002	0.0035	3.8	0.036	0.0000058	0.0024	0.0033	1.4	0.00012	0.000017	5.6	0.091	0.000013	0.00012	0.00073	0.00083	0.0037
		July		0.18	0.00016	0.0023	2.7	0.03	0.0000045	0.0018	0.0025	1.0	0.0001	0.000013	4.2	0.06	0.00001	0.00009	0.00054	0.00064	0.0028
		August		0.21	0.00019	0.0024	2.9	0.039	0.0000048	0.002	0.003	1.1	0.00013	0.000014	4.7	0.062	0.000011	0.000095	0.0006	0.00069	0.003
		September		0.22	0.0002	0.0024	3.0	0.044	0.000005	0.002	0.0033	1.2	0.00014	0.000015	5.0	0.063	0.000011	0.000097	0.00063	0.00072	0.003
		October		0.37	0.00035	0.0041	5.2	0.076	0.0000084	0.0036	0.0056	2.1	0.00025	0.000026	8.7	0.11	0.000019	0.00016	0.0011	0.0012	0.0051
		November		0.38	0.00036	0.0043	5.5	0.078	0.0000084	0.0038	0.0056	2.1	0.00025	0.000026	9.1	0.11	0.000019	0.00016	0.0012	0.0012	0.0052
		December		0.4	0.00036	0.0044	5.8	0.079	0.0000083	0.0041	0.0056	2.1	0.00025	0.000026	9.6	0.12	0.000019	0.00016	0.0012	0.0012	0.0052
		January	2021	0.41	0.00037	0.0045	5.9	0.08	0.0000083	0.0042	0.0055	2.1	0.00025	0.000026	9.9	0.12	0.000019	0.00016	0.0013	0.0013	0.0053
		February		0.41	0.00037	0.0045	6.0	0.079	0.0000082	0.0042	0.0055	2.1	0.00025	0.000026	9.9	0.12	0.000019	0.00016	0.0013	0.0013	0.0053
		March		0.42	0.00036	0.0045	6.0	0.078	0.0000082	0.0043	0.0055	2.1	0.00024	0.000026	9.9	0.12	0.000019	0.00016	0.0013	0.0013	0.0052
		April		0.43	0.00036	0.0045	6.0	0.077	0.0000082	0.0043	0.0054	2.0	0.00024	0.000026	9.9	0.12	0.000019	0.00016	0.0013	0.0013	0.0052
		May		0.43	0.00036	0.0045	6.0	0.076	0.0000082	0.0043	0.0054	2.0	0.00024	0.000026	9.9	0.12	0.000019	0.00016	0.0013	0.0013	0.0052
		June		0.29	0.00025	0.0031	4.1	0.051	0.000006	0.0028	0.0036	1.4	0.00016	0.000018	6.6	0.082	0.000014	0.00012	0.00086	0.00092	0.0038
		July		0.21	0.00018	0.0021	2.7	0.037	0.0000046	0.0018	0.0028	1.0	0.00012	0.000014	4.4	0.055	0.00001	0.000092	0.00057	0.00068	0.0028
		August		0.22	0.0002	0.0021	2.7	0.043	0.000005	0.0018	0.0033	1.1	0.00014	0.000015	4.6	0.054	0.000011	0.000096	0.00057	0.00073	0.0029
		September		0.22	0.00021	0.0021	2.7	0.046	0.0000051	0.0018	0.0035	1.2	0.00015	0.000015	4.5	0.053	0.000011	0.000098	0.00056	0.00075	0.0029
		October		0.38	0.00035	0.0035	4.4	0.075	0.0000086	0.0029	0.0058	1.9	0.00025	0.000026	7.5	0.087	0.000019	0.00017	0.00092	0.0013	0.0048
		November		0.39	0.00035	0.0035	4.5	0.074	0.0000086	0.003	0.0057	1.9	0.00025	0.000026	7.5	0.088	0.000019	0.00017	0.00093	0.0013	0.0048
		December		0.4	0.00034	0.0036	4.5	0.073	0.0000085	0.003	0.0056	1.9	0.00024	0.000026	7.6	0.089	0.000019	0.00016	0.00094	0.0013	0.0048
		January	2022	0.41	0.00034	0.0036	4.6	0.071	0.0000085	0.0031	0.0055	1.9	0.00024	0.000026	7.7	0.09	0.000019	0.00016	0.00096	0.0013	0.0048
		February		0.41	0.00034	0.0036	4.6	0.07	0.0000084	0.0031	0.0055										

Site and Downstream Water Quality Model Predictions
Whale Tail Approved Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		2.93	0.3	0.5		0.1					0.002		0.02		0.1
CCME (CEQG-PAL (chronic)) ² (mg/L)							120	0.12					0.01	0.1		0.025				1.5	0.00004				0.002
LOCATION	Time Period	Month	Year	Constituent	TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁸	Ca	Cr	Co	Cu ⁸
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Mammoth Lake	Closure, no mine contact water discharge	August	2022	41	0.31	10	15	0.044	4.9	0.051	0.64	0.013	0.083	0.00028	0.013	0.011	0.000023	0.000045	0.044	0.000011	5.9	0.0023	0.00039	0.00088	
		September		41	0.31	10	14	0.044	4.9	0.05	0.63	0.013	0.082	0.00028	0.012	0.011	0.000023	0.000046	0.044	0.000011	5.9	0.0023	0.00038	0.00088	
		October		69	0.51	17	24	0.074	8.2	0.083	1.0	0.022	0.14	0.00047	0.021	0.019	0.00004	0.000078	0.073	0.000019	9.9	0.0038	0.00064	0.0015	
		November		69	0.51	17	24	0.074	8.2	0.083	1.0	0.022	0.14	0.00047	0.021	0.019	0.00004	0.000078	0.073	0.000019	9.9	0.0038	0.00064	0.0015	
		December		69	0.51	17	24	0.074	8.2	0.083	1.0	0.022	0.14	0.00047	0.021	0.019	0.00004	0.000078	0.073	0.000019	9.9	0.0038	0.00064	0.0015	
		January	2023	69	0.51	17	24	0.074	8.2	0.083	1.0	0.022	0.14	0.00047	0.021	0.019	0.00004	0.000078	0.073	0.000019	9.9	0.0038	0.00064	0.0015	
		February		69	0.51	17	24	0.074	8.2	0.083	1.0	0.022	0.14	0.00047	0.021	0.019	0.00004	0.000078	0.073	0.000019	9.9	0.0038	0.00064	0.0015	
		March		69	0.51	17	24	0.074	8.2	0.083	1.0	0.022	0.14	0.00047	0.021	0.019	0.00004	0.000078	0.073	0.000019	9.9	0.0038	0.00064	0.0015	
		April		69	0.51	17	24	0.074	8.2	0.083	1.0	0.022	0.14	0.00047	0.021	0.019	0.00004	0.000078	0.073	0.000019	9.9	0.0038	0.00064	0.0015	
		May		69	0.51	17	24	0.074	8.2	0.083	1.0	0.022	0.14	0.00047	0.021	0.019	0.00004	0.000078	0.073	0.000019	9.9	0.0038	0.00064	0.0015	
		June		50	0.37	12	17	0.054	6.0	0.06	0.75	0.016	0.097	0.00034	0.015	0.014	0.000029	0.000058	0.053	0.000014	7.2	0.0027	0.00046	0.0011	
		July		36	0.26	9.2	13	0.04	4.4	0.043	0.53	0.011	0.07	0.00025	0.011	0.01	0.000022	0.000045	0.038	0.00001	5.3	0.0019	0.00033	0.00081	
		August		37	0.26	9.3	13	0.041	4.4	0.043	0.53	0.012	0.07	0.00025	0.011	0.01	0.000022	0.000046	0.038	0.00001	5.4	0.0019	0.00033	0.00081	
		September		36	0.25	9.2	13	0.041	4.4	0.042	0.52	0.011	0.069	0.00025	0.01	0.01	0.000023	0.000046	0.038	0.00001	5.3	0.0019	0.00033	0.00081	
		October		61	0.42	16	21	0.068	7.4	0.07	0.87	0.019	0.11	0.00042	0.017	0.017	0.000038	0.000078	0.063	0.000017	9.0	0.0032	0.00055	0.0014	
		November		61	0.42	16	21	0.068	7.4	0.07	0.87	0.019	0.11	0.00042	0.017	0.017	0.000038	0.000078	0.063	0.000017	9.0	0.0032	0.00055	0.0014	
		December		61	0.42	16	21	0.068	7.4	0.07	0.87	0.019	0.11	0.00042	0.017	0.017	0.000038	0.000078	0.063	0.000017	9.0	0.0032	0.00055	0.0014	
		January	2024	61	0.42	16	21	0.068	7.4	0.07	0.87	0.019	0.11	0.00042	0.017	0.017	0.000038	0.000078	0.063	0.000017	9.0	0.0032	0.00055	0.0014	
		February		61	0.42	16	21	0.068	7.4	0.07	0.87	0.019	0.11	0.00042	0.017	0.017	0.000038	0.000078	0.063	0.000017	9.0	0.0032	0.00055	0.0014	
		March		61	0.42	16	21	0.068	7.4	0.07	0.87	0.019	0.11	0.00042	0.017	0.017	0.000038	0.000078	0.063	0.000017	9.0	0.0032	0.00055	0.0014	
		April		61	0.42	16	21	0.068	7.4	0.07	0.87	0.019	0.11	0.00042	0.017	0.017	0.000038	0.000078	0.063	0.000017	9.0	0.0032	0.00055	0.0014	
		May		61	0.42	16	21	0.068	7.4	0.07	0.87	0.019	0.11	0.00042	0.017	0.017	0.000038	0.000078	0.063	0.000017	9.0	0.0032	0.00055	0.0014	
		June		44	0.3	11	15	0.05	5.4	0.051	0.62	0.014	0.082	0.0003	0.012	0.013	0.000028	0.000058	0.046	0.000012	6.6	0.0023	0.0004	0.001	
		July		32	0.21	8.4	11	0.037	4.0	0.036	0.44	0.0099	0.059	0.00022	0.0088	0.0095	0.000021	0.000045	0.033	0.0000092	4.9	0.0016	0.00029	0.00075	
		August		33	0.21	8.5	11	0.038	4.0	0.036	0.44	0.0099	0.059	0.00022	0.0088	0.0095	0.000022	0.000046	0.033	0.0000092	4.9	0.0016	0.00029	0.00075	
		September		32	0.21	8.5	11	0.038	4.0	0.036	0.43	0.0098	0.058	0.00022	0.0086	0.0095	0.000022	0.000046	0.033	0.0000092	4.9	0.0016	0.00029	0.00075	
		October		54	0.35	14	19	0.064	6.8	0.06	0.72	0.016	0.097	0.00037	0.014	0.016	0.000037	0.000078	0.055	0.000015	8.3	0.0027	0.00048	0.0013	
		November		54	0.35	14	19	0.064	6.8	0.06	0.72	0.016	0.097	0.00037	0.014	0.016	0.000037	0.000078	0.055	0.000015	8.3	0.0027	0.00048	0.0013	
		December		54	0.35	14	19	0.064	6.8	0.06	0.72	0.016	0.097	0.00037	0.014	0.016	0.000037	0.000078	0.055	0.000015	8.3	0.0027	0.00048	0.0013	
		January	2025	54	0.35	14	19	0.064	6.8	0.06	0.72	0.016	0.097	0.00037	0.014	0.016	0.000037	0.000078	0.055	0.000015	8.3	0.0027	0.00048	0.0013	
		February		54	0.35	14	19	0.064	6.8	0.06	0.72	0.016	0.097	0.00037	0.014	0.016	0.000037	0.000078	0.055	0.000015	8.3	0.0027	0.00048	0.0013	
		March		54	0.35	14	19	0.064	6.8	0.06	0.72	0.016	0.097	0.00037	0.014	0.016	0.000037	0.000078	0.055	0.000015	8.3	0.0027	0.00048	0.0013	
		April		54	0.35	14	19	0.064	6.8	0.06	0.72	0.016	0.097	0.00037	0.014	0.016	0.000037	0.000078	0.055	0.000015	8.3	0.0027	0.00048	0.0013	
		May		54	0.35	14	19	0.064	6.8	0.06	0.72	0.016	0.097	0.00037	0.014	0.016	0.000037	0.000078	0.055	0.000015	8.3	0.0027	0.00048	0.0013	
		June		39	0.25	10	13	0.047	4.9	0.043	0.51	0.012	0.069	0.00027	0.01	0.012	0.000027	0.000058	0.04	0.000011	6.1	0.0019	0.00035	0.00093	
		July		29	0.18	7.8	9.8	0.035	3.7	0.031	0.36	0.0085	0.05	0.0002	0.0073	0.0087	0.000021	0.000045	0.029	0.0000084	4.5	0.0014	0.00026	0.0007	
		August		29	0.18	7.8	9.9	0.035	3.7	0.031	0.36	0.0086	0.05	0.0002	0.0073	0.0088	0.000021	0.000046	0.029	0.0000084	4.6	0.0014	0.00026	0.0007	
		September		29	0.17	7.8	9.8	0.035	3.7	0.031	0.36	0.0085	0.049	0.0002	0.0072	0.0088	0.000021	0.000046	0.029	0.0000084	4.6	0.0013	0.00025	0.0007	
		October		49	0.29	13	16	0.06	6.2	0.051	0.59	0.014	0.082	0.00033	0.012	0.015	0.000036	0.000078	0.048	0.000014	7.7	0.0022	0.00043	0.0012	
		November		49	0.29	13	16	0.06	6.2	0.051	0.59	0.014	0.082	0.00033	0.012	0.015	0.000036	0.000078	0.048	0.000014	7.7	0.0022	0.00043	0.0012	
		December		49	0.29	13	16	0.06	6.2	0.051	0.59	0.014	0.082	0.00033	0.012	0.015	0.000036	0.000078	0.048	0.000014	7.7	0.0022	0.00043	0.0012	
		January	2026	49	0.29	13	16	0.06	6.2	0.051	0.59	0.014	0.082	0.00033	0.012	0.015	0.000036	0.000078	0.048	0.000014	7.7	0.0022	0.00043	0.0012	
		February		49	0.29	13	16	0.06	6.2	0.051	0.59	0.014	0.082	0.00033	0.012	0.015	0.000036	0.000078	0.048	0.000014	7.7	0.0022	0.00043	0.0012	
		March		49	0.29	13	16	0.06	6.2	0.0															

Site and Downstream Water Quality Model Predictions
Whale Tail Approved Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05					0.004		0.25								0.1	
CCME (CEQG-PAL (chronic)) ² (mg/L)				0.3	0.001					0.000026	0.073	0.025		0.001	0.00025		0.0008		0.015	0.12	0.007
Constituent				Fe	Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁸	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Mammoth Lake	Closure, no mine contact water discharge	August	2022	0.21	0.00018	0.0018	2.2	0.037	0.000005	0.0014	0.0032	1.0	0.00013	0.000015	3.7	0.044	0.000011	0.000096	0.00044	0.00071	0.0027
		September		0.21	0.00018	0.0018	2.2	0.036	0.000005	0.0014	0.0031	0.99	0.00013	0.000015	3.6	0.043	0.000011	0.000097	0.00044	0.00071	0.0027
		October		0.34	0.0003	0.0031	3.7	0.06	0.0000085	0.0023	0.0052	1.7	0.00021	0.000025	6.0	0.073	0.000019	0.00016	0.00073	0.0012	0.0046
		November		0.34	0.0003	0.0031	3.7	0.06	0.0000085	0.0023	0.0052	1.7	0.00021	0.000025	6.0	0.073	0.000019	0.00016	0.00073	0.0012	0.0046
		December		0.34	0.0003	0.0031	3.7	0.06	0.0000085	0.0023	0.0052	1.7	0.00021	0.000025	6.0	0.073	0.000019	0.00016	0.00073	0.0012	0.0046
		January	2023	0.34	0.0003	0.0031	3.7	0.06	0.0000085	0.0023	0.0052	1.7	0.00021	0.000025	6.0	0.073	0.000019	0.00016	0.00073	0.0012	0.0046
		February		0.34	0.0003	0.0031	3.7	0.06	0.0000085	0.0023	0.0052	1.7	0.00021	0.000025	6.0	0.073	0.000019	0.00016	0.00073	0.0012	0.0046
		March		0.34	0.0003	0.0031	3.7	0.06	0.0000085	0.0023	0.0052	1.7	0.00021	0.000025	6.0	0.073	0.000019	0.00016	0.00073	0.0012	0.0046
		April		0.34	0.0003	0.0031	3.7	0.06	0.0000085	0.0023	0.0052	1.7	0.00021	0.000025	6.0	0.073	0.000019	0.00016	0.00073	0.0012	0.0046
		May		0.34	0.0003	0.0031	3.7	0.06	0.0000085	0.0023	0.0052	1.7	0.00021	0.000025	6.0	0.073	0.000019	0.00016	0.00073	0.0012	0.0046
		June		0.24	0.00022	0.0022	2.7	0.043	0.0000063	0.0017	0.0038	1.2	0.00015	0.000018	4.3	0.053	0.000014	0.00012	0.00052	0.00088	0.0035
		July		0.18	0.00016	0.0017	2.0	0.031	0.0000048	0.0012	0.0027	0.91	0.00011	0.000014	3.1	0.039	0.000011	0.000094	0.00037	0.00066	0.0027
		August		0.18	0.00016	0.0017	2.0	0.031	0.0000049	0.0012	0.0027	0.92	0.00011	0.000014	3.1	0.039	0.000011	0.000095	0.00037	0.00067	0.0027
		September		0.17	0.00016	0.0017	2.0	0.03	0.0000049	0.0012	0.0027	0.92	0.00011	0.000014	3.1	0.039	0.000011	0.000096	0.00036	0.00066	0.0027
		October		0.29	0.00027	0.0028	3.3	0.051	0.0000084	0.0019	0.0045	1.5	0.00019	0.000023	5.1	0.066	0.000018	0.00016	0.00061	0.0011	0.0046
		November		0.29	0.00027	0.0028	3.3	0.051	0.0000084	0.0019	0.0045	1.5	0.00019	0.000023	5.1	0.066	0.000018	0.00016	0.00061	0.0011	0.0046
		December		0.29	0.00027	0.0028	3.3	0.051	0.0000084	0.0019	0.0045	1.5	0.00019	0.000023	5.1	0.066	0.000018	0.00016	0.00061	0.0011	0.0046
		January	2024	0.29	0.00027	0.0028	3.3	0.051	0.0000084	0.0019	0.0045	1.5	0.00019	0.000023	5.1	0.066	0.000018	0.00016	0.00061	0.0011	0.0046
		February		0.29	0.00027	0.0028	3.3	0.051	0.0000084	0.0019	0.0045	1.5	0.00019	0.000023	5.1	0.066	0.000018	0.00016	0.00061	0.0011	0.0046
		March		0.29	0.00027	0.0028	3.3	0.051	0.0000084	0.0019	0.0045	1.5	0.00019	0.000023	5.1	0.066	0.000018	0.00016	0.00061	0.0011	0.0046
		April		0.29	0.00027	0.0028	3.3	0.051	0.0000084	0.0019	0.0045	1.5	0.00019	0.000023	5.1	0.066	0.000018	0.00016	0.00061	0.0011	0.0046
		May		0.29	0.00027	0.0028	3.3	0.051	0.0000084	0.0019	0.0045	1.5	0.00019	0.000023	5.1	0.066	0.000018	0.00016	0.00061	0.0011	0.0046
		June		0.21	0.00019	0.0021	2.4	0.036	0.0000062	0.0014	0.0033	1.1	0.00014	0.000017	3.7	0.048	0.000014	0.00012	0.00043	0.00083	0.0035
		July		0.15	0.00014	0.0015	1.8	0.026	0.0000048	0.00098	0.0024	0.85	0.0001	0.000013	2.7	0.035	0.00001	0.000093	0.00031	0.00062	0.0027
		August		0.15	0.00014	0.0016	1.8	0.026	0.0000048	0.00098	0.0024	0.86	0.0001	0.000013	2.7	0.036	0.00001	0.000095	0.00031	0.00063	0.0027
		September		0.14	0.00014	0.0016	1.8	0.025	0.0000049	0.00097	0.0024	0.85	0.0001	0.000013	2.6	0.035	0.00001	0.000095	0.0003	0.00063	0.0027
		October		0.24	0.00024	0.0026	3.0	0.042	0.0000083	0.0016	0.004	1.4	0.00017	0.000022	4.4	0.06	0.000018	0.00016	0.00051	0.0011	0.0046
		November		0.24	0.00024	0.0026	3.0	0.042	0.0000083	0.0016	0.004	1.4	0.00017	0.000022	4.4	0.06	0.000018	0.00016	0.00051	0.0011	0.0046
		December		0.24	0.00024	0.0026	3.0	0.042	0.0000083	0.0016	0.004	1.4	0.00017	0.000022	4.4	0.06	0.000018	0.00016	0.00051	0.0011	0.0046
		January	2025	0.24	0.00024	0.0026	3.0	0.042	0.0000083	0.0016	0.004	1.4	0.00017	0.000022	4.4	0.06	0.000018	0.00016	0.00051	0.0011	0.0046
		February		0.24	0.00024	0.0026	3.0	0.042	0.0000083	0.0016	0.004	1.4	0.00017	0.000022	4.4	0.06	0.000018	0.00016	0.00051	0.0011	0.0046
		March		0.24	0.00024	0.0026	3.0	0.042	0.0000083	0.0016	0.004	1.4	0.00017	0.000022	4.4	0.06	0.000018	0.00016	0.00051	0.0011	0.0046
		April		0.24	0.00024	0.0026	3.0	0.042	0.0000083	0.0016	0.004	1.4	0.00017	0.000022	4.4	0.06	0.000018	0.00016	0.00051	0.0011	0.0046
		May		0.24	0.00024	0.0026	3.0	0.042	0.0000083	0.0016	0.004	1.4	0.00017	0.000022	4.4	0.06	0.000018	0.00016	0.00051	0.0011	0.0046
		June		0.17	0.00018	0.0019	2.2	0.03	0.0000062	0.0011	0.0029	1.1	0.00012	0.000016	3.2	0.044	0.000013	0.00012	0.00036	0.00079	0.0035
		July		0.12	0.00013	0.0014	1.6	0.022	0.0000047	0.00082	0.0021	0.79	0.000092	0.000012	2.3	0.032	0.00001	0.000093	0.00026	0.00059	0.0027
		August		0.12	0.00013	0.0015	1.6	0.022	0.0000048	0.00082	0.0021	0.8	0.000092	0.000012	2.3	0.033	0.00001	0.000094	0.00026	0.0006	0.0027
		September		0.12	0.00013	0.0015	1.6	0.021	0.0000048	0.00081	0.0021	0.8	0.000092	0.000012	2.3	0.032	0.00001	0.000095	0.00026	0.0006	0.0027
		October		0.2	0.00022	0.0025	2.7	0.036	0.0000082	0.0013	0.0035	1.4	0.00015	0.000021	3.8	0.055	0.000017	0.00016	0.00043	0.001	0.0047
		November		0.2	0.00022	0.0025	2.7	0.036	0.0000082	0.0013	0.0035	1.4	0.00015	0.000021	3.8	0.055	0.000017	0.00016	0.00043	0.001	0.0047
		December		0.2	0.00022	0.0025	2.7	0.036	0.0000082	0.0013	0.0035	1.4	0.00015	0.000021	3.8	0.055	0.000017	0.00016	0.00043	0.001	0.0047
		January	2026	0.2	0.00022	0.0025	2.7	0.036	0.0000082	0.0013	0.0035	1.4	0.00015	0.000021	3.8	0.055	0.000017	0.00016	0.00043	0.001	0.0047
		February		0.2	0.00022	0.0025	2.7	0.036	0.0000082	0.0013	0.0035	1.4	0.00015	0.000021	3.8	0.055	0.000017	0.00016	0.00043	0.001	0.0047
		March		0.2	0.00022	0.0025	2.7	0.036	0.0000082	0.0013	0.0035	1.4	0.00015	0.000021	3.8	0.055	0.000017	0.00016	0.00043	0.001	0.0047
		April		0.2	0.00022	0.0025	2.7	0.036	0.0000082	0.0013	0.0035	1.4	0.00015	0.000021	3.8	0.055	0.000017	0.00016	0.00043	0.001	0.0047
		May		0.2	0.00022	0.0025	2.7	0.036	0.0000082	0.0013	0.0035	1.4	0.00015	0.000021	3.8	0.055	0.000017	0.00016	0.00043	0.001	0.0047
		June		0.15	0.00016	0.0018	2.0	0.025	0.0000061	0.00096	0.0025	1.0	0.00011	0.000015	2.7	0.04	0.000013	0.00012	0.0003	0.00075	0.0035
		July		0.11	0.00012	0.0014	1.5	0.018	0.0000047	0.00069	0.0019	0.75	0.000083	0.000012	2.0	0.03	0.0000099	0.000092	0.00022	0.00057	0.0027
		August		0.11	0.00012	0.0014	1.5	0.018	0.0000048	0.00069	0.0019	0.76	0.000084	0.000012	2.0	0.03	0.00001				

Site and Downstream Water Quality Model Predictions
Whale Tail Approved Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ⁶ (mg/L)				1400						16		2.93	0.3	0.5		0.1					0.002		0.02		0.1
CCME (CEQG-PAL [chronic]) ⁷ (mg/L)							120	0.12					0.01	0.1		0.025				1.5	0.00004				0.002
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁸	Ca	Cr	Co	Cu ⁸	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Mammoth Lake	Closure, controlled discharge from pit lake	July	2027	24	0.11	6.8	8.0	0.032	3.1	0.023	0.2	0.0067	0.033	0.00017	0.0053	0.0076	0.00002	0.000045	0.022	0.000073	3.9	0.00092	0.0002	0.00063	
		August		24	0.11	7.0	8.1	0.034	3.2	0.023	0.18	0.0069	0.032	0.00017	0.0055	0.0077	0.00002	0.000046	0.023	0.000075	4.0	0.00091	0.00021	0.00064	
		September		24	0.11	7.0	8.1	0.034	3.2	0.023	0.16	0.0069	0.031	0.00017	0.0056	0.0077	0.000021	0.000047	0.022	0.000076	4.0	0.00087	0.0002	0.00064	
		October		41	0.17	12	14	0.059	5.3	0.038	0.24	0.012	0.05	0.00029	0.0094	0.013	0.000035	0.000079	0.037	0.000013	6.7	0.0014	0.00034	0.0011	
		November		41	0.17	12	14	0.059	5.3	0.038	0.24	0.012	0.05	0.00029	0.0094	0.013	0.000035	0.000079	0.037	0.000013	6.7	0.0014	0.00034	0.0011	
		December		41	0.17	12	14	0.059	5.3	0.038	0.24	0.012	0.05	0.00029	0.0094	0.013	0.000035	0.000079	0.037	0.000013	6.7	0.0014	0.00034	0.0011	
		January	2028	41	0.17	12	14	0.059	5.3	0.038	0.24	0.012	0.05	0.00029	0.0094	0.013	0.000035	0.000079	0.037	0.000013	6.7	0.0014	0.00034	0.0011	
		February		41	0.17	12	14	0.059	5.3	0.038	0.24	0.012	0.05	0.00029	0.0094	0.013	0.000035	0.000079	0.037	0.000013	6.7	0.0014	0.00034	0.0011	
		March		41	0.17	12	14	0.059	5.3	0.038	0.24	0.012	0.05	0.00029	0.0094	0.013	0.000035	0.000079	0.037	0.000013	6.7	0.0014	0.00034	0.0011	
		April		41	0.17	12	14	0.059	5.3	0.038	0.24	0.012	0.05	0.00029	0.0094	0.013	0.000035	0.000079	0.037	0.000013	6.7	0.0014	0.00034	0.0011	
		May		41	0.17	12	14	0.059	5.3	0.038	0.24	0.012	0.05	0.00029	0.0094	0.013	0.000035	0.000079	0.037	0.000013	6.7	0.0014	0.00034	0.0011	
		June		28	0.11	8.1	9.3	0.041	3.6	0.025	0.13	0.008	0.033	0.0002	0.0064	0.0089	0.000024	0.000056	0.025	0.000089	4.6	0.00095	0.00023	0.00075	
		July	2029	20	0.07	6.1	6.9	0.031	2.7	0.018	0.072	0.0059	0.023	0.00015	0.0047	0.0067	0.000019	0.000043	0.018	0.000067	3.4	0.00068	0.00017	0.00057	
		August		21	0.073	6.3	7.0	0.033	2.7	0.019	0.066	0.0061	0.023	0.00015	0.0048	0.0068	0.000019	0.000044	0.019	0.000069	3.5	0.0007	0.00018	0.00059	
		September		21	0.073	6.4	7.0	0.033	2.8	0.019	0.06	0.0061	0.023	0.00015	0.0049	0.0069	0.00002	0.000045	0.019	0.00007	3.5	0.00071	0.00018	0.0006	
		October		35	0.12	11	12	0.057	4.7	0.031	0.095	0.01	0.039	0.00026	0.0082	0.012	0.000034	0.000078	0.032	0.000012	5.9	0.0012	0.00031	0.001	
		November		35	0.12	11	12	0.057	4.7	0.031	0.095	0.01	0.039	0.00026	0.0082	0.012	0.000034	0.000078	0.032	0.000012	5.9	0.0012	0.00031	0.001	
		December		35	0.12	11	12	0.057	4.7	0.031	0.095	0.01	0.039	0.00026	0.0082	0.012	0.000034	0.000078	0.032	0.000012	5.9	0.0012	0.00031	0.001	
		January	2030	35	0.12	11	12	0.057	4.7	0.031	0.095	0.01	0.039	0.00026	0.0082	0.012	0.000034	0.000078	0.032	0.000012	5.9	0.0012	0.00031	0.001	
		February		35	0.12	11	12	0.057	4.7	0.031	0.095	0.01	0.039	0.00026	0.0082	0.012	0.000034	0.000078	0.032	0.000012	5.9	0.0012	0.00031	0.001	
		March		35	0.12	11	12	0.057	4.7	0.031	0.095	0.01	0.039	0.00026	0.0082	0.012	0.000034	0.000078	0.032	0.000012	5.9	0.0012	0.00031	0.001	
		April		35	0.12	11	12	0.057	4.7	0.031	0.095	0.01	0.039	0.00026	0.0082	0.012	0.000034	0.000078	0.032	0.000012	5.9	0.0012	0.00031	0.001	
		May		35	0.12	11	12	0.057	4.7	0.031	0.095	0.01	0.039	0.00026	0.0082	0.012	0.000034	0.000078	0.032	0.000012	5.9	0.0012	0.00031	0.001	
		June		24	0.076	7.5	8.1	0.04	3.2	0.021	0.057	0.0071	0.027	0.00018	0.0055	0.0081	0.000024	0.000055	0.022	0.000083	4.1	0.00082	0.00021	0.00071	
		July	2031	18	0.053	5.7	6.0	0.031	2.4	0.016	0.035	0.0053	0.02	0.00014	0.0041	0.0061	0.000018	0.000043	0.016	0.000063	3.1	0.00062	0.00016	0.00055	
		August		19	0.058	5.9	6.2	0.032	2.5	0.016	0.034	0.0055	0.021	0.00014	0.0042	0.0063	0.000019	0.000044	0.017	0.000065	3.2	0.00065	0.00017	0.00057	
		September		19	0.059	6.0	6.2	0.032	2.5	0.016	0.033	0.0055	0.021	0.00015	0.0042	0.0064	0.00002	0.000046	0.017	0.000067	3.2	0.00066	0.00017	0.00059	
		October		32	0.098	10	11	0.055	4.3	0.027	0.054	0.0093	0.036	0.00025	0.0071	0.011	0.000034	0.000078	0.029	0.000011	5.5	0.0011	0.00029	0.0010	
		November		32	0.098	10	11	0.055	4.3	0.027	0.054	0.0093	0.036	0.00025	0.0071	0.011	0.000034	0.000078	0.029	0.000011	5.5	0.0011	0.00029	0.0010	
		December		32	0.098	10	11	0.055	4.3	0.027	0.054	0.0093	0.036	0.00025	0.0071	0.011	0.000034	0.000078	0.029	0.000011	5.5	0.0011	0.00029	0.0010	
		January	2032	32	0.098	10	11	0.055	4.3	0.027	0.054	0.0093	0.036	0.00025	0.0071	0.011	0.000034	0.000078	0.029	0.000011	5.5	0.0011	0.00029	0.0010	
		February		32	0.098	10	11	0.055	4.3	0.027	0.054	0.0093	0.036	0.00025	0.0071	0.011	0.000034	0.000078	0.029	0.000011	5.5	0.0011	0.00029	0.0010	
		March		32	0.098	10	11	0.055	4.3	0.027	0.054	0.0093	0.036	0.00025	0.0071	0.011	0.000034	0.000078	0.029	0.000011	5.5	0.0011	0.00029	0.0010	
		April		32	0.098	10	11	0.055	4.3	0.027	0.054	0.0093	0.036	0.00025	0.0071	0.011	0.000034	0.000078	0.029	0.000011	5.5	0.0011	0.00029	0.0010	
		May		32	0.098	10	11	0.055	4.3	0.027	0.054	0.0093	0.036	0.00025	0.0071	0.011	0.000034	0.000078	0.029	0.000011	5.5	0.0011	0.00029	0.0010	
		June		22	0.062	7.2	7.2	0.039	3.0	0.018	0.035	0.0064	0.025	0.00017	0.0048	0.0076	0.000024	0.000055	0.02	0.000079	3.8	0.00078	0.0002	0.0007	
		July	2033	17	0.045	5.5	5.4	0.03	2.2	0.014	0.024	0.0048	0.019	0.00013	0.0036	0.0058	0.000019	0.000043	0.015	0.00006	2.9	0.00061	0.00015	0.00054	
		August		17	0.049	5.7	5.5	0.031	2.3	0.014	0.024	0.0049	0.02	0.00014	0.0037	0.006	0.000019	0.000045	0.015	0.000063	3.0	0.00063	0.00016	0.00056	
		September		18	0.05	5.8	5.6	0.032	2.3	0.014	0.023	0.005	0.021	0.00014	0.0037	0.0061	0.00002	0.000046	0.016	0.000064	3.0	0.00065	0.00016	0.00058	
		October		30	0.084	9.8	9.4	0.054	4.0	0.024	0.039	0.0085	0.035	0.00024	0.0063	0.01	0.000034	0.000079	0.026	0.000011	5.1	0.0011	0.00028	0.00099	
		November		30	0.084	9.8	9.4	0.054	4.0	0.024	0.039	0.0085	0.035	0.00024	0.0063	0.01	0.000034	0.000079	0.026	0.000011	5.1	0.0011	0.00028	0.00099	
		December		30	0.084	9.8	9.4	0.054	4.0	0.024	0.039	0.0085	0.035	0.00024	0.0063	0.01	0.000034	0.000079	0.026	0.000011	5.1	0.0011	0.00028	0.00099	
		January	2034	30	0.084	9.8	9.4	0.054	4.0	0.024	0.039	0.0085	0.035	0.00024	0.0063	0.01	0.000034	0.000079	0.026	0.000011	5.1	0.0011	0.00028	0.00099	
		February		30	0.084	9.8	9.4	0.054	4.0	0.024	0.039	0.0085	0.035	0.00024	0.0063	0.01	0.000034	0.000079	0.026	0.000011</					

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05				0.004		0.25										0.1
CCME (CEQG-PAL (chronic)) ² (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	0.007
Constituent				Fe	Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁸	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Mammoth Lake	Closure, controlled discharge from pit lake	July	2027	0.087	0.00011	0.0013	1.4	0.016	0.0000047	0.00062	0.0016	0.71	0.000077	0.000011	1.8	0.028	0.0000097	0.000093	0.0002	0.00055	0.0024
		August		0.086	0.00011	0.0013	1.4	0.017	0.0000048	0.00064	0.0016	0.72	0.000078	0.000011	1.8	0.028	0.0000099	0.000095	0.00022	0.00056	0.0023
		September		0.084	0.00011	0.0013	1.4	0.017	0.0000049	0.00065	0.0016	0.72	0.000078	0.000011	1.8	0.028	0.000010	0.000096	0.00023	0.00056	0.0022
		October		0.14	0.00018	0.0023	2.4	0.029	0.0000083	0.0011	0.0026	1.2	0.00013	0.000019	3.1	0.047	0.000017	0.00016	0.00039	0.00095	0.0036
		November		0.14	0.00018	0.0023	2.4	0.029	0.0000083	0.0011	0.0026	1.2	0.00013	0.000019	3.1	0.047	0.000017	0.00016	0.00039	0.00095	0.0036
		December		0.14	0.00018	0.0023	2.4	0.029	0.0000083	0.0011	0.0026	1.2	0.00013	0.000019	3.1	0.047	0.000017	0.00016	0.00039	0.00095	0.0036
		January	2028	0.14	0.00018	0.0023	2.4	0.029	0.0000083	0.0011	0.0026	1.2	0.00013	0.000019	3.1	0.047	0.000017	0.00016	0.00039	0.00095	0.0036
		February		0.14	0.00018	0.0023	2.4	0.029	0.0000083	0.0011	0.0026	1.2	0.00013	0.000019	3.1	0.047	0.000017	0.00016	0.00039	0.00095	0.0036
		March		0.14	0.00018	0.0023	2.4	0.029	0.0000083	0.0011	0.0026	1.2	0.00013	0.000019	3.1	0.047	0.000017	0.00016	0.00039	0.00095	0.0036
		April		0.14	0.00018	0.0023	2.4	0.029	0.0000083	0.0011	0.0026	1.2	0.00013	0.000019	3.1	0.047	0.000017	0.00016	0.00039	0.00095	0.0036
		May		0.14	0.00018	0.0023	2.4	0.029	0.0000083	0.0011	0.0026	1.2	0.00013	0.000019	3.1	0.047	0.000017	0.00016	0.00039	0.00095	0.0036
		June		0.093	0.00012	0.0016	1.6	0.02	0.0000058	0.00075	0.0018	0.83	0.000089	0.000013	2.1	0.032	0.000012	0.00011	0.00027	0.00066	0.0024
		July		0.068	0.000089	0.0012	1.2	0.015	0.0000045	0.00055	0.0013	0.62	0.000066	0.0000098	1.6	0.024	0.000009	0.000089	0.0002	0.0005	0.0017
		August		0.07	0.000091	0.0012	1.3	0.015	0.0000046	0.00057	0.0013	0.64	0.000069	0.00001	1.6	0.025	0.0000093	0.000092	0.00021	0.00052	0.0017
		September		0.071	0.000092	0.0013	1.3	0.015	0.0000048	0.00057	0.0013	0.65	0.00007	0.00001	1.6	0.025	0.0000096	0.000094	0.00021	0.00053	0.0017
		October		0.12	0.00016	0.0021	2.2	0.025	0.0000081	0.00097	0.0022	1.1	0.00012	0.000017	2.7	0.042	0.000016	0.00016	0.00036	0.0009	0.0029
		November		0.12	0.00016	0.0021	2.2	0.025	0.0000081	0.00097	0.0022	1.1	0.00012	0.000017	2.7	0.042	0.000016	0.00016	0.00036	0.0009	0.0029
		December		0.12	0.00016	0.0021	2.2	0.025	0.0000081	0.00097	0.0022	1.1	0.00012	0.000017	2.7	0.042	0.000016	0.00016	0.00036	0.0009	0.0029
		January	2029	0.12	0.00016	0.0021	2.2	0.025	0.0000081	0.00097	0.0022	1.1	0.00012	0.000017	2.7	0.042	0.000016	0.00016	0.00036	0.0009	0.0029
		February		0.12	0.00016	0.0021	2.2	0.025	0.0000081	0.00097	0.0022	1.1	0.00012	0.000017	2.7	0.042	0.000016	0.00016	0.00036	0.0009	0.0029
		March		0.12	0.00016	0.0021	2.2	0.025	0.0000081	0.00097	0.0022	1.1	0.00012	0.000017	2.7	0.042	0.000016	0.00016	0.00036	0.0009	0.0029
		April		0.12	0.00016	0.0021	2.2	0.025	0.0000081	0.00097	0.0022	1.1	0.00012	0.000017	2.7	0.042	0.000016	0.00016	0.00036	0.0009	0.0029
		May		0.12	0.00016	0.0021	2.2	0.025	0.0000081	0.00097	0.0022	1.1	0.00012	0.000017	2.7	0.042	0.000016	0.00016	0.00036	0.0009	0.0029
		June		0.083	0.00011	0.0015	1.5	0.017	0.0000057	0.00065	0.0015	0.76	0.000082	0.000012	1.8	0.029	0.000012	0.00011	0.00024	0.00064	0.002
		July		0.063	0.000082	0.0011	1.1	0.013	0.0000045	0.00047	0.0012	0.58	0.000062	0.0000095	1.4	0.022	0.000009	0.000089	0.00018	0.00049	0.0015
		August		0.066	0.000085	0.0012	1.2	0.013	0.0000046	0.00049	0.0012	0.6	0.000064	0.0000099	1.4	0.022	0.0000093	0.000092	0.00019	0.00051	0.0015
		September		0.067	0.000086	0.0012	1.2	0.013	0.0000048	0.00049	0.0012	0.61	0.000065	0.00001	1.4	0.023	0.0000096	0.000095	0.00019	0.00053	0.0016
		October		0.11	0.00015	0.0021	2.0	0.022	0.0000082	0.00082	0.0021	1.0	0.00011	0.000017	2.4	0.039	0.000016	0.00016	0.00032	0.0009	0.0026
		November		0.11	0.00015	0.0021	2.0	0.022	0.0000082	0.00082	0.0021	1.0	0.00011	0.000017	2.4	0.039	0.000016	0.00016	0.00032	0.0009	0.0026
		December		0.11	0.00015	0.0021	2.0	0.022	0.0000082	0.00082	0.0021	1.0	0.00011	0.000017	2.4	0.039	0.000016	0.00016	0.00032	0.0009	0.0026
		January	2030	0.11	0.00015	0.0021	2.0	0.022	0.0000082	0.00082	0.0021	1.0	0.00011	0.000017	2.4	0.039	0.000016	0.00016	0.00032	0.0009	0.0026
		February		0.11	0.00015	0.0021	2.0	0.022	0.0000082	0.00082	0.0021	1.0	0.00011	0.000017	2.4	0.039	0.000016	0.00016	0.00032	0.0009	0.0026
		March		0.11	0.00015	0.0021	2.0	0.022	0.0000082	0.00082	0.0021	1.0	0.00011	0.000017	2.4	0.039	0.000016	0.00016	0.00032	0.0009	0.0026
		April		0.11	0.00015	0.0021	2.0	0.022	0.0000082	0.00082	0.0021	1.0	0.00011	0.000017	2.4	0.039	0.000016	0.00016	0.00032	0.0009	0.0026
		May		0.11	0.00015	0.0021	2.0	0.022	0.0000082	0.00082	0.0021	1.0	0.00011	0.000017	2.4	0.039	0.000016	0.00016	0.00032	0.0009	0.0026
		June		0.08	0.0001	0.0014	1.4	0.015	0.0000058	0.00055	0.0014	0.72	0.000077	0.000012	1.6	0.027	0.000012	0.00011	0.00021	0.00064	0.0019
		July		0.062	0.000078	0.0011	1.1	0.011	0.0000045	0.0004	0.0011	0.55	0.000059	0.0000095	1.2	0.02	0.0000091	0.00009	0.00016	0.0005	0.0014
		August		0.065	0.000081	0.0011	1.1	0.011	0.0000047	0.00041	0.0011	0.57	0.000061	0.0000099	1.3	0.021	0.0000094	0.000093	0.00016	0.00052	0.0015
		September		0.066	0.000083	0.0012	1.1	0.011	0.0000048	0.00041	0.0012	0.58	0.000063	0.00001	1.3	0.021	0.0000097	0.000096	0.00017	0.00053	0.0015
		October		0.11	0.00014	0.002	1.9	0.019	0.0000082	0.0007	0.002	0.99	0.00011	0.000017	2.1	0.036	0.000017	0.00016	0.00028	0.00091	0.0026
		November		0.11	0.00014	0.002	1.9	0.019	0.0000082	0.0007	0.002	0.99	0.00011	0.000017	2.1	0.036	0.000017	0.00016	0.00028	0.00091	0.0026
		December		0.11	0.00014	0.002	1.9	0.019	0.0000082	0.0007	0.002	0.99	0.00011	0.000017	2.1	0.036	0.000017	0.00016	0.00028	0.00091	0.0026
		January	2031	0.11	0.00014	0.002	1.9	0.019	0.0000082	0.0007	0.002	0.99	0.00011	0.000017	2.1	0.036	0.000017	0.00016	0.00028	0.00091	0.0026
		February		0.11	0.00014	0.002	1.9	0.019	0.0000082	0.0007	0.002	0.99	0.00011	0.000017	2.1	0.036	0.000017	0.00016	0.00028	0.00091	0.0026
		March		0.11	0.00014	0.002	1.9	0.019	0.0000082	0.0007	0.002	0.99	0.00011	0.000017	2.1	0.036	0.000017	0.00016	0.00028	0.00091	0.0026
		April		0.11	0.00014	0.002	1.9	0.019	0.0000082	0.0007	0.002	0.99	0.00011	0.000017	2.1	0.036	0.000017	0.00016	0.00028	0.00091	0.0026
		May		0.11	0.00014	0.002	1.9	0.019	0.0000082	0.0007	0.002	0.99	0.00011	0.000017	2.1	0.036	0.000017	0.00016	0.00028	0.00091	0.0026
		June		0.079	0.000099	0.0014	1.3	0.013	0.0000058	0.00047	0.0014	0.69	0.000074	0.000012	1.5	0.025	0.000012	0.00012	0.00019	0.00064	0.0018
		July		0.062	0.000076	0.0011	1.0	0.0093	0.0000045	0.00034	0.0011	0.53	0.000057	0.0000096	1.1	0.019	0.0000092	0.00009	0.00014	0.0005	0.0014
		August		0.064	0.000079	0.0011	1.0	0.0095	0.0000047	0.00035	0.0011	0.55	0.000059	0.000010							

Site and Downstream Water Quality Model Predictions
Whale Tail Approved Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	
CCME (CEQG-PAL (chronic)) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004			0.002		
LOCATION	Time Period	Month	Year	Constituent	TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁸	Ca	Cr	Co	Cu ⁸
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Mammoth Lake	Closure, controlled discharge from pit lake	January	2032		28	0.074	9.5	8.6	0.053	3.8	0.021	0.032	0.0078	0.035	0.00023	0.0055	0.0099	0.000034	0.00008	0.025	0.00001	4.9	0.0011	0.00027	0.00098
		February			28	0.074	9.5	8.6	0.053	3.8	0.021	0.032	0.0078	0.035	0.00023	0.0055	0.0099	0.000034	0.00008	0.025	0.00001	4.9	0.0011	0.00027	0.00098
		March			28	0.074	9.5	8.6	0.053	3.8	0.021	0.032	0.0078	0.035	0.00023	0.0055	0.0099	0.000034	0.00008	0.025	0.00001	4.9	0.0011	0.00027	0.00098
		April			28	0.074	9.5	8.6	0.053	3.8	0.021	0.032	0.0078	0.035	0.00023	0.0055	0.0099	0.000034	0.00008	0.025	0.00001	4.9	0.0011	0.00027	0.00098
		May			28	0.074	9.5	8.6	0.053	3.8	0.021	0.032	0.0078	0.035	0.00023	0.0055	0.0099	0.000034	0.00008	0.025	0.00001	4.9	0.0011	0.00027	0.00098
		June			19	0.047	6.7	5.9	0.037	2.6	0.015	0.022	0.0054	0.025	0.00016	0.0038	0.007	0.000024	0.000057	0.017	0.0000073	3.4	0.00077	0.00019	0.00069
		July			15	0.034	5.1	4.5	0.029	2.0	0.011	0.016	0.0041	0.019	0.00012	0.0028	0.0053	0.000019	0.000044	0.013	0.0000056	2.6	0.0006	0.00014	0.00054
		August			15	0.038	5.3	4.6	0.03	2.1	0.011	0.016	0.0042	0.02	0.00013	0.0029	0.0055	0.000019	0.000046	0.013	0.0000058	2.7	0.00063	0.00015	0.00056
		September			15	0.04	5.4	4.6	0.03	2.1	0.011	0.016	0.0042	0.02	0.00013	0.0029	0.0056	0.00002	0.000047	0.014	0.0000059	2.8	0.00064	0.00015	0.00057
		October			26	0.066	9.3	7.8	0.052	3.6	0.019	0.027	0.0072	0.035	0.00022	0.005	0.0096	0.000034	0.000081	0.023	0.00001	4.7	0.0011	0.00026	0.00098
		November			26	0.066	9.3	7.8	0.052	3.6	0.019	0.027	0.0072	0.035	0.00022	0.005	0.0096	0.000034	0.000081	0.023	0.00001	4.7	0.0011	0.00026	0.00098
		December			26	0.066	9.3	7.8	0.052	3.6	0.019	0.027	0.0072	0.035	0.00022	0.005	0.0096	0.000034	0.000081	0.023	0.00001	4.7	0.0011	0.00026	0.00098
		January	2033		26	0.066	9.3	7.8	0.052	3.6	0.019	0.027	0.0072	0.035	0.00022	0.005	0.0096	0.000034	0.000081	0.023	0.00001	4.7	0.0011	0.00026	0.00098
		February			26	0.066	9.3	7.8	0.052	3.6	0.019	0.027	0.0072	0.035	0.00022	0.005	0.0096	0.000034	0.000081	0.023	0.00001	4.7	0.0011	0.00026	0.00098
		March			26	0.066	9.3	7.8	0.052	3.6	0.019	0.027	0.0072	0.035	0.00022	0.005	0.0096	0.000034	0.000081	0.023	0.00001	4.7	0.0011	0.00026	0.00098
		April			26	0.066	9.3	7.8	0.052	3.6	0.019	0.027	0.0072	0.035	0.00022	0.005	0.0096	0.000034	0.000081	0.023	0.00001	4.7	0.0011	0.00026	0.00098
		May			26	0.066	9.3	7.8	0.052	3.6	0.019	0.027	0.0072	0.035	0.00022	0.005	0.0096	0.000034	0.000081	0.023	0.00001	4.7	0.0011	0.00026	0.00098
		June			18	0.042	6.5	5.4	0.036	2.5	0.013	0.019	0.005	0.025	0.00016	0.0034	0.0067	0.000024	0.000057	0.016	0.0000071	3.3	0.00077	0.00018	0.00069
		July			14	0.03	5.0	4.1	0.028	1.9	0.010	0.014	0.0038	0.019	0.00012	0.0025	0.0052	0.000019	0.000045	0.012	0.0000055	2.5	0.0006	0.00014	0.00054
		August			14	0.034	5.2	4.2	0.029	2.0	0.01	0.014	0.0039	0.02	0.00013	0.0026	0.0053	0.000019	0.000047	0.013	0.0000057	2.6	0.00062	0.00014	0.00056
		September			15	0.036	5.3	4.3	0.03	2.0	0.01	0.014	0.004	0.02	0.00013	0.0026	0.0055	0.00002	0.000048	0.013	0.0000058	2.7	0.00064	0.00015	0.00057
		October			25	0.06	9.0	7.2	0.051	3.4	0.018	0.024	0.0067	0.035	0.00022	0.0045	0.0093	0.000034	0.000082	0.022	0.0000099	4.5	0.0011	0.00025	0.00098
		November			25	0.06	9.0	7.2	0.051	3.4	0.018	0.024	0.0067	0.035	0.00022	0.0045	0.0093	0.000034	0.000082	0.022	0.0000099	4.5	0.0011	0.00025	0.00098
		December			25	0.06	9.0	7.2	0.051	3.4	0.018	0.024	0.0067	0.035	0.00022	0.0045	0.0093	0.000034	0.000082	0.022	0.0000099	4.5	0.0011	0.00025	0.00098
		January	2034		25	0.06	9.0	7.2	0.051	3.4	0.018	0.024	0.0067	0.035	0.00022	0.0045	0.0093	0.000034	0.000082	0.022	0.0000099	4.5	0.0011	0.00025	0.00098
		February			25	0.06	9.0	7.2	0.051	3.4	0.018	0.024	0.0067	0.035	0.00022	0.0045	0.0093	0.000034	0.000082	0.022	0.0000099	4.5	0.0011	0.00025	0.00098
		March			25	0.06	9.0	7.2	0.051	3.4	0.018	0.024	0.0067	0.035	0.00022	0.0045	0.0093	0.000034	0.000082	0.022	0.0000099	4.5	0.0011	0.00025	0.00098
		April			25	0.06	9.0	7.2	0.051	3.4	0.018	0.024	0.0067	0.035	0.00022	0.0045	0.0093	0.000034	0.000082	0.022	0.0000099	4.5	0.0011	0.00025	0.00098
		May			25	0.06	9.0	7.2	0.051	3.4	0.018	0.024	0.0067	0.035	0.00022	0.0045	0.0093	0.000034	0.000082	0.022	0.0000099	4.5	0.0011	0.00025	0.00098
		June			17	0.037	6.3	5.0	0.036	2.4	0.012	0.016	0.0047	0.025	0.00015	0.0031	0.0065	0.000024	0.000058	0.015	0.0000069	3.2	0.00077	0.00018	0.00069
		July			13	0.027	4.9	3.8	0.028	1.8	0.0092	0.012	0.0036	0.019	0.00012	0.0023	0.005	0.000019	0.000045	0.012	0.0000053	2.4	0.0006	0.00014	0.00053
		August			14	0.031	5.1	3.9	0.029	1.9	0.0094	0.013	0.0037	0.02	0.00012	0.0024	0.0052	0.000019	0.000047	0.012	0.0000055	2.5	0.00062	0.00014	0.00055
		September			14	0.033	5.2	4.0	0.03	1.9	0.0095	0.013	0.0037	0.02	0.00013	0.0024	0.0053	0.00002	0.000048	0.012	0.0000057	2.6	0.00064	0.00014	0.00057
		October			24	0.054	8.9	6.8	0.051	3.3	0.016	0.021	0.0063	0.035	0.00021	0.0041	0.0091	0.000034	0.000082	0.021	0.0000097	4.4	0.0011	0.00025	0.00097
		November			24	0.054	8.9	6.8	0.051	3.3	0.016	0.021	0.0063	0.035	0.00021	0.0041	0.0091	0.000034	0.000082	0.021	0.0000097	4.4	0.0011	0.00025	0.00097
		December			24	0.054	8.9	6.8	0.051	3.3	0.016	0.021	0.0063	0.035	0.00021	0.0041	0.0091	0.000034	0.000082	0.021	0.0000097	4.4	0.0011	0.00025	0.00097
		January	2035		24	0.054	8.9	6.8	0.051	3.3	0.016	0.021	0.0063	0.035	0.00021	0.0041	0.0091	0.000034	0.000082	0.021	0.0000097	4.4	0.0011	0.00025	0.00097
		February			24	0.054	8.9	6.8	0.051	3.3	0.016	0.021	0.0063	0.035	0.00021	0.0041	0.0091	0.000034	0.000082	0.021	0.0000097	4.4	0.0011	0.00025	0.00097
		March			24	0.054	8.9	6.8	0.051	3.3	0.016	0.021	0.0063	0.035	0.00021	0.0041	0.0091	0.000034	0.000082	0.021	0.0000097	4.4	0.0011	0.00025	0.00097
		April			24	0.054	8.9	6.8	0.051	3.3	0.016	0.021	0.0063	0.035	0.00021	0.0041	0.0091	0.000034	0.000082	0.021	0.0000097	4.4	0.0011	0.00025	0.00097
		May			24	0.054	8.9	6.8	0.051	3.3	0.016	0.021	0.0063	0.035	0.00021	0.0041	0.0091	0.000034	0.000082	0.021	0.0000097	4.4	0.0011	0.00025	0.00097
		June			17	0.0.																			

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05					0.004		0.25								0.1		
CCME (CEQG-PAL (chronic)) ² (mg/L)				0.3	0.001					0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	0.007
Constituent				Fe	Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Mammoth Lake	Closure, controlled discharge from pit lake	January	2032	0.11	0.00014	0.0019	1.8	0.016	0.000083	0.00059	0.0019	0.96	0.0001	0.000018	1.9	0.034	0.000017	0.00017	0.00024	0.00091	0.0025	
		February		0.11	0.00014	0.0019	1.8	0.016	0.000083	0.00059	0.0019	0.96	0.0001	0.000018	1.9	0.034	0.000017	0.00017	0.00024	0.00091	0.0025	
		March		0.11	0.00014	0.0019	1.8	0.016	0.000083	0.00059	0.0019	0.96	0.0001	0.000018	1.9	0.034	0.000017	0.00017	0.00024	0.00091	0.0025	
		April		0.11	0.00014	0.0019	1.8	0.016	0.000083	0.00059	0.0019	0.96	0.0001	0.000018	1.9	0.034	0.000017	0.00017	0.00024	0.00091	0.0025	
		May		0.11	0.00014	0.0019	1.8	0.016	0.000083	0.00059	0.0019	0.96	0.0001	0.000018	1.9	0.034	0.000017	0.00017	0.00024	0.00091	0.0025	
		June		0.079	0.000096	0.0014	1.3	0.011	0.000059	0.0004	0.0013	0.67	0.000072	0.000012	1.3	0.024	0.000012	0.00012	0.00016	0.00064	0.0018	
		July		0.061	0.000074	0.0011	0.96	0.008	0.000046	0.00029	0.001	0.51	0.000056	0.0000097	1.0	0.018	0.0000093	0.000091	0.00012	0.0005	0.0014	
		August		0.064	0.000077	0.0011	0.99	0.0082	0.000048	0.0003	0.0011	0.53	0.000058	0.00001	1.0	0.019	0.0000096	0.000095	0.00013	0.00052	0.0014	
		September		0.066	0.000079	0.0011	1.0	0.0083	0.000049	0.0003	0.0011	0.55	0.000059	0.00001	1.0	0.019	0.0000099	0.000098	0.00013	0.00054	0.0015	
		October		0.11	0.00013	0.0019	1.7	0.014	0.000084	0.0005	0.0019	0.93	0.0001	0.000018	1.8	0.032	0.000017	0.00017	0.00022	0.00092	0.0025	
		November		0.11	0.00013	0.0019	1.7	0.014	0.000084	0.0005	0.0019	0.93	0.0001	0.000018	1.8	0.032	0.000017	0.00017	0.00022	0.00092	0.0025	
		December		0.11	0.00013	0.0019	1.7	0.014	0.000084	0.0005	0.0019	0.93	0.0001	0.000018	1.8	0.032	0.000017	0.00017	0.00022	0.00092	0.0025	
		January	2033	0.11	0.00013	0.0019	1.7	0.014	0.000084	0.0005	0.0019	0.93	0.0001	0.000018	1.8	0.032	0.000017	0.00017	0.00022	0.00092	0.0025	
		February		0.11	0.00013	0.0019	1.7	0.014	0.000084	0.0005	0.0019	0.93	0.0001	0.000018	1.8	0.032	0.000017	0.00017	0.00022	0.00092	0.0025	
		March		0.11	0.00013	0.0019	1.7	0.014	0.000084	0.0005	0.0019	0.93	0.0001	0.000018	1.8	0.032	0.000017	0.00017	0.00022	0.00092	0.0025	
		April		0.11	0.00013	0.0019	1.7	0.014	0.000084	0.0005	0.0019	0.93	0.0001	0.000018	1.8	0.032	0.000017	0.00017	0.00022	0.00092	0.0025	
		May		0.11	0.00013	0.0019	1.7	0.014	0.000084	0.0005	0.0019	0.93	0.0001	0.000018	1.8	0.032	0.000017	0.00017	0.00022	0.00092	0.0025	
		June		0.079	0.000094	0.0013	1.2	0.0095	0.000059	0.00034	0.0013	0.65	0.00007	0.000012	1.2	0.022	0.000012	0.00012	0.00015	0.00065	0.0018	
		July		0.061	0.000073	0.001	0.92	0.007	0.000046	0.00025	0.001	0.5	0.000054	0.0000097	0.91	0.017	0.0000093	0.000092	0.00011	0.00051	0.0014	
		August		0.064	0.000075	0.0011	0.95	0.0072	0.000048	0.00026	0.001	0.52	0.000056	0.00001	0.94	0.018	0.0000097	0.000096	0.00011	0.00053	0.0014	
		September		0.066	0.000077	0.0011	0.97	0.0072	0.000049	0.00026	0.0011	0.53	0.000058	0.00001	0.95	0.018	0.000010	0.000098	0.00011	0.00054	0.0015	
		October		0.11	0.00013	0.0019	1.7	0.012	0.000084	0.00043	0.0018	0.91	0.000099	0.000018	1.6	0.031	0.000017	0.00017	0.00019	0.00092	0.0025	
		November		0.11	0.00013	0.0019	1.7	0.012	0.000084	0.00043	0.0018	0.91	0.000099	0.000018	1.6	0.031	0.000017	0.00017	0.00019	0.00092	0.0025	
		December		0.11	0.00013	0.0019	1.7	0.012	0.000084	0.00043	0.0018	0.91	0.000099	0.000018	1.6	0.031	0.000017	0.00017	0.00019	0.00092	0.0025	
		January	2034	0.11	0.00013	0.0019	1.7	0.012	0.000084	0.00043	0.0018	0.91	0.000099	0.000018	1.6	0.031	0.000017	0.00017	0.00019	0.00092	0.0025	
		February		0.11	0.00013	0.0019	1.7	0.012	0.000084	0.00043	0.0018	0.91	0.000099	0.000018	1.6	0.031	0.000017	0.00017	0.00019	0.00092	0.0025	
		March		0.11	0.00013	0.0019	1.7	0.012	0.000084	0.00043	0.0018	0.91	0.000099	0.000018	1.6	0.031	0.000017	0.00017	0.00019	0.00092	0.0025	
		April		0.11	0.00013	0.0019	1.7	0.012	0.000084	0.00043	0.0018	0.91	0.000099	0.000018	1.6	0.031	0.000017	0.00017	0.00019	0.00092	0.0025	
		May		0.11	0.00013	0.0019	1.7	0.012	0.000084	0.00043	0.0018	0.91	0.000099	0.000018	1.6	0.031	0.000017	0.00017	0.00019	0.00092	0.0025	
		June		0.079	0.000092	0.0013	1.2	0.0083	0.000059	0.00029	0.0013	0.64	0.000069	0.000013	1.1	0.021	0.000012	0.00012	0.00013	0.00065	0.0018	
		July		0.061	0.000072	0.001	0.89	0.0062	0.000046	0.00021	0.00099	0.49	0.000053	0.0000098	0.84	0.016	0.0000094	0.000093	0.000097	0.00051	0.0014	
		August		0.064	0.000074	0.0011	0.92	0.0063	0.000048	0.00022	0.001	0.51	0.000055	0.00001	0.87	0.017	0.0000098	0.000096	0.0001	0.00053	0.0014	
		September		0.066	0.000076	0.0011	0.94	0.0064	0.000049	0.00022	0.0011	0.52	0.000057	0.00001	0.88	0.017	0.0000099	0.000099	0.0001	0.00054	0.0014	
		October		0.11	0.00013	0.0019	1.6	0.011	0.000085	0.00037	0.0018	0.89	0.000097	0.000018	1.5	0.03	0.000017	0.00017	0.00017	0.00093	0.0025	
		November		0.11	0.00013	0.0019	1.6	0.011	0.000085	0.00037	0.0018	0.89	0.000097	0.000018	1.5	0.03	0.000017	0.00017	0.00017	0.00093	0.0025	
		December		0.11	0.00013	0.0019	1.6	0.011	0.000085	0.00037	0.0018	0.89	0.000097	0.000018	1.5	0.03	0.000017	0.00017	0.00017	0.00093	0.0025	
		January	2035	0.11	0.00013	0.0019	1.6	0.011	0.000085	0.00037	0.0018	0.89	0.000097	0.000018	1.5	0.03	0.000017	0.00017	0.00017	0.00093	0.0025	
		February		0.11	0.00013	0.0019	1.6	0.011	0.000085	0.00037	0.0018	0.89	0.000097	0.000018	1.5	0.03	0.000017	0.00017	0.00017	0.00093	0.0025	
		March		0.11	0.00013	0.0019	1.6	0.011	0.000085	0.00037	0.0018	0.89	0.000097	0.000018	1.5	0.03	0.000017	0.00017	0.00017	0.00093	0.0025	
		April		0.11	0.00013	0.0019	1.6	0.011	0.000085	0.00037	0.0018	0.89	0.000097	0.000018	1.5	0.03	0.000017	0.00017	0.00017	0.00093	0.0025	
		May		0.11	0.00013	0.0019	1.6	0.011	0.000085	0.00037	0.0018	0.89	0.000097	0.000018	1.5	0.03	0.000017	0.00017	0.00017	0.00093	0.0025	
		June		0.079	0.000091	0.0013	1.1	0.0074	0.000006	0.00025	0.0013	0.62	0.000068	0.000013	1.0	0.021	0.000012	0.00012	0.00012	0.00065	0.0018	
		July		0.061	0.000071	0.001	0.87	0.0055	0.0000046	0.00018	0.00098	0.48	0.000052	0.0000098	0.79	0.016	0.0000094	0.000093	0.000088	0.00051	0.0014	
		August		0.064	0.000073	0.0011	0.89	0.0056	0.0000048	0.00019	0.001	0.5	0.000055	0.00001	0.81	0.016	0.0000098	0.000097	0.000093	0.00053	0.0014	
		September		0.066	0.000075	0.0011	0.91	0.0057	0.000005	0.00019	0.001	0.51	0.000056	0.00001	0.83	0.017	0.0000099	0.000099	0.000095	0.00054	0.0014	
		October		0.11	0.00013	0.0018	1.6	0.0096	0.0000085	0.00033	0.0018	0.88	0.000095	0.000018	1.4	0.029	0.000017	0.00017	0.00016	0.00093	0.0025	
		November		0.11	0.00013	0.0018	1.6	0.0096	0.0000085	0.00033	0.0018	0.88	0.000095	0.000018	1.4	0.029	0.000017	0.00017	0.00016	0.00093	0.0025	
		December		0.11	0.00013	0.0018	1.6	0.0096	0.0000085	0.00033	0.0018	0.88	0.000095	0.000018	1.4	0.029	0.000017	0.00017	0.00016	0.00093	0.0025	
		January	2																			

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		2.93	0.3	0.5		0.1					0.002		0.02		0.1	
CCME (CEQG-PAL (chronic)) ² (mg/L)							120	0.12					0.01	0.1		0.025				1.5	0.00004				0.002	
LOCATION	Time Period	Month	Year	Constituent	TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁵	Ca	Cr	Co	Cu ⁶	
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Mammoth Lake	Closure, controlled discharge from pit lake	January	2037		22	0.047	8.6	6.0	0.05	3.1	0.014	0.018	0.0058	0.035	0.00021	0.0035	0.0087	0.000034	0.000083	0.02	0.000093	4.2	0.0011	0.00024	0.00097	
		February			22	0.047	8.6	6.0	0.05	3.1	0.014	0.018	0.0058	0.035	0.00021	0.0035	0.0087	0.000034	0.000083	0.02	0.000093	4.2	0.0011	0.00024	0.00097	
		March			22	0.047	8.6	6.0	0.05	3.1	0.014	0.018	0.0058	0.035	0.00021	0.0035	0.0087	0.000034	0.000083	0.02	0.000093	4.2	0.0011	0.00024	0.00097	
		April			22	0.047	8.6	6.0	0.05	3.1	0.014	0.018	0.0058	0.035	0.00021	0.0035	0.0087	0.000034	0.000083	0.02	0.000093	4.2	0.0011	0.00024	0.00097	
		May			22	0.047	8.6	6.0	0.05	3.1	0.014	0.018	0.0058	0.035	0.00021	0.0035	0.0087	0.000034	0.000083	0.02	0.000093	4.2	0.0011	0.00024	0.00097	
		June			16	0.029	6.1	4.2	0.035	2.2	0.0099	0.012	0.004	0.025	0.00015	0.0024	0.0061	0.000024	0.000059	0.014	0.000066	2.9	0.00076	0.00017	0.00068	
		July			12	0.021	4.7	3.2	0.027	1.7	0.0075	0.0091	0.0031	0.019	0.00011	0.0018	0.0048	0.000019	0.000046	0.011	0.000051	2.3	0.00059	0.00013	0.00053	
		August			13	0.025	4.9	3.3	0.028	1.7	0.0078	0.0094	0.0032	0.02	0.00012	0.0019	0.0049	0.00002	0.000048	0.011	0.000053	2.4	0.00062	0.00014	0.00055	
		September			13	0.027	5.0	3.4	0.029	1.8	0.0079	0.0095	0.0033	0.02	0.00012	0.0019	0.005	0.00002	0.000049	0.011	0.000054	2.4	0.00064	0.00014	0.00057	
		October			22	0.044	8.5	5.8	0.05	3.0	0.013	0.016	0.0056	0.035	0.00021	0.0033	0.0086	0.000034	0.000083	0.019	0.000092	4.1	0.0011	0.00024	0.00097	
		November			22	0.044	8.5	5.8	0.05	3.0	0.013	0.016	0.0056	0.035	0.00021	0.0033	0.0086	0.000034	0.000083	0.019	0.000092	4.1	0.0011	0.00024	0.00097	
		December			22	0.044	8.5	5.8	0.05	3.0	0.013	0.016	0.0056	0.035	0.00021	0.0033	0.0086	0.000034	0.000083	0.019	0.000092	4.1	0.0011	0.00024	0.00097	
		January	2038		22	0.044	8.5	5.8	0.05	3.0	0.013	0.016	0.0056	0.035	0.00021	0.0033	0.0086	0.000034	0.000083	0.019	0.000092	4.1	0.0011	0.00024	0.00097	
		February			22	0.044	8.5	5.8	0.05	3.0	0.013	0.016	0.0056	0.035	0.00021	0.0033	0.0086	0.000034	0.000083	0.019	0.000092	4.1	0.0011	0.00024	0.00097	
		March			22	0.044	8.5	5.8	0.05	3.0	0.013	0.016	0.0056	0.035	0.00021	0.0033	0.0086	0.000034	0.000083	0.019	0.000092	4.1	0.0011	0.00024	0.00097	
		April			22	0.044	8.5	5.8	0.05	3.0	0.013	0.016	0.0056	0.035	0.00021	0.0033	0.0086	0.000034	0.000083	0.019	0.000092	4.1	0.0011	0.00024	0.00097	
		May			22	0.044	8.5	5.8	0.05	3.0	0.013	0.016	0.0056	0.035	0.00021	0.0033	0.0086	0.000034	0.000083	0.019	0.000092	4.1	0.0011	0.00024	0.00097	
		June			15	0.027	6.0	4.1	0.035	2.1	0.0094	0.011	0.0039	0.025	0.00014	0.0023	0.0061	0.000024	0.000059	0.013	0.000065	2.9	0.00076	0.00017	0.00068	
		July			12	0.02	4.6	3.1	0.027	1.7	0.0072	0.0084	0.003	0.019	0.00011	0.0017	0.0047	0.000019	0.000046	0.01	0.00005	2.2	0.00059	0.00013	0.00053	
		August			12	0.024	4.8	3.2	0.028	1.7	0.0074	0.0087	0.0031	0.02	0.00012	0.0018	0.0049	0.00002	0.000048	0.011	0.000052	2.3	0.00062	0.00013	0.00055	
		September			13	0.025	4.9	3.3	0.029	1.8	0.0075	0.0088	0.0032	0.02	0.00012	0.0018	0.005	0.00002	0.000049	0.011	0.000054	2.4	0.00064	0.00014	0.00057	
		October			21	0.042	8.4	5.6	0.049	3.0	0.013	0.015	0.0054	0.035	0.00021	0.0031	0.0085	0.000034	0.000084	0.019	0.000091	4.0	0.0011	0.00023	0.00097	
		November			21	0.042	8.4	5.6	0.049	3.0	0.013	0.015	0.0054	0.035	0.00021	0.0031	0.0085	0.000034	0.000084	0.019	0.000091	4.0	0.0011	0.00023	0.00097	
		December			21	0.042	8.4	5.6	0.049	3.0	0.013	0.015	0.0054	0.035	0.00021	0.0031	0.0085	0.000034	0.000084	0.019	0.000091	4.0	0.0011	0.00023	0.00097	
		January	2039		21	0.042	8.4	5.6	0.049	3.0	0.013	0.015	0.0054	0.035	0.00021	0.0031	0.0085	0.000034	0.000084	0.019	0.000091	4.0	0.0011	0.00023	0.00097	
		February			21	0.042	8.4	5.6	0.049	3.0	0.013	0.015	0.0054	0.035	0.00021	0.0031	0.0085	0.000034	0.000084	0.019	0.000091	4.0	0.0011	0.00023	0.00097	
		March			21	0.042	8.4	5.6	0.049	3.0	0.013	0.015	0.0054	0.035	0.00021	0.0031	0.0085	0.000034	0.000084	0.019	0.000091	4.0	0.0011	0.00023	0.00097	
		April			21	0.042	8.4	5.6	0.049	3.0	0.013	0.015	0.0054	0.035	0.00021	0.0031	0.0085	0.000034	0.000084	0.019	0.000091	4.0	0.0011	0.00023	0.00097	
		May			21	0.042	8.4	5.6	0.049	3.0	0.013	0.015	0.0054	0.035	0.00021	0.0031	0.0085	0.000034	0.000084	0.019	0.000091	4.0	0.0011	0.00023	0.00097	
		June			15	0.026	5.9	3.9	0.035	2.1	0.009	0.01	0.0038	0.024	0.00014	0.0022	0.006	0.000024	0.000059	0.013	0.000064	2.9	0.00076	0.00016	0.00068	
		July			12	0.019	4.6	3.0	0.027	1.6	0.0069	0.0079	0.0029	0.019	0.00011	0.0016	0.0047	0.000019	0.000046	0.01	0.00005	2.2	0.00059	0.00013	0.00053	
		August			12	0.023	4.8	3.1	0.028	1.7	0.0071	0.0081	0.003	0.02	0.00012	0.0017	0.0048	0.00002	0.000048	0.011	0.000052	2.3	0.00062	0.00013	0.00055	
		September			12	0.024	4.9	3.2	0.029	1.7	0.0072	0.0082	0.0031	0.02	0.00012	0.0018	0.0049	0.00002	0.000049	0.011	0.000053	2.3	0.00064	0.00014	0.00056	
		October			21	0.04	8.4	5.4	0.049	3.0	0.012	0.014	0.0053	0.035	0.0002	0.003	0.0084	0.000034	0.000084	0.018	0.000091	4.0	0.0011	0.00023	0.00096	
		November			21	0.04	8.4	5.4	0.049	3.0	0.012	0.014	0.0053	0.035	0.0002	0.003	0.0084	0.000034	0.000084	0.018	0.000091	4.0	0.0011	0.00023	0.00096	
		December			21	0.04	8.4	5.4	0.049	3.0	0.012	0.014	0.0053	0.035	0.0002	0.003	0.0084	0.000034	0.000084	0.018	0.000091	4.0	0.0011	0.00023	0.00096	
		MINIMUM				12	0.019	4.6	3.0	0.027	1.6	0.0069	0.0079	0.0029	0.019	0.00011	0.0016	0.0047	0.000018	0.000043	0.01	0.00005	2.2	0.00059	0.00013	0.00053
		MAXIMUM				41	0.17	12	14	0.059	5.3	0.038	0.24	0.012	0.05	0.00029	0.0094	0.013	0.000035	0.000084	0.037	0.000013	6.7	0.0014	0.00034	0.0011
		AVERAGE				24	0.064	8.2	7.1	0.045	3.2	0.018	0.043	0.0065	0.032	0.0002	0.0045	0.0085	0.000029	0.00007	0.021	0.000089	4.2	0.00098	0.00023	0.00085

Notes:
¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells
²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEQG's shown in bold-underlined type
³CEQG Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed
⁴CEQG Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.
⁶CEQG Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 11 mg/L.
⁷ The CEQG aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

Site and Downstream Water Quality Model Predictions
Whale Tail Approved Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)										1.0	0.05				0.004		0.25																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

Notes:
¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells
²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEQG's shown in bold-underlined type
³CEQG Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed
⁴CEQG Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.
⁵CEQG Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 11 mg/L.
⁷ The CEQG aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

Site and Downstream Water Quality Model Predictions
Whale Tail Approved Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ⁶ (mg/L)				1400						16		2.93	0.3	0.5		0.1					0.002		0.02		0.1
CCME (CEQG-PAL [chronic]) ⁷ (mg/L)							120	0.12					0.01	0.1		0.025				1.5	0.00004			0.002	
LOCATION	Time Period	Month	Year	Constituent	TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁸	Ca	Cr	Co	Cu ⁸
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Mammoth Outlet	Construction and Operations	January	2018		15	0	5.2	4.2	0.026	2.3	0.0065	0.0051	0.0025	0.0078	0.0001	0.00039	0.006	0.00002	0.00005	0.01	0.000005	3.1	0.00012	0.0001	0.00052
		February			15	0	5.2	4.2	0.026	2.3	0.0065	0.0051	0.0025	0.0078	0.0001	0.00039	0.006	0.00002	0.00005	0.01	0.0000051	3.1	0.00012	0.0001	0.00052
		March			15	0	5.2	4.2	0.026	2.3	0.0065	0.0051	0.0025	0.0078	0.0001	0.00039	0.006	0.00002	0.00005	0.01	0.0000051	3.1	0.00012	0.0001	0.00052
		April			15	0	5.2	4.2	0.026	2.3	0.0066	0.0051	0.0025	0.0078	0.0001	0.00039	0.006	0.00002	0.00005	0.01	0.0000051	3.1	0.00012	0.0001	0.00052
		May			15	0	5.2	4.2	0.026	2.3	0.0066	0.0051	0.0025	0.0078	0.0001	0.00039	0.006	0.00002	0.00005	0.01	0.0000051	3.1	0.00012	0.0001	0.00052
		June			14	0.000024	5.3	3.6	0.03	2.0	0.0068	0.0098	0.0086	0.19	0.00012	0.0027	0.0072	0.000026	0.000056	0.011	0.0000065	2.9	0.0051	0.00041	0.00084
		July			11	0.000056	4.2	2.6	0.026	1.5	0.0055	0.0076	0.0093	0.24	0.0001	0.0032	0.0063	0.000023	0.000047	0.009	0.0000058	2.3	0.0064	0.00046	0.00082
		August			12	0.000068	4.4	2.8	0.026	1.5	0.006	0.019	0.009	0.23	0.0001	0.0031	0.0064	0.000023	0.000048	0.0092	0.0000058	2.4	0.0061	0.00045	0.00081
		September			11	0.00012	4.3	2.8	0.026	1.5	0.006	0.025	0.0087	0.22	0.0001	0.003	0.0063	0.000023	0.000047	0.0091	0.0000057	2.4	0.0058	0.00043	0.00079
		October			12	0.00016	4.6	2.9	0.027	1.6	0.0063	0.026	0.0091	0.23	0.00011	0.0031	0.0066	0.000024	0.000049	0.0095	0.000006	2.5	0.0061	0.00045	0.00083
		November			12	0.00016	4.6	2.9	0.027	1.6	0.0063	0.026	0.0091	0.23	0.00011	0.0031	0.0066	0.000024	0.000049	0.0096	0.000006	2.5	0.0061	0.00045	0.00083
		December			12	0.00016	4.6	2.9	0.027	1.6	0.0063	0.026	0.0091	0.23	0.00011	0.0031	0.0067	0.000024	0.000049	0.0096	0.000006	2.5	0.0061	0.00045	0.00084
		January	2019		12	0.00016	4.6	2.9	0.027	1.6	0.0063	0.026	0.0091	0.23	0.00011	0.0031	0.0067	0.000024	0.000049	0.0096	0.000006	2.5	0.0061	0.00045	0.00084
		February			12	0.00016	4.6	2.9	0.027	1.6	0.0064	0.026	0.0092	0.23	0.00011	0.0031	0.0067	0.000024	0.00005	0.0096	0.000006	2.5	0.0061	0.00045	0.00084
		March			12	0.00016	4.6	3.0	0.027	1.6	0.0064	0.026	0.0092	0.23	0.00011	0.0031	0.0067	0.000024	0.00005	0.0096	0.000006	2.5	0.0061	0.00045	0.00084
		April			12	0.00016	4.6	3.0	0.027	1.6	0.0064	0.026	0.0092	0.23	0.00011	0.0031	0.0067	0.000024	0.00005	0.0096	0.000006	2.5	0.0061	0.00045	0.00084
		May			12	0.00016	4.6	3.0	0.028	1.6	0.0064	0.026	0.0092	0.23	0.00011	0.0031	0.0067	0.000024	0.00005	0.0096	0.000006	2.5	0.0061	0.00045	0.00084
		June			39	0.000026	6.7	17	0.031	3.8	0.013	0.027	0.0031	0.039	0.000087	0.00075	0.018	0.000052	0.000043	0.0086	0.0000045	10	0.00091	0.00013	0.0005
		July			39	0.0078	6.3	17	0.028	3.6	0.014	0.046	0.003	0.019	0.00007	0.00051	0.017	0.000049	0.000034	0.0088	0.000004	9.8	0.00039	0.000094	0.0004
		August			46	0.093	7.7	20	0.034	4.3	0.024	0.27	0.0068	0.036	0.000093	0.0015	0.018	0.000048	0.000036	0.016	0.000006	10	0.00088	0.00016	0.00051
		September			58	0.2	10	25	0.045	5.5	0.036	0.46	0.012	0.057	0.00013	0.0032	0.019	0.000045	0.00004	0.03	0.0000097	11	0.0015	0.00025	0.00068
		October			120	0.53	22	52	0.094	11	0.087	1.2	0.026	0.14	0.00026	0.0078	0.036	0.000071	0.000067	0.075	0.000023	20	0.0037	0.0006	0.0014
		November			120	0.54	23	51	0.099	11	0.091	1.2	0.027	0.16	0.00028	0.0081	0.035	0.000068	0.000074	0.08	0.000024	20	0.0043	0.00066	0.0015
		December			105	0.45	21	45	0.092	10	0.08	1.0	0.025	0.15	0.00027	0.0069	0.031	0.000063	0.000078	0.072	0.000023	17	0.004	0.00061	0.0015
		January	2020		104	0.43	21	44	0.092	10.0	0.079	1.0	0.025	0.15	0.00026	0.0068	0.031	0.000062	0.000079	0.072	0.000023	17	0.004	0.00061	0.0015
		February			104	0.43	21	44	0.092	10.0	0.079	1.0	0.025	0.15	0.00026	0.0068	0.031	0.000062	0.000079	0.072	0.000023	17	0.004	0.00061	0.0015
		March			104	0.43	21	44	0.092	10.0	0.079	1.0	0.025	0.15	0.00026	0.0068	0.031	0.000062	0.000079	0.072	0.000023	17	0.004	0.00061	0.0015
		April			104	0.43	21	44	0.092	10.0	0.079	1.0	0.025	0.15	0.00026	0.0068	0.031	0.000062	0.000079	0.072	0.000023	17	0.004	0.00061	0.0015
		May			104	0.43	21	44	0.092	10.0	0.079	1.0	0.025	0.15	0.00026	0.0068	0.031	0.000062	0.000079	0.072	0.000023	17	0.004	0.00061	0.0015
		June			66	0.23	14	27	0.062	6.4	0.053	0.7	0.016	0.10	0.00018	0.0043	0.019	0.00004	0.000059	0.047	0.000015	11	0.0026	0.00041	0.001
		July			48	0.15	11	19	0.047	4.8	0.04	0.52	0.013	0.078	0.00015	0.0043	0.014	0.000027	0.000046	0.038	0.000012	7.3	0.0021	0.00032	0.0008
		August			52	0.24	12	20	0.051	5.6	0.043	0.59	0.014	0.082	0.00023	0.0095	0.014	0.000028	0.000047	0.047	0.000013	7.8	0.0023	0.00038	0.0009
		September			52	0.28	12	20	0.051	5.9	0.042	0.59	0.015	0.08	0.00027	0.012	0.014	0.000027	0.000047	0.05	0.000013	7.7	0.0023	0.0004	0.00093
		October			79	0.41	18	31	0.077	8.8	0.064	0.91	0.023	0.12	0.00041	0.019	0.022	0.00004	0.000068	0.077	0.00002	12	0.0035	0.00061	0.0014
		November			96	0.46	22	38	0.092	11	0.077	1.1	0.028	0.15	0.00047	0.021	0.026	0.000047	0.000079	0.094	0.000024	14	0.0042	0.00073	0.0016
		December			102	0.44	23	41	0.096	11	0.081	1.1	0.029	0.16	0.00046	0.021	0.028	0.000048	0.000081	0.098	0.000026	15	0.0045	0.00076	0.0017
		January	2021		106	0.41	24	43	0.099	11	0.083	1.1	0.03	0.17	0.00045	0.02	0.028	0.000049	0.000081	0.1	0.000027	15	0.0046	0.00077	0.0017
		February			107	0.38	24	43	0.099	11	0.084	1.1	0.031	0.17	0.00043	0.019	0.029	0.000049	0.000082	0.1	0.000027	15	0.0048	0.00078	0.0017
		March			107	0.36	24	44	0.10	11	0.085	1.1	0.031	0.17	0.00042	0.018	0.029	0.000049	0.000082	0.1	0.000027	15	0.0049	0.00078	0.0017
		April			107	0.34	24	44	0.10	11	0.086	1.0	0.032	0.18	0.0004	0.017	0.029	0.000049	0.000083	0.10	0.000027	15	0.005	0.00078	0.0017
		May			107	0.31	24	44	0.10	11	0.087	1.0	0.032	0.18	0.00039	0.016	0.029	0.000049	0.000083	0.099	0.000027	15	0.0051	0.00078	0.0017
		June			68	0.18	15	27	0.066	7.0	0.059	0.64	0.02	0.12	0.00025	0.0092	0.019	0.000034	0.000061	0.062	0.000018	9.9	0.0032	0.0005	0.0012
		July			48	0.16	11	19	0.048	5.1	0.046	0.54	0.015	0.084	0.00021	0.0085	0.013	0.000025	0.000046	0.046</					

Site and Downstream Water Quality Model Predictions
Whale Tail Approved Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05				0.004		0.25									0.1	
CCME (CEQG-PAL (chronic)) ² (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	0.007
Constituent				Fe	Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁸	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Mammoth Outlet	Construction and Operations	January	2018	0.016	0.000074	0.0011	0.93	0.0024	0.000005	0.000056	0.00083	0.6	0.00005	0.00001	0.6	0.02	0.00001	0.0001	0.000024	0.0005	0.003
		February		0.016	0.000074	0.0011	0.94	0.0024	0.000005	0.000056	0.00083	0.6	0.00005	0.00001	0.6	0.02	0.00001	0.0001	0.000024	0.0005	0.003
		March		0.016	0.000074	0.0011	0.94	0.0024	0.000005	0.000056	0.00083	0.6	0.00005	0.00001	0.6	0.02	0.00001	0.0001	0.000024	0.0005	0.003
		April		0.016	0.000074	0.0011	0.94	0.0024	0.000005	0.000056	0.00083	0.6	0.00005	0.00001	0.6	0.02	0.00001	0.0001	0.000024	0.0005	0.003
		May		0.016	0.000074	0.0011	0.94	0.0024	0.000005	0.000056	0.00084	0.6	0.00005	0.00001	0.6	0.02	0.00001	0.0001	0.000024	0.0005	0.003
		June		0.41	0.00015	0.0013	1.1	0.0088	0.0000055	0.000068	0.0031	0.63	0.000057	0.000017	0.63	0.019	0.000014	0.00011	0.000042	0.001	0.0025
		July		0.51	0.00015	0.0011	1.0	0.010	0.0000045	0.00006	0.0036	0.52	0.000048	0.000017	0.51	0.015	0.000013	0.000095	0.000042	0.0011	0.0019
		August		0.49	0.00015	0.0011	1.0	0.0096	0.0000046	0.000061	0.0034	0.54	0.000049	0.000017	0.53	0.015	0.000013	0.000097	0.000042	0.001	0.002
		September		0.47	0.00014	0.0011	1.0	0.0093	0.0000046	0.00006	0.0033	0.53	0.000049	0.000016	0.53	0.015	0.000013	0.000095	0.000041	0.001	0.002
		October		0.49	0.00015	0.0012	1.0	0.0097	0.0000048	0.000063	0.0035	0.56	0.000051	0.000017	0.55	0.016	0.000013	0.0001	0.000044	0.0011	0.0021
		November		0.49	0.00015	0.0012	1.0	0.0097	0.0000048	0.000063	0.0035	0.56	0.000051	0.000017	0.56	0.016	0.000013	0.0001	0.000044	0.0011	0.0021
		December		0.49	0.00015	0.0012	1.0	0.0097	0.0000048	0.000063	0.0035	0.56	0.000051	0.000017	0.56	0.016	0.000013	0.0001	0.000044	0.0011	0.0021
		January	2019	0.49	0.00015	0.0012	1.0	0.0097	0.0000048	0.000063	0.0035	0.56	0.000051	0.000017	0.56	0.016	0.000013	0.0001	0.000044	0.0011	0.0021
		February		0.49	0.00015	0.0012	1.0	0.0097	0.0000048	0.000063	0.0035	0.56	0.000051	0.000017	0.56	0.016	0.000013	0.0001	0.000044	0.0011	0.0021
		March		0.49	0.00015	0.0012	1.1	0.0098	0.0000048	0.000064	0.0035	0.56	0.000051	0.000017	0.56	0.016	0.000013	0.0001	0.000044	0.0011	0.0021
		April		0.49	0.00015	0.0012	1.1	0.0098	0.0000048	0.000064	0.0035	0.57	0.000051	0.000017	0.56	0.016	0.000013	0.0001	0.000044	0.0011	0.0021
		May		0.49	0.00015	0.0012	1.1	0.0098	0.0000048	0.000064	0.0035	0.57	0.000051	0.000017	0.56	0.016	0.000013	0.0001	0.000044	0.0011	0.0021
		June		0.076	0.000064	0.0038	1.8	0.0028	0.0000043	0.00021	0.0016	1.4	0.000043	0.0000096	1.0	0.088	0.000009	0.000086	0.000032	0.0005	0.0024
		July		0.033	0.000048	0.0036	1.8	0.0032	0.0000034	0.00031	0.0012	1.3	0.000037	0.0000073	1.1	0.087	0.000007	0.000069	0.00006	0.00037	0.002
		August		0.075	0.000072	0.0037	2.2	0.0093	0.0000036	0.00072	0.0017	1.4	0.000051	0.0000087	2.0	0.09	0.0000077	0.000073	0.00019	0.00043	0.0021
		September		0.13	0.00012	0.0037	2.9	0.021	0.000004	0.0015	0.0024	1.4	0.000078	0.000011	3.5	0.095	0.0000089	0.000081	0.00042	0.00052	0.0024
		October		0.31	0.00026	0.0064	6.2	0.056	0.0000066	0.0039	0.0052	2.6	0.00017	0.000021	8.9	0.17	0.000015	0.00013	0.0012	0.00096	0.0044
		November		0.36	0.00029	0.0061	6.4	0.06	0.0000073	0.0041	0.0055	2.5	0.00018	0.000023	9.3	0.17	0.000017	0.00015	0.0012	0.0011	0.0049
		December		0.34	0.00028	0.0054	5.7	0.053	0.0000077	0.0036	0.005	2.2	0.00017	0.000023	8.2	0.14	0.000018	0.00015	0.0011	0.0011	0.005
		January	2020	0.34	0.00028	0.0054	5.6	0.053	0.0000077	0.0036	0.0049	2.2	0.00017	0.000023	8.1	0.14	0.000018	0.00015	0.0011	0.0011	0.005
		February		0.34	0.00028	0.0054	5.6	0.053	0.0000077	0.0036	0.0049	2.2	0.00017	0.000023	8.1	0.14	0.000018	0.00015	0.0011	0.0011	0.005
		March		0.34	0.00028	0.0054	5.6	0.053	0.0000077	0.0036	0.0049	2.2	0.00017	0.000023	8.1	0.14	0.000018	0.00015	0.0011	0.0011	0.005
		April		0.34	0.00028	0.0054	5.6	0.053	0.0000077	0.0036	0.0049	2.2	0.00017	0.000023	8.1	0.14	0.000018	0.00015	0.0011	0.0011	0.0051
		May		0.34	0.00028	0.0054	5.6	0.053	0.0000077	0.0036	0.0049	2.2	0.00017	0.000023	8.1	0.14	0.000018	0.00015	0.0011	0.0011	0.0051
		June		0.22	0.00019	0.0033	3.6	0.033	0.0000058	0.0022	0.0031	1.4	0.00012	0.000016	5.2	0.086	0.000013	0.00012	0.00067	0.0008	0.0037
		July		0.18	0.00015	0.0023	2.7	0.028	0.0000045	0.0017	0.0023	0.97	0.000096	0.000013	4.0	0.058	0.00001	0.000091	0.00052	0.00063	0.0029
		August		0.2	0.00018	0.0024	2.8	0.037	0.0000048	0.0019	0.0029	1.1	0.00012	0.000014	4.5	0.061	0.000011	0.000095	0.00058	0.00069	0.003
		September		0.2	0.00019	0.0023	2.8	0.041	0.000005	0.0019	0.0031	1.2	0.00013	0.000015	4.6	0.06	0.000011	0.000097	0.00058	0.0007	0.003
		October		0.31	0.00029	0.0034	4.3	0.063	0.0000072	0.0029	0.0047	1.7	0.0002	0.000021	7.1	0.09	0.000016	0.00014	0.0009	0.001	0.0044
		November		0.37	0.00034	0.0041	5.3	0.075	0.0000083	0.0036	0.0055	2.0	0.00024	0.000025	8.7	0.11	0.000018	0.00016	0.0011	0.0012	0.0051
		December		0.39	0.00036	0.0043	5.6	0.078	0.0000083	0.0039	0.0056	2.1	0.00025	0.000026	9.4	0.12	0.000019	0.00016	0.0012	0.0012	0.0052
		January	2021	0.4	0.00036	0.0045	5.9	0.08	0.0000083	0.0042	0.0056	2.1	0.00025	0.000026	9.8	0.12	0.000019	0.00016	0.0013	0.0013	0.0053
		February		0.41	0.00037	0.0045	6.0	0.079	0.0000083	0.0042	0.0055	2.1	0.00025	0.000026	9.9	0.12	0.000019	0.00016	0.0013	0.0013	0.0053
		March		0.42	0.00036	0.0045	6.0	0.078	0.0000082	0.0043	0.0055	2.1	0.00024	0.000026	9.9	0.12	0.000019	0.00016	0.0013	0.0013	0.0052
		April		0.42	0.00036	0.0045	6.0	0.078	0.0000082	0.0043	0.0054	2.1	0.00024	0.000026	9.9	0.12	0.000019	0.00016	0.0013	0.0013	0.0052
		May		0.43	0.00036	0.0045	6.0	0.077	0.0000082	0.0043	0.0054	2.0	0.00024	0.000026	9.9	0.12	0.000019	0.00016	0.0013	0.0013	0.0052
		June		0.27	0.00024	0.0029	3.8	0.047	0.000006	0.0026	0.0034	1.3	0.00015	0.000018	6.2	0.078	0.000014	0.00012	0.0008	0.00089	0.0038
		July		0.2	0.00018	0.0021	2.7	0.035	0.0000046	0.0018	0.0027	0.99	0.00012	0.000014	4.3	0.054	0.00001	0.000092	0.00055	0.00068	0.0028
		August		0.21	0.00019	0.0021	2.7	0.042	0.0000049	0.0018	0.0031	1.1	0.00014	0.000015	4.4	0.053	0.000011	0.000096	0.00056	0.00072	0.0029
		September		0.21	0.0002	0.002	2.5	0.042	0.0000051	0.0016	0.0033	1.1	0.00014	0.000015	4.2	0.05	0.000011	0.000098	0.00052	0.00073	0.0029
		October		0.31	0.00029	0.0029	3.7	0.062	0.0000073	0.0024	0.0048	1.6	0.00021	0.000022	6.2	0.072	0.000016	0.00014	0.00076	0.0011	0.0041
		November		0.38	0.00034	0.0034	4.3	0.073	0.0000084	0.0029	0.0056	1.9	0.00025	0.000025	7.3	0.086	0.000019	0.00016	0.0009	0.0012	0.0047
		December		0.39	0.00034	0.0035	4.5	0.073	0.0000085	0.003	0.0056	1.9	0.00025	0.000026	7.5	0.088	0.000019	0.00016	0.00093	0.0013	0.0048
		January	2022	0.4	0.00034	0.0036	4.6	0.072	0.0000085	0.0031	0.0056	1.9	0.00024	0.000026	7.6	0.09	0.000019	0.00016	0.00095	0.0013	0.0048
		February		0.41	0.00034	0.0036	4.6	0.071	0.0000085												

Site and Downstream Water Quality Model Predictions
Whale Tail Approved Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ⁶ (mg/L)				1400						16		2.93	0.3	0.5		0.1					0.002		0.02		0.1
CCME (CEQG-PAL [chronic]) ⁷ (mg/L)							120	0.12					0.01	0.1		0.025				1.5	0.00004			0.002	
LOCATION	Time Period	Month	Year	Constituent	TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ²	Ba	Be	Bi	B	Cd ⁵	Ca	Cr	Co	Cu ⁶
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Mammoth Outlet	Closure, no mine contact water discharge	August	2022		38	0.26	9.7	13	0.042	4.6	0.045	0.56	0.012	0.074	0.00025	0.011	0.011	0.000023	0.000047	0.04	0.000011	5.6	0.002	0.00035	0.00084
		September			33	0.21	8.7	11	0.039	4.1	0.036	0.43	0.010	0.059	0.00022	0.0086	0.0097	0.000023	0.000048	0.033	0.0000094	5.1	0.0016	0.00029	0.00077
		October			32	0.2	8.5	11	0.038	4.0	0.035	0.41	0.0096	0.056	0.00022	0.0083	0.0096	0.000023	0.000048	0.032	0.0000092	5.0	0.0015	0.00029	0.00076
		November			32	0.2	8.6	11	0.038	4.0	0.035	0.41	0.0096	0.056	0.00022	0.0083	0.0096	0.000023	0.000048	0.032	0.0000092	5.0	0.0015	0.00029	0.00077
		December			32	0.2	8.6	11	0.038	4.1	0.035	0.42	0.0096	0.057	0.00022	0.0083	0.0096	0.000023	0.000048	0.032	0.0000093	5.0	0.0016	0.00029	0.00077
		January	2023		32	0.2	8.6	11	0.039	4.1	0.035	0.42	0.0097	0.057	0.00022	0.0084	0.0097	0.000023	0.000048	0.033	0.0000093	5.0	0.0016	0.00029	0.00077
		February			32	0.2	8.6	11	0.039	4.1	0.035	0.42	0.0097	0.057	0.00022	0.0084	0.0097	0.000023	0.000048	0.033	0.0000093	5.0	0.0016	0.00029	0.00077
		March			32	0.2	8.6	11	0.039	4.1	0.035	0.42	0.0097	0.057	0.00022	0.0084	0.0097	0.000023	0.000048	0.033	0.0000093	5.0	0.0016	0.00029	0.00077
		April			33	0.2	8.6	11	0.039	4.1	0.035	0.42	0.0097	0.057	0.00022	0.0084	0.0097	0.000023	0.000049	0.033	0.0000093	5.0	0.0016	0.00029	0.00077
		May			33	0.2	8.6	11	0.039	4.1	0.035	0.42	0.0097	0.057	0.00022	0.0084	0.0097	0.000023	0.000049	0.033	0.0000093	5.0	0.0016	0.00029	0.00077
		June			37	0.24	9.8	13	0.044	4.7	0.041	0.48	0.011	0.065	0.00025	0.0097	0.011	0.000026	0.000055	0.037	0.000011	5.7	0.0018	0.00033	0.00088
		July			30	0.17	8.1	9.9	0.037	3.8	0.031	0.35	0.0085	0.049	0.0002	0.0071	0.0091	0.000022	0.000049	0.029	0.0000086	4.7	0.0013	0.00026	0.00073
		August			28	0.14	7.9	9.2	0.036	3.7	0.027	0.3	0.0077	0.043	0.00019	0.006	0.0089	0.000023	0.000052	0.026	0.0000083	4.6	0.0011	0.00024	0.00072
		September			28	0.15	7.7	9.3	0.035	3.6	0.028	0.31	0.0078	0.044	0.00019	0.0063	0.0087	0.000022	0.000049	0.027	0.0000082	4.5	0.0012	0.00024	0.00071
		October			29	0.16	7.9	9.6	0.036	3.7	0.029	0.33	0.0082	0.047	0.0002	0.0068	0.0089	0.000022	0.000048	0.028	0.0000084	4.6	0.0013	0.00025	0.00072
		November			29	0.16	7.9	9.6	0.036	3.7	0.029	0.33	0.0082	0.047	0.0002	0.0068	0.0089	0.000022	0.000049	0.028	0.0000084	4.6	0.0013	0.00025	0.00072
		December			29	0.16	7.9	9.7	0.036	3.7	0.03	0.34	0.0082	0.047	0.0002	0.0068	0.0089	0.000022	0.000049	0.028	0.0000084	4.6	0.0013	0.00025	0.00072
		January	2024		29	0.16	7.9	9.7	0.036	3.7	0.03	0.34	0.0082	0.047	0.0002	0.0068	0.0089	0.000022	0.000049	0.028	0.0000084	4.6	0.0013	0.00025	0.00072
		February			29	0.16	7.9	9.7	0.036	3.7	0.03	0.34	0.0083	0.047	0.0002	0.0068	0.0089	0.000022	0.000049	0.028	0.0000084	4.6	0.0013	0.00025	0.00072
		March			29	0.16	7.9	9.7	0.036	3.7	0.03	0.34	0.0083	0.047	0.0002	0.0068	0.0089	0.000022	0.000049	0.028	0.0000085	4.6	0.0013	0.00025	0.00072
		April			29	0.16	7.9	9.7	0.036	3.7	0.03	0.34	0.0083	0.047	0.0002	0.0068	0.009	0.000022	0.000049	0.028	0.0000085	4.7	0.0013	0.00025	0.00072
		May			29	0.16	8.0	9.7	0.036	3.7	0.03	0.34	0.0083	0.047	0.0002	0.0069	0.009	0.000022	0.000049	0.028	0.0000085	4.7	0.0013	0.00025	0.00072
		June			34	0.19	9.1	11	0.041	4.3	0.035	0.4	0.0097	0.055	0.00023	0.0081	0.01	0.000025	0.000055	0.033	0.0000097	5.3	0.0015	0.00029	0.00082
		July			27	0.14	7.6	8.9	0.035	3.5	0.026	0.29	0.0074	0.042	0.00018	0.0059	0.0085	0.000022	0.000049	0.026	0.000008	4.4	0.0011	0.00023	0.00069
		August			26	0.12	7.4	8.4	0.035	3.4	0.024	0.24	0.0068	0.037	0.00018	0.0051	0.0084	0.000023	0.000052	0.024	0.0000078	4.4	0.00096	0.00021	0.00069
		September			26	0.12	7.3	8.4	0.034	3.4	0.024	0.26	0.0069	0.038	0.00017	0.0053	0.0082	0.000022	0.000049	0.024	0.0000076	4.3	0.0010	0.00021	0.00067
		October			26	0.13	7.3	8.5	0.033	3.4	0.025	0.27	0.0071	0.039	0.00018	0.0055	0.0082	0.000021	0.000048	0.024	0.0000077	4.3	0.001	0.00022	0.00067
		November			26	0.13	7.3	8.5	0.033	3.4	0.025	0.27	0.0071	0.039	0.00018	0.0055	0.0082	0.000021	0.000048	0.024	0.0000077	4.3	0.001	0.00022	0.00067
		December			26	0.13	7.3	8.5	0.034	3.4	0.025	0.27	0.0071	0.039	0.00018	0.0056	0.0082	0.000021	0.000048	0.024	0.0000077	4.3	0.001	0.00022	0.00067
		January	2025		26	0.13	7.3	8.5	0.034	3.4	0.025	0.27	0.0071	0.039	0.00018	0.0056	0.0082	0.000021	0.000048	0.024	0.0000077	4.3	0.0011	0.00022	0.00067
		February			26	0.13	7.3	8.6	0.034	3.4	0.025	0.27	0.0071	0.039	0.00018	0.0056	0.0083	0.000021	0.000048	0.024	0.0000077	4.3	0.0011	0.00022	0.00067
		March			26	0.13	7.3	8.6	0.034	3.4	0.025	0.27	0.0071	0.039	0.00018	0.0056	0.0083	0.000021	0.000048	0.025	0.0000077	4.3	0.0011	0.00022	0.00067
		April			26	0.13	7.3	8.6	0.034	3.4	0.025	0.27	0.0071	0.04	0.00018	0.0056	0.0083	0.000021	0.000048	0.025	0.0000077	4.3	0.0011	0.00022	0.00067
		May			26	0.13	7.3	8.6	0.034	3.4	0.025	0.27	0.0071	0.04	0.00018	0.0056	0.0083	0.000021	0.000048	0.025	0.0000077	4.3	0.0011	0.00022	0.00067
		June			30	0.16	8.5	10	0.039	4.0	0.03	0.33	0.0084	0.047	0.00021	0.0067	0.0096	0.000025	0.000055	0.029	0.000009	5.0	0.0013	0.00026	0.00078
		July			25	0.12	7.1	8.1	0.033	3.3	0.023	0.24	0.0066	0.036	0.00017	0.0049	0.0081	0.000022	0.000049	0.023	0.0000075	4.2	0.00094	0.00021	0.00066
		August			24	0.098	7.1	7.7	0.033	3.3	0.021	0.2	0.006	0.032	0.00016	0.0042	0.008	0.000022	0.000052	0.021	0.0000073	4.2	0.00082	0.00019	0.00066
		September			24	0.1	6.9	7.6	0.032	3.2	0.021	0.21	0.0061	0.032	0.00016	0.0044	0.0078	0.000021	0.000049	0.021	0.0000072	4.1	0.00084	0.00019	0.00064
		October			24	0.11	7.0	7.9	0.032	3.2	0.022	0.23	0.0064	0.034	0.00017	0.0047	0.0079	0.000021	0.000048	0.022	0.0000073	4.1	0.0009	0.0002	0.00065
		November			24	0.11	7.0	7.9	0.032	3.2	0.022	0.23	0.0064	0.034	0.00017	0.0047	0.0079	0.000021	0.000049	0.022	0.0000073	4.1	0.0009	0.0002	0.00065
		December			24	0.11	7.0	7.9	0.033	3.2	0.022	0.23	0.0064	0.034	0.00017	0.0048	0.0079	0.000021	0.000049	0.022	0.0000073	4.1	0.00091	0.0002	0.00065
		January	2026		24</																				

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05					0.004		0.25							0.1			
CCME (CEQG-PAL (chronic)) ² (mg/L)				0.3	0.001					0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	0.007
Constituent				Fe	Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁸	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Mammoth Outlet	Closure, no mine contact water discharge	August	2022	0.18	0.00017	0.0018	2.1	0.032	0.000005	0.0012	0.0028	0.95	0.00012	0.000014	3.3	0.041	0.000011	0.000098	0.00039	0.00069	0.0028	
		September		0.15	0.00015	0.0016	1.8	0.026	0.000005	0.00098	0.0024	0.88	0.0001	0.000013	2.7	0.036	0.000011	0.000099	0.00031	0.00065	0.0028	
		October		0.14	0.00014	0.0016	1.8	0.025	0.0000051	0.00093	0.0023	0.87	0.0001	0.000013	2.6	0.036	0.000011	0.00010	0.00029	0.00065	0.0029	
		November		0.14	0.00014	0.0016	1.8	0.025	0.0000051	0.00093	0.0023	0.87	0.0001	0.000013	2.6	0.036	0.000011	0.00010	0.0003	0.00065	0.0029	
		December		0.14	0.00014	0.0016	1.8	0.025	0.0000051	0.00094	0.0024	0.87	0.0001	0.000013	2.6	0.036	0.000011	0.00010	0.0003	0.00065	0.0029	
		January	2023	0.14	0.00014	0.0016	1.8	0.025	0.0000051	0.00094	0.0024	0.87	0.0001	0.000013	2.6	0.036	0.000011	0.0001	0.0003	0.00065	0.0029	
		February		0.14	0.00014	0.0016	1.8	0.025	0.0000051	0.00094	0.0024	0.87	0.0001	0.000013	2.6	0.036	0.000011	0.0001	0.0003	0.00065	0.0029	
		March		0.14	0.00014	0.0016	1.8	0.025	0.0000051	0.00094	0.0024	0.88	0.0001	0.000013	2.6	0.036	0.000011	0.0001	0.0003	0.00065	0.0029	
		April		0.14	0.00014	0.0016	1.8	0.025	0.0000051	0.00094	0.0024	0.88	0.0001	0.000013	2.6	0.036	0.000011	0.0001	0.0003	0.00065	0.0029	
		May		0.14	0.00015	0.0016	1.8	0.025	0.0000051	0.00095	0.0024	0.88	0.0001	0.000013	2.6	0.036	0.000011	0.0001	0.0003	0.00065	0.0029	
		June		0.16	0.00017	0.0018	2.1	0.029	0.0000058	0.0011	0.0027	1.0	0.00012	0.000015	3.0	0.041	0.000012	0.00011	0.00034	0.00074	0.0033	
		July		0.12	0.00013	0.0015	1.7	0.021	0.0000051	0.00079	0.0021	0.84	0.000094	0.000013	2.3	0.033	0.000011	0.0001	0.00025	0.00063	0.0029	
		August		0.11	0.00013	0.0015	1.6	0.018	0.0000053	0.00068	0.002	0.83	0.000089	0.000013	2.0	0.032	0.000011	0.00011	0.00022	0.00063	0.0031	
		September		0.11	0.00013	0.0015	1.6	0.019	0.0000051	0.00071	0.002	0.81	0.000089	0.000012	2.1	0.032	0.000011	0.0001	0.00023	0.00061	0.0029	
		October		0.12	0.00013	0.0015	1.6	0.02	0.0000051	0.00076	0.002	0.82	0.000091	0.000013	2.2	0.033	0.000011	0.00010	0.00024	0.00062	0.0029	
		November		0.12	0.00013	0.0015	1.6	0.02	0.0000051	0.00076	0.0021	0.82	0.000091	0.000013	2.2	0.033	0.000011	0.00010	0.00024	0.00062	0.0029	
		December		0.12	0.00013	0.0015	1.6	0.02	0.0000051	0.00076	0.0021	0.82	0.000092	0.000013	2.2	0.033	0.000011	0.00010	0.00024	0.00062	0.0029	
		January	2024	0.12	0.00013	0.0015	1.6	0.02	0.0000051	0.00076	0.0021	0.82	0.000092	0.000013	2.2	0.033	0.000011	0.00010	0.00024	0.00062	0.0029	
		February		0.12	0.00013	0.0015	1.6	0.02	0.0000051	0.00077	0.0021	0.82	0.000092	0.000013	2.2	0.033	0.000011	0.0001	0.00024	0.00062	0.0029	
		March		0.12	0.00013	0.0015	1.6	0.02	0.0000051	0.00077	0.0021	0.82	0.000092	0.000013	2.2	0.033	0.000011	0.0001	0.00024	0.00062	0.0029	
		April		0.12	0.00013	0.0015	1.6	0.02	0.0000051	0.00077	0.0021	0.82	0.000092	0.000013	2.2	0.033	0.000011	0.0001	0.00024	0.00062	0.0029	
		May		0.12	0.00013	0.0015	1.6	0.02	0.0000051	0.00077	0.0021	0.82	0.000092	0.000013	2.2	0.033	0.000011	0.0001	0.00024	0.00062	0.0029	
		June		0.14	0.00015	0.0017	1.9	0.024	0.0000058	0.0009	0.0024	0.94	0.00011	0.000014	2.6	0.038	0.000012	0.00011	0.00029	0.00071	0.0033	
		July		0.1	0.00012	0.0014	1.5	0.018	0.0000051	0.00066	0.0019	0.79	0.000086	0.000012	2.0	0.031	0.000011	0.0001	0.00021	0.00061	0.0029	
		August		0.09	0.00012	0.0014	1.5	0.016	0.0000053	0.00057	0.0018	0.79	0.000083	0.000012	1.8	0.03	0.000011	0.00011	0.00018	0.00061	0.0031	
		September		0.093	0.00012	0.0014	1.5	0.016	0.0000051	0.00059	0.0018	0.77	0.000082	0.000012	1.8	0.03	0.000011	0.0001	0.00019	0.00059	0.0029	
		October		0.097	0.00012	0.0014	1.5	0.017	0.000005	0.00062	0.0018	0.76	0.000082	0.000012	1.9	0.03	0.00001	0.000098	0.0002	0.00058	0.0029	
		November		0.097	0.00012	0.0014	1.5	0.017	0.000005	0.00062	0.0018	0.76	0.000083	0.000012	1.9	0.03	0.00001	0.000098	0.0002	0.00059	0.0029	
		December		0.097	0.00012	0.0014	1.5	0.017	0.000005	0.00063	0.0018	0.77	0.000083	0.000012	1.9	0.03	0.00001	0.000098	0.0002	0.00059	0.0029	
		January	2025	0.097	0.00012	0.0014	1.5	0.017	0.000005	0.00063	0.0018	0.77	0.000083	0.000012	1.9	0.03	0.00001	0.000098	0.0002	0.00059	0.0029	
		February		0.097	0.00012	0.0014	1.5	0.017	0.000005	0.00063	0.0018	0.77	0.000083	0.000012	1.9	0.03	0.00001	0.000098	0.0002	0.00059	0.0029	
		March		0.098	0.00012	0.0014	1.5	0.017	0.000005	0.00063	0.0018	0.77	0.000083	0.000012	1.9	0.03	0.00001	0.000098	0.0002	0.00059	0.0029	
		April		0.098	0.00012	0.0014	1.5	0.017	0.000005	0.00063	0.0018	0.77	0.000083	0.000012	1.9	0.03	0.00001	0.000098	0.0002	0.00059	0.0029	
		May		0.098	0.00012	0.0014	1.5	0.017	0.000005	0.00063	0.0018	0.77	0.000083	0.000012	1.9	0.03	0.00001	0.000099	0.0002	0.00059	0.0029	
		June		0.12	0.00014	0.0016	1.7	0.02	0.0000057	0.00075	0.0021	0.89	0.000097	0.000014	2.2	0.035	0.000012	0.00011	0.00024	0.00068	0.0033	
		July		0.088	0.00011	0.0014	1.4	0.015	0.0000051	0.00056	0.0017	0.76	0.00008	0.000012	1.7	0.029	0.000011	0.0001	0.00018	0.00059	0.0029	
		August		0.077	0.00011	0.0014	1.4	0.013	0.0000053	0.00048	0.0016	0.76	0.000077	0.000012	1.6	0.029	0.000011	0.0001	0.00016	0.0006	0.0031	
		September		0.079	0.00011	0.0013	1.4	0.014	0.000005	0.0005	0.0016	0.74	0.000076	0.000012	1.6	0.028	0.00001	0.00010	0.00016	0.00057	0.0029	
		October		0.084	0.00011	0.0013	1.4	0.015	0.000005	0.00054	0.0017	0.74	0.000078	0.000012	1.7	0.028	0.00001	0.000099	0.00017	0.00057	0.0029	
		November		0.084	0.00011	0.0013	1.4	0.015	0.000005	0.00054	0.0017	0.74	0.000078	0.000012	1.7	0.028	0.00001	0.000099	0.00017	0.00058	0.0029	
		December		0.085	0.00011	0.0013	1.4	0.015	0.000005	0.00054	0.0017	0.74	0.000078	0.000012	1.7	0.028	0.00001	0.000099	0.00017	0.00058	0.0029	
		January	2026	0.085	0.00011	0.0013	1.4	0.015	0.000005	0.00054	0.0017	0.75	0.000078	0.000012	1.7	0.028	0.00001	0.000099	0.00017	0.00058	0.0029	
		February		0.085	0.00011	0.0013	1.4	0.015	0.000005	0.00054	0.0017	0.75	0.000078	0.000012	1.7	0.029	0.00001	0.000099	0.00017	0.00058	0.0029	
		March		0.085	0.00011	0.0013	1.4	0.015	0.000005	0.00054	0.0017	0.75	0.000078	0.000012	1.7	0.029	0.00001	0.000099	0.00017	0.00058	0.0029	
		April		0.085	0.00011	0.0014	1.4	0.015	0.000005	0.00054	0.0017	0.75	0.000078	0.000012	1.7	0.029	0.00001	0.000099	0.00017	0.00058	0.0029	
		May		0.085	0.00011	0.0014	1.4	0.015	0.000005	0.00054	0.0017	0.75	0.000078	0.000012	1.7	0.029	0.00001	0.00010	0.00017	0.00058	0.0029	
		June		0.10	0.00013	0.0015	1.6	0.017	0.0000057	0.00064	0.0019	0.85	0.00009	0.000013	2.0	0.033	0.000012	0.00011	0.0002	0.00066	0.0033	
		July		0.075	0.00011	0.0013	1.3	0.013	0.000005	0.00047	0.0015	0.73	0.000074	0.000012	1.5	0.027	0.00001	0.00010	0.00015	0.00057	0.0029	
		August		0.066	0.00011																	

Whale Tail Effluent Quality Criteria maximum average ^a (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1
CCME (CEQG-PAL (chronic)) ^b (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004			0.002	
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁸	Ca	Cr	Co	Cu ⁸
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Mammoth Outlet	Closure, controlled discharge from pit lake	July	2027	24	0.11	6.8	7.9	0.032	3.1	0.022	0.2	0.0066	0.033	0.00016	0.0052	0.0076	0.00002	0.000045	0.022	0.0000073	3.9	0.0009	0.0002	0.00063
		August		24	0.11	6.9	8.0	0.033	3.2	0.023	0.18	0.0068	0.032	0.00017	0.0054	0.0077	0.00002	0.000046	0.022	0.0000074	4.0	0.00089	0.0002	0.00064
		September		23	0.098	6.9	7.8	0.034	3.1	0.021	0.15	0.0066	0.029	0.00016	0.0052	0.0076	0.000021	0.000047	0.021	0.0000074	3.9	0.00082	0.0002	0.00063
		October		26	0.1	7.5	8.6	0.037	3.4	0.023	0.15	0.0072	0.031	0.00018	0.0057	0.0083	0.000023	0.000052	0.023	0.0000082	4.3	0.00088	0.00022	0.0007
		November		26	0.1	7.5	8.6	0.037	3.4	0.023	0.15	0.0073	0.031	0.00018	0.0057	0.0084	0.000023	0.000052	0.023	0.0000082	4.3	0.00088	0.00022	0.0007
		December		26	0.1	7.6	8.6	0.037	3.4	0.023	0.15	0.0073	0.031	0.00018	0.0057	0.0084	0.000023	0.000052	0.023	0.0000082	4.3	0.00089	0.00022	0.0007
		January	2028	26	0.1	7.6	8.6	0.038	3.4	0.023	0.15	0.0073	0.031	0.00018	0.0057	0.0084	0.000023	0.000052	0.023	0.0000082	4.3	0.00089	0.00022	0.0007
		February		26	0.1	7.6	8.6	0.038	3.4	0.023	0.15	0.0073	0.031	0.00018	0.0057	0.0084	0.000023	0.000052	0.023	0.0000082	4.3	0.00089	0.00022	0.0007
		March		26	0.1	7.6	8.6	0.038	3.4	0.023	0.15	0.0073	0.031	0.00018	0.0057	0.0084	0.000023	0.000052	0.023	0.0000082	4.3	0.00089	0.00022	0.0007
		April		26	0.1	7.6	8.7	0.038	3.4	0.024	0.15	0.0073	0.031	0.00018	0.0057	0.0084	0.000023	0.000052	0.024	0.0000082	4.3	0.00089	0.00022	0.0007
		May		26	0.1	7.6	8.7	0.038	3.4	0.024	0.15	0.0073	0.031	0.00018	0.0057	0.0084	0.000023	0.000052	0.024	0.0000082	4.3	0.00089	0.00022	0.0007
		June		26	0.096	7.8	8.8	0.039	3.5	0.023	0.12	0.0074	0.03	0.00019	0.0058	0.0086	0.000024	0.000055	0.024	0.0000085	4.4	0.00088	0.00022	0.00073
		July		20	0.067	6.1	6.8	0.031	2.7	0.018	0.071	0.0058	0.022	0.00014	0.0045	0.0067	0.000019	0.000043	0.018	0.0000067	3.4	0.00067	0.00017	0.00057
		August		21	0.071	6.3	6.9	0.032	2.7	0.018	0.065	0.006	0.023	0.00015	0.0047	0.0068	0.000019	0.000045	0.019	0.0000069	3.5	0.00068	0.00018	0.00059
		September		20	0.067	6.3	6.8	0.033	2.7	0.018	0.056	0.0059	0.022	0.00015	0.0045	0.0068	0.00002	0.000046	0.018	0.0000069	3.5	0.00066	0.00018	0.00059
		October		23	0.073	6.9	7.5	0.036	3.0	0.019	0.058	0.0065	0.024	0.00017	0.005	0.0075	0.000022	0.000051	0.02	0.0000076	3.8	0.00073	0.00019	0.00066
		November		23	0.073	7.0	7.5	0.036	3.0	0.019	0.058	0.0065	0.024	0.00017	0.005	0.0075	0.000022	0.000051	0.02	0.0000076	3.8	0.00073	0.00019	0.00066
		December		23	0.073	7.0	7.5	0.036	3.0	0.019	0.058	0.0065	0.024	0.00017	0.005	0.0076	0.000022	0.000051	0.02	0.0000076	3.8	0.00073	0.00019	0.00066
		January	2029	23	0.073	7.0	7.5	0.036	3.0	0.019	0.058	0.0065	0.024	0.00017	0.005	0.0076	0.000022	0.000051	0.02	0.0000076	3.8	0.00073	0.00019	0.00066
		February		23	0.073	7.0	7.5	0.036	3.0	0.019	0.059	0.0065	0.024	0.00017	0.005	0.0076	0.000022	0.000051	0.02	0.0000077	3.8	0.00073	0.00019	0.00066
		March		23	0.073	7.0	7.5	0.037	3.0	0.019	0.059	0.0065	0.024	0.00017	0.005	0.0076	0.000022	0.000051	0.02	0.0000077	3.8	0.00073	0.00019	0.00066
		April		23	0.073	7.0	7.6	0.037	3.0	0.019	0.059	0.0065	0.024	0.00017	0.005	0.0076	0.000022	0.000051	0.02	0.0000077	3.8	0.00073	0.00019	0.00066
		May		23	0.073	7.0	7.6	0.037	3.0	0.02	0.059	0.0065	0.024	0.00017	0.005	0.0076	0.000022	0.000051	0.02	0.0000077	3.9	0.00073	0.00019	0.00066
		June		23	0.069	7.3	7.7	0.038	3.1	0.02	0.053	0.0067	0.025	0.00017	0.005	0.0079	0.000023	0.000054	0.021	0.000008	4.0	0.00075	0.0002	0.00069
		July		18	0.051	5.7	6.0	0.03	2.4	0.015	0.035	0.0052	0.02	0.00014	0.004	0.0062	0.000019	0.000043	0.016	0.0000063	3.1	0.00061	0.00016	0.00055
		August		19	0.056	5.9	6.1	0.032	2.5	0.016	0.034	0.0054	0.02	0.00014	0.0041	0.0063	0.000019	0.000045	0.017	0.0000065	3.2	0.00063	0.00016	0.00057
		September		19	0.054	6.0	6.1	0.032	2.5	0.015	0.031	0.0053	0.02	0.00014	0.0039	0.0064	0.00002	0.000046	0.016	0.0000065	3.2	0.00062	0.00016	0.00058
		October		21	0.059	6.6	6.7	0.035	2.8	0.017	0.033	0.0058	0.022	0.00016	0.0043	0.0071	0.000022	0.000051	0.018	0.0000072	3.5	0.00069	0.00018	0.00064
		November		21	0.059	6.6	6.7	0.035	2.8	0.017	0.033	0.0058	0.022	0.00016	0.0043	0.0071	0.000022	0.000051	0.018	0.0000073	3.6	0.00069	0.00018	0.00064
		December		21	0.059	6.6	6.7	0.035	2.8	0.017	0.033	0.0058	0.022	0.00016	0.0043	0.0071	0.000022	0.000051	0.018	0.0000073	3.6	0.00069	0.00018	0.00064
		January	2030	21	0.059	6.6	6.7	0.036	2.8	0.017	0.033	0.0058	0.022	0.00016	0.0043	0.0071	0.000022	0.000051	0.018	0.0000073	3.6	0.00069	0.00018	0.00065
		February		21	0.059	6.6	6.7	0.036	2.8	0.017	0.033	0.0058	0.022	0.00016	0.0044	0.0071	0.000022	0.000051	0.018	0.0000073	3.6	0.00069	0.00018	0.00065
		March		21	0.059	6.6	6.7	0.036	2.8	0.017	0.033	0.0059	0.022	0.00016	0.0044	0.0071	0.000022	0.000051	0.018	0.0000073	3.6	0.00069	0.00018	0.00065
		April		21	0.059	6.6	6.7	0.036	2.8	0.017	0.033	0.0059	0.022	0.00016	0.0044	0.0071	0.000022	0.000051	0.018	0.0000073	3.6	0.00069	0.00018	0.00065
		May		21	0.059	6.7	6.7	0.036	2.8	0.017	0.033	0.0059	0.022	0.00016	0.0044	0.0071	0.000022	0.000052	0.018	0.0000073	3.6	0.00069	0.00018	0.00065
		June		21	0.057	7.0	6.9	0.037	2.9	0.017	0.032	0.006	0.023	0.00016	0.0044	0.0074	0.000023	0.000055	0.019	0.0000076	3.7	0.00072	0.00019	0.00068
		July		17	0.043	5.5	5.4	0.03	2.2	0.013	0.023	0.0047	0.019	0.00013	0.0035	0.0058	0.000019	0.000044	0.015	0.000006	2.9	0.00059	0.00015	0.00055
		August		17	0.047	5.7	5.5	0.031	2.3	0.014	0.023	0.0049	0.02	0.00013	0.0036	0.006	0.000019	0.000045	0.015	0.0000062	3.0	0.00062	0.00016	0.00056
		September		17	0.046	5.7	5.5	0.031	2.3	0.014	0.022	0.0048	0.02	0.00014	0.0035	0.0061	0.00002	0.000047	0.015	0.0000063	3.0	0.00061	0.00016	0.00057
		October		19	0.051	6.3	6.0	0.035	2.6	0.015	0.024	0.0053	0.022	0.00015	0.0038	0.0067	0.000022	0.000052	0.017	0.0000069	3.4	0.00067	0.00017	0.00064
		November		19	0.051	6.4	6.0	0.035	2.6	0.015	0.024	0.0053	0.022	0.00015	0.0038	0.0067	0.000022	0.000052	0.017	0.000007	3.4	0.00068	0.00017	0.00064
		December		19	0.051	6.4	6.0	0.035	2.6	0.015	0.024	0.0053	0.022	0.00015	0.0038	0.0068	0.000022	0.000052	0.017	0.000007	3.4	0.00068	0.00017	0.00064
		January	2031	19	0.051	6.4	6.1	0.035	2.6	0.015	0.024	0.0053	0.022	0.00015	0.0038	0.0068	0.000022	0.000052	0.017	0.000007	3.4	0.00068	0.00017	0.00064
		February		19	0.051	6.4	6.1	0.035	2.6	0.015</														

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05				0.004		0.25										0.1
CCME (CEQG-PAL (chronic)) ² (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	0.007
Constituent				Fe	Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁸	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Mammoth Outlet	Closure, controlled discharge from pit lake	July	2027	0.085	0.00011	0.0013	1.4	0.016	0.000047	0.0006	0.0016	0.71	0.000076	0.000011	1.8	0.028	0.0000098	0.000093	0.0002	0.00055	0.0025
		August		0.084	0.00011	0.0013	1.4	0.016	0.000048	0.00062	0.0016	0.72	0.000077	0.000011	1.8	0.028	0.0000099	0.000095	0.00021	0.00056	0.0024
		September		0.079	0.0001	0.0013	1.4	0.016	0.000049	0.00061	0.0015	0.71	0.000076	0.000011	1.7	0.028	0.000010	0.000097	0.00021	0.00055	0.0023
		October		0.085	0.00011	0.0015	1.5	0.018	0.000054	0.00067	0.0017	0.78	0.000083	0.000012	1.9	0.03	0.000011	0.00011	0.00023	0.00061	0.0024
		November		0.086	0.00011	0.0015	1.5	0.018	0.000054	0.00067	0.0017	0.78	0.000083	0.000012	1.9	0.03	0.000011	0.00011	0.00023	0.00061	0.0024
		December		0.086	0.00011	0.0015	1.5	0.018	0.000054	0.00067	0.0017	0.78	0.000083	0.000012	1.9	0.03	0.000011	0.00011	0.00023	0.00061	0.0025
		January	2028	0.086	0.00011	0.0015	1.5	0.018	0.000054	0.00067	0.0017	0.79	0.000083	0.000012	1.9	0.03	0.000011	0.00011	0.00024	0.00061	0.0025
		February		0.086	0.00011	0.0015	1.5	0.018	0.000054	0.00067	0.0017	0.79	0.000083	0.000012	1.9	0.03	0.000011	0.00011	0.00024	0.00061	0.0025
		March		0.086	0.00011	0.0015	1.5	0.018	0.000054	0.00067	0.0017	0.79	0.000083	0.000012	1.9	0.03	0.000011	0.00011	0.00024	0.00061	0.0025
		April		0.086	0.00011	0.0015	1.5	0.018	0.000054	0.00067	0.0017	0.79	0.000084	0.000012	1.9	0.03	0.000011	0.00011	0.00024	0.00062	0.0025
		May		0.086	0.00011	0.0015	1.5	0.018	0.000055	0.00067	0.0017	0.79	0.000084	0.000012	1.9	0.03	0.000011	0.00011	0.00024	0.00062	0.0025
		June		0.086	0.00012	0.0015	1.6	0.018	0.000057	0.00068	0.0017	0.81	0.000085	0.000013	2.0	0.031	0.000012	0.00011	0.00024	0.00064	0.0025
		July		0.066	0.000089	0.0012	1.2	0.014	0.000045	0.00054	0.0013	0.62	0.000066	0.0000098	1.5	0.024	0.0000091	0.000089	0.00019	0.0005	0.0018
		August		0.068	0.000091	0.0012	1.3	0.015	0.000047	0.00055	0.0013	0.64	0.000068	0.00001	1.6	0.025	0.0000094	0.000092	0.0002	0.00052	0.0018
		September		0.066	0.000091	0.0012	1.3	0.014	0.000048	0.00053	0.0013	0.65	0.000068	0.00001	1.5	0.024	0.0000096	0.000095	0.0002	0.00053	0.0018
		October		0.073	0.00010	0.0014	1.4	0.016	0.000053	0.00059	0.0014	0.71	0.000075	0.000011	1.7	0.027	0.000011	0.00011	0.00022	0.00058	0.002
		November		0.073	0.00010	0.0014	1.4	0.016	0.000053	0.00059	0.0014	0.71	0.000075	0.000011	1.7	0.027	0.000011	0.00011	0.00022	0.00059	0.002
		December		0.073	0.0001	0.0014	1.4	0.016	0.000053	0.00059	0.0014	0.71	0.000075	0.000011	1.7	0.027	0.000011	0.00011	0.00022	0.00059	0.002
		January	2029	0.073	0.0001	0.0014	1.4	0.016	0.000053	0.00059	0.0014	0.71	0.000075	0.000011	1.7	0.027	0.000011	0.00011	0.00022	0.00059	0.002
		February		0.074	0.0001	0.0014	1.4	0.016	0.000053	0.00059	0.0014	0.72	0.000075	0.000011	1.7	0.027	0.000011	0.00011	0.00022	0.00059	0.002
		March		0.074	0.0001	0.0014	1.4	0.016	0.000053	0.00059	0.0014	0.72	0.000076	0.000011	1.7	0.027	0.000011	0.00011	0.00022	0.00059	0.002
		April		0.074	0.0001	0.0014	1.4	0.016	0.000053	0.00059	0.0014	0.72	0.000076	0.000011	1.7	0.027	0.000011	0.00011	0.00022	0.00059	0.002
		May		0.074	0.0001	0.0014	1.4	0.016	0.000053	0.00059	0.0014	0.72	0.000076	0.000011	1.7	0.027	0.000011	0.00011	0.00022	0.00059	0.002
		June		0.076	0.0001	0.0014	1.4	0.016	0.000056	0.00059	0.0015	0.74	0.000078	0.000012	1.7	0.028	0.000011	0.00011	0.00022	0.00062	0.0021
		July		0.062	0.000082	0.0011	1.1	0.012	0.000045	0.00046	0.0012	0.58	0.000062	0.0000096	1.4	0.022	0.0000091	0.000089	0.00017	0.0005	0.0016
		August		0.064	0.000084	0.0012	1.2	0.013	0.000047	0.00047	0.0012	0.6	0.000064	0.0000099	1.4	0.022	0.0000094	0.000093	0.00018	0.00051	0.0016
		September		0.063	0.000085	0.0012	1.2	0.012	0.000048	0.00046	0.0012	0.61	0.000064	0.00001	1.4	0.023	0.0000096	0.000095	0.00018	0.00052	0.0017
		October		0.07	0.000094	0.0013	1.3	0.013	0.000053	0.0005	0.0013	0.67	0.000071	0.000011	1.5	0.025	0.000011	0.00011	0.00019	0.00058	0.0018
		November		0.07	0.000094	0.0013	1.3	0.013	0.000053	0.0005	0.0013	0.67	0.000071	0.000011	1.5	0.025	0.000011	0.00011	0.00019	0.00058	0.0018
		December		0.07	0.000094	0.0013	1.3	0.013	0.000053	0.0005	0.0013	0.68	0.000071	0.000011	1.5	0.025	0.000011	0.00011	0.00019	0.00058	0.0018
		January	2030	0.07	0.000095	0.0013	1.3	0.013	0.000053	0.0005	0.0013	0.68	0.000071	0.000011	1.5	0.025	0.000011	0.00011	0.00019	0.00058	0.0018
		February		0.07	0.000095	0.0013	1.3	0.013	0.000053	0.0005	0.0013	0.68	0.000071	0.000011	1.5	0.025	0.000011	0.00011	0.00019	0.00059	0.0018
		March		0.071	0.000095	0.0013	1.3	0.013	0.000053	0.0005	0.0013	0.68	0.000072	0.000011	1.5	0.025	0.000011	0.00011	0.00019	0.00059	0.0018
		April		0.071	0.000095	0.0013	1.3	0.013	0.000054	0.0005	0.0013	0.68	0.000072	0.000011	1.5	0.025	0.000011	0.00011	0.00019	0.00059	0.0018
		May		0.071	0.000095	0.0013	1.3	0.013	0.000054	0.00051	0.0013	0.68	0.000072	0.000011	1.5	0.025	0.000011	0.00011	0.0002	0.00059	0.0018
		June		0.074	0.000099	0.0014	1.4	0.014	0.000057	0.0005	0.0014	0.71	0.000075	0.000012	1.5	0.026	0.000011	0.00011	0.0002	0.00062	0.002
		July		0.06	0.000079	0.0011	1.1	0.011	0.000045	0.00039	0.0011	0.55	0.000059	0.0000096	1.2	0.02	0.0000091	0.00009	0.00015	0.0005	0.0015
		August		0.063	0.000081	0.0011	1.1	0.011	0.000047	0.0004	0.0011	0.57	0.000061	0.0000099	1.2	0.021	0.0000095	0.000094	0.00016	0.00052	0.0015
		September		0.062	0.000082	0.0012	1.1	0.01	0.000048	0.00039	0.0011	0.58	0.000062	0.00001	1.2	0.021	0.0000097	0.000096	0.00015	0.00053	0.0016
		October		0.069	0.000091	0.0013	1.2	0.011	0.000054	0.00042	0.0013	0.65	0.000068	0.000011	1.3	0.023	0.000011	0.00011	0.00017	0.00059	0.0018
		November		0.069	0.000091	0.0013	1.2	0.011	0.000054	0.00043	0.0013	0.65	0.000069	0.000011	1.3	0.023	0.000011	0.00011	0.00017	0.00059	0.0018
		December		0.069	0.000091	0.0013	1.2	0.011	0.000054	0.00043	0.0013	0.65	0.000069	0.000011	1.3	0.023	0.000011	0.00011	0.00017	0.00059	0.0018
		January	2031	0.07	0.000091	0.0013	1.2	0.011	0.000054	0.00043	0.0013	0.65	0.000069	0.000011	1.3	0.023	0.000011	0.00011	0.00017	0.00059	0.0018
		February		0.07	0.000091	0.0013	1.2	0.012	0.000054	0.00043	0.0013	0.65	0.000069	0.000011	1.3	0.023	0.000011	0.00011	0.00017	0.00059	0.0018
		March		0.07	0.000091	0.0013	1.2	0.012	0.000054	0.00043	0.0013	0.65	0.000069	0.000011	1.3	0.023	0.000011	0.00011	0.00017	0.00059	0.0018
		April		0.07	0.000092	0.0013	1.2	0.012	0.000054	0.00043	0.0013	0.65	0.000069	0.000011	1.3	0.023	0.000011	0.00011	0.00017	0.00059	0.0018
		May		0.07	0.000092	0.0013	1.2	0.012	0.000054	0.00043	0.0013	0.65	0.000069	0.000011	1.3	0.023	0.000011	0.00011	0.00017	0.00059	0.0018
		June		0.073	0.000096	0.0014	1.3	0.012	0.000057	0.00043	0.0013	0.68	0.000072	0.000012	1.4	0.024	0.000012	0.00011	0.00017	0.00062	0.0019
		July		0.06	0.000076	0.0011	1.0	0.0091	0.000046	0.00033	0.0011	0.53	0.000057	0.0000097	1.1	0.019	0.0000092	0.000091	0.00013	0.0005	0.0015
August	0.063	0.000079		0.0011	1																

Whale Tail Effluent Quality Criteria maximum average ^a (mg/L)				1400						16		2.93	0.3	0.5		0.1					0.002		0.02		0.1
CCME (CEQG-PAL (chronic)) ^b (mg/L)							120	0.12					0.01	0.1		0.025				1.5	0.00004				0.002
		Constituent		TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁸	Ca	Cr	Co	Cu ⁶	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Mammoth Outlet	Closure, controlled discharge from pit lake	January	2032	18	0.045	6.2	5.5	0.034	2.5	0.013	0.02	0.0049	0.022	0.00015	0.0034	0.0065	0.000022	0.000053	0.016	0.000067	3.2	0.00067	0.00017	0.00064	
		February		18	0.045	6.2	5.5	0.034	2.5	0.013	0.02	0.0049	0.022	0.00015	0.0034	0.0065	0.000022	0.000053	0.016	0.000067	3.2	0.00067	0.00017	0.00064	
		March		18	0.045	6.2	5.5	0.034	2.5	0.013	0.02	0.0049	0.022	0.00015	0.0034	0.0065	0.000022	0.000053	0.016	0.000067	3.2	0.00067	0.00017	0.00064	
		April		18	0.045	6.2	5.5	0.034	2.5	0.013	0.02	0.0049	0.022	0.00015	0.0034	0.0065	0.000022	0.000053	0.016	0.000068	3.2	0.00068	0.00017	0.00064	
		May		18	0.045	6.2	5.5	0.034	2.5	0.013	0.02	0.0049	0.022	0.00015	0.0034	0.0065	0.000022	0.000053	0.016	0.000068	3.2	0.00068	0.00017	0.00064	
		June		19	0.043	6.5	5.7	0.036	2.6	0.014	0.02	0.0051	0.023	0.00015	0.0034	0.0068	0.000023	0.000056	0.016	0.000071	3.4	0.00071	0.00018	0.00067	
		July		15	0.032	5.2	4.5	0.029	2.0	0.011	0.016	0.004	0.019	0.00012	0.0027	0.0054	0.000019	0.000045	0.013	0.000056	2.6	0.00058	0.00014	0.00054	
		August		15	0.037	5.3	4.6	0.03	2.1	0.011	0.016	0.0041	0.02	0.00013	0.0028	0.0055	0.000019	0.000046	0.013	0.000058	2.7	0.00061	0.00015	0.00056	
		September		15	0.037	5.4	4.6	0.03	2.1	0.011	0.015	0.0041	0.019	0.00013	0.0027	0.0057	0.00002	0.000047	0.013	0.000059	2.8	0.0006	0.00015	0.00057	
		October		17	0.04	6.0	5.1	0.033	2.3	0.012	0.017	0.0045	0.022	0.00014	0.003	0.0063	0.000022	0.000053	0.015	0.000065	3.1	0.00067	0.00016	0.00063	
		November		17	0.04	6.0	5.1	0.033	2.3	0.012	0.017	0.0045	0.022	0.00014	0.003	0.0063	0.000022	0.000053	0.015	0.000065	3.1	0.00067	0.00016	0.00063	
		December		17	0.04	6.0	5.1	0.033	2.3	0.012	0.017	0.0045	0.022	0.00014	0.003	0.0063	0.000022	0.000053	0.015	0.000065	3.1	0.00067	0.00016	0.00063	
		January	2033	17	0.04	6.0	5.1	0.034	2.3	0.012	0.017	0.0046	0.022	0.00014	0.003	0.0063	0.000022	0.000053	0.015	0.000065	3.1	0.00067	0.00016	0.00063	
		February		17	0.04	6.0	5.1	0.034	2.3	0.012	0.017	0.0046	0.022	0.00014	0.003	0.0063	0.000022	0.000053	0.015	0.000065	3.1	0.00067	0.00016	0.00063	
		March		17	0.04	6.0	5.1	0.034	2.3	0.012	0.017	0.0046	0.022	0.00014	0.003	0.0063	0.000022	0.000053	0.015	0.000066	3.1	0.00067	0.00016	0.00063	
		April		17	0.04	6.0	5.1	0.034	2.4	0.012	0.017	0.0046	0.022	0.00014	0.003	0.0063	0.000022	0.000053	0.015	0.000066	3.1	0.00067	0.00016	0.00064	
		May		17	0.04	6.0	5.1	0.034	2.4	0.012	0.017	0.0046	0.022	0.00014	0.003	0.0063	0.000022	0.000053	0.015	0.000066	3.1	0.00067	0.00016	0.00064	
		June		18	0.038	6.3	5.3	0.035	2.5	0.013	0.017	0.0047	0.023	0.00015	0.0031	0.0066	0.000024	0.000057	0.016	0.000069	3.3	0.0007	0.00017	0.00067	
		July		14	0.029	5.0	4.1	0.028	1.9	0.0099	0.014	0.0037	0.019	0.00012	0.0024	0.0052	0.000019	0.000045	0.012	0.000055	2.6	0.00058	0.00014	0.00054	
		August		14	0.033	5.2	4.2	0.029	2.0	0.01	0.014	0.0039	0.02	0.00012	0.0025	0.0054	0.000019	0.000047	0.013	0.000057	2.6	0.00061	0.00014	0.00056	
		September		15	0.033	5.3	4.3	0.03	2.0	0.01	0.014	0.0038	0.019	0.00013	0.0025	0.0055	0.00002	0.000048	0.013	0.000057	2.7	0.0006	0.00014	0.00057	
		October		16	0.036	5.9	4.7	0.033	2.2	0.011	0.015	0.0043	0.022	0.00014	0.0027	0.0061	0.000022	0.000053	0.014	0.000064	3.0	0.00067	0.00016	0.00063	
		November		16	0.036	5.9	4.7	0.033	2.2	0.011	0.015	0.0043	0.022	0.00014	0.0027	0.0061	0.000022	0.000053	0.014	0.000064	3.0	0.00067	0.00016	0.00063	
		December		16	0.036	5.9	4.7	0.033	2.2	0.011	0.015	0.0043	0.022	0.00014	0.0027	0.0061	0.000022	0.000053	0.014	0.000064	3.0	0.00067	0.00016	0.00063	
		January	2034	16	0.036	5.9	4.7	0.033	2.3	0.011	0.015	0.0043	0.022	0.00014	0.0027	0.0061	0.000022	0.000053	0.014	0.000064	3.0	0.00067	0.00016	0.00063	
		February		16	0.036	5.9	4.7	0.033	2.3	0.011	0.015	0.0043	0.022	0.00014	0.0027	0.0061	0.000022	0.000053	0.014	0.000064	3.0	0.00067	0.00016	0.00063	
		March		16	0.036	5.9	4.7	0.033	2.3	0.011	0.015	0.0043	0.022	0.00014	0.0027	0.0061	0.000022	0.000054	0.014	0.000064	3.0	0.00067	0.00016	0.00063	
		April		16	0.036	5.9	4.7	0.033	2.3	0.011	0.015	0.0043	0.022	0.00014	0.0028	0.0061	0.000022	0.000054	0.014	0.000064	3.0	0.00067	0.00016	0.00063	
		May		16	0.036	5.9	4.7	0.033	2.3	0.011	0.015	0.0043	0.022	0.00014	0.0028	0.0061	0.000022	0.000054	0.014	0.000064	3.0	0.00067	0.00016	0.00063	
		June		17	0.034	6.2	4.9	0.035	2.4	0.012	0.015	0.0045	0.023	0.00015	0.0028	0.0065	0.000024	0.000057	0.015	0.000067	3.2	0.0007	0.00017	0.00067	
		July		13	0.026	4.9	3.8	0.028	1.9	0.0091	0.012	0.0035	0.019	0.00012	0.0022	0.0051	0.000019	0.000046	0.012	0.000054	2.5	0.00058	0.00014	0.00054	
		August		14	0.03	5.1	3.9	0.029	1.9	0.0093	0.012	0.0036	0.02	0.00012	0.0023	0.0052	0.00002	0.000047	0.012	0.000055	2.5	0.00061	0.00014	0.00055	
		September		14	0.03	5.2	4.0	0.029	2.0	0.0093	0.012	0.0036	0.019	0.00012	0.0023	0.0054	0.00002	0.000048	0.012	0.000056	2.6	0.0006	0.00014	0.00056	
		October		16	0.033	5.8	4.4	0.033	2.2	0.01	0.013	0.004	0.022	0.00014	0.0025	0.0059	0.000022	0.000054	0.014	0.000062	2.9	0.00067	0.00016	0.00063	
		November		16	0.033	5.8	4.4	0.033	2.2	0.01	0.013	0.004	0.022	0.00014	0.0025	0.006	0.000022	0.000054	0.014	0.000062	2.9	0.00067	0.00016	0.00063	
		December		16	0.033	5.8	4.4	0.033	2.2	0.01	0.013	0.004	0.022	0.00014	0.0025	0.006	0.000022	0.000054	0.014	0.000062	2.9	0.00067	0.00016	0.00063	
		January	2035	16	0.033	5.8	4.4	0.033	2.2	0.01	0.013	0.004	0.022	0.00014	0.0025	0.006	0.000022	0.000054	0.014	0.000062	2.9	0.00067	0.00016	0.00063	
		February		16	0.033	5.8	4.4	0.033	2.2	0.01	0.013	0.004	0.022	0.00014	0.0025	0.006	0.000022	0.000054	0.014	0.000063	2.9	0.00067	0.00016	0.00063	
		March		16	0.033	5.8	4.4	0.033	2.2	0.01	0.013	0.004	0.022	0.00014	0.0025	0.006	0.000022	0.000054	0.014	0.000063	2.9	0.00067	0.00016	0.00063	
		April		16	0.033	5.8	4.4	0.033	2.2	0.01	0.013	0.0041	0.022	0.00014	0.0025	0.006	0.000022	0.000054	0.014	0.000063	2.9	0.00067	0.00016	0.00063	
		May		16	0.033	5.8	4.4	0.033	2.2	0.01	0.013	0.0041	0.022	0.00014	0.0025	0.006	0.000022	0.000054	0.014	0.000063	2.9	0.00067	0.00016	0.00063	
		June		16	0.031	6.1	4.6	0.035	2.3	0.011	0.014	0.0042	0.023	0.00014	0.0026	0.0063	0.000024	0.000057	0.014	0.000066	3				

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05					0.004		0.25									0.1
CCME (CEQG-PAL (chronic)) ² (mg/L)				0.3	0.001					0.000026	0.073	0.025		0.001	0.00025		0.0008		0.015	0.12	0.007
Constituent				Fe	Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁸	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Mammoth Outlet	Closure, controlled discharge from pit lake	January	2032	0.069	0.000089	0.0013	1.2	0.0099	0.0000054	0.00036	0.0012	0.63	0.000067	0.000011	1.2	0.022	0.000011	0.00011	0.00015	0.00059	0.0018
		February		0.069	0.000089	0.0013	1.2	0.0099	0.0000054	0.00036	0.0012	0.63	0.000067	0.000011	1.2	0.022	0.000011	0.00011	0.00015	0.00059	0.0018
		March		0.07	0.000089	0.0013	1.2	0.0099	0.0000054	0.00036	0.0012	0.63	0.000067	0.000011	1.2	0.022	0.000011	0.00011	0.00015	0.00059	0.0018
		April		0.07	0.000089	0.0013	1.2	0.0099	0.0000054	0.00036	0.0012	0.63	0.000067	0.000011	1.2	0.022	0.000011	0.00011	0.00015	0.00059	0.0018
		May		0.07	0.000089	0.0013	1.2	0.010	0.0000054	0.00036	0.0012	0.63	0.000067	0.000011	1.2	0.022	0.000011	0.00011	0.00015	0.00059	0.0018
		June		0.073	0.000094	0.0013	1.2	0.01	0.0000058	0.00036	0.0013	0.66	0.00007	0.000012	1.3	0.023	0.000012	0.00011	0.00015	0.00063	0.0019
		July		0.06	0.000075	0.0011	0.96	0.0079	0.0000046	0.00028	0.001	0.52	0.000056	0.0000097	0.99	0.018	0.0000093	0.000092	0.00012	0.0005	0.0015
		August		0.063	0.000077	0.0011	0.99	0.008	0.0000048	0.00029	0.0011	0.54	0.000058	0.00001	1.0	0.019	0.0000097	0.000095	0.00012	0.00052	0.0015
		September		0.062	0.000078	0.0011	1.0	0.0078	0.0000049	0.00028	0.0011	0.55	0.000058	0.00001	1.0	0.019	0.0000099	0.000098	0.00012	0.00053	0.0016
		October		0.069	0.000087	0.0012	1.1	0.0086	0.0000054	0.00031	0.0012	0.61	0.000065	0.000011	1.1	0.021	0.000011	0.00011	0.00013	0.00059	0.0018
		November		0.069	0.000087	0.0012	1.1	0.0086	0.0000054	0.00031	0.0012	0.61	0.000065	0.000011	1.1	0.021	0.000011	0.00011	0.00013	0.00059	0.0018
		December		0.069	0.000087	0.0012	1.1	0.0086	0.0000055	0.00031	0.0012	0.61	0.000065	0.000011	1.1	0.021	0.000011	0.00011	0.00013	0.00059	0.0018
		January	2033	0.069	0.000087	0.0012	1.1	0.0086	0.0000055	0.00031	0.0012	0.61	0.000065	0.000011	1.1	0.021	0.000011	0.00011	0.00013	0.0006	0.0018
		February		0.069	0.000087	0.0012	1.1	0.0086	0.0000055	0.00031	0.0012	0.61	0.000065	0.000011	1.1	0.021	0.000011	0.00011	0.00013	0.0006	0.0018
		March		0.069	0.000087	0.0012	1.1	0.0086	0.0000055	0.00031	0.0012	0.61	0.000065	0.000011	1.1	0.021	0.000011	0.00011	0.00013	0.0006	0.0018
		April		0.07	0.000087	0.0012	1.1	0.0087	0.0000055	0.00031	0.0012	0.61	0.000065	0.000011	1.1	0.021	0.000011	0.00011	0.00013	0.0006	0.0018
		May		0.07	0.000087	0.0012	1.1	0.0087	0.0000055	0.00031	0.0012	0.61	0.000065	0.000012	1.1	0.021	0.000011	0.00011	0.00013	0.0006	0.0018
		June		0.073	0.000092	0.0013	1.2	0.0088	0.0000058	0.00031	0.0013	0.64	0.000068	0.000012	1.2	0.022	0.000012	0.00012	0.00013	0.00063	0.0019
		July		0.06	0.000073	0.001	0.93	0.0069	0.0000046	0.00024	0.001	0.51	0.000054	0.0000098	0.91	0.017	0.0000094	0.000093	0.0001	0.00051	0.0015
		August		0.063	0.000075	0.0011	0.95	0.007	0.0000048	0.00025	0.001	0.53	0.000056	0.00001	0.93	0.018	0.0000097	0.000096	0.00011	0.00053	0.0015
		September		0.062	0.000077	0.0011	0.97	0.0069	0.0000049	0.00024	0.0011	0.54	0.000057	0.00001	0.92	0.018	0.0000099	0.000098	0.00011	0.00054	0.0016
		October		0.069	0.000085	0.0012	1.1	0.0075	0.0000055	0.00027	0.0012	0.6	0.000063	0.000011	1.0	0.02	0.000011	0.00011	0.00012	0.0006	0.0017
		November		0.069	0.000085	0.0012	1.1	0.0075	0.0000055	0.00027	0.0012	0.6	0.000064	0.000011	1.0	0.02	0.000011	0.00011	0.00012	0.0006	0.0017
		December		0.069	0.000085	0.0012	1.1	0.0076	0.0000055	0.00027	0.0012	0.6	0.000064	0.000011	1.0	0.02	0.000011	0.00011	0.00012	0.0006	0.0017
		January	2034	0.069	0.000085	0.0012	1.1	0.0076	0.0000055	0.00027	0.0012	0.6	0.000064	0.000012	1.0	0.02	0.000011	0.00011	0.00012	0.0006	0.0017
		February		0.069	0.000086	0.0012	1.1	0.0076	0.0000055	0.00027	0.0012	0.6	0.000064	0.000012	1.0	0.02	0.000011	0.00011	0.00012	0.0006	0.0017
		March		0.069	0.000086	0.0012	1.1	0.0076	0.0000055	0.00027	0.0012	0.6	0.000064	0.000012	1.0	0.02	0.000011	0.00011	0.00012	0.0006	0.0017
		April		0.07	0.000086	0.0012	1.1	0.0076	0.0000055	0.00027	0.0012	0.6	0.000064	0.000012	1.0	0.02	0.000011	0.00011	0.00012	0.0006	0.0018
		May		0.07	0.000086	0.0012	1.1	0.0076	0.0000055	0.00027	0.0012	0.6	0.000064	0.000012	1.0	0.02	0.000011	0.00011	0.00012	0.0006	0.0018
		June		0.073	0.00009	0.0013	1.1	0.0077	0.0000058	0.00027	0.0012	0.63	0.000067	0.000012	1.1	0.021	0.000012	0.00012	0.00012	0.00063	0.0019
		July		0.06	0.000072	0.001	0.9	0.006	0.0000047	0.00021	0.00099	0.5	0.000053	0.0000098	0.84	0.017	0.0000095	0.000093	0.000094	0.00051	0.0014
		August		0.063	0.000074	0.0011	0.92	0.0062	0.0000048	0.00022	0.001	0.51	0.000055	0.00001	0.86	0.017	0.0000098	0.000097	0.000099	0.00053	0.0015
		September		0.062	0.000076	0.0011	0.94	0.0061	0.0000049	0.00021	0.001	0.53	0.000056	0.00001	0.86	0.018	0.0000099	0.000098	0.00054	0.0016	
		October		0.069	0.000084	0.0012	1.0	0.0067	0.0000055	0.00023	0.0011	0.59	0.000062	0.000012	0.95	0.019	0.000011	0.00011	0.00011	0.0006	0.0017
		November		0.069	0.000084	0.0012	1.0	0.0067	0.0000055	0.00023	0.0012	0.59	0.000062	0.000012	0.95	0.019	0.000011	0.00011	0.00011	0.0006	0.0017
		December		0.069	0.000084	0.0012	1.0	0.0067	0.0000055	0.00023	0.0012	0.59	0.000063	0.000012	0.95	0.019	0.000011	0.00011	0.00011	0.0006	0.0017
		January	2035	0.069	0.000084	0.0012	1.0	0.0067	0.0000055	0.00023	0.0012	0.59	0.000063	0.000012	0.96	0.019	0.000011	0.00011	0.00011	0.0006	0.0017
		February		0.069	0.000084	0.0012	1.0	0.0067	0.0000055	0.00023	0.0012	0.59	0.000063	0.000012	0.96	0.019	0.000011	0.00011	0.00011	0.0006	0.0017
		March		0.069	0.000084	0.0012	1.0	0.0067	0.0000055	0.00023	0.0012	0.59	0.000063	0.000012	0.96	0.02	0.000011	0.00011	0.00011	0.0006	0.0017
		April		0.07	0.000084	0.0012	1.0	0.0067	0.0000055	0.00023	0.0012	0.59	0.000063	0.000012	0.96	0.02	0.000011	0.00011	0.00011	0.0006	0.0017
		May		0.07	0.000085	0.0012	1.0	0.0067	0.0000055	0.00023	0.0012	0.59	0.000063	0.000012	0.96	0.02	0.000011	0.00011	0.00011	0.0006	0.0017
		June		0.073	0.000089	0.0013	1.1	0.0069	0.0000059	0.00023	0.0012	0.62	0.000066	0.000012	1.0	0.021	0.000012	0.00012	0.00011	0.00064	0.0019
		July		0.06	0.000071	0.001	0.87	0.0054	0.0000047	0.00018	0.00098	0.49	0.000052	0.0000098	0.79	0.016	0.0000095	0.000094	0.000085	0.00051	0.0014
		August		0.063	0.000073	0.0011	0.9	0.0055	0.0000048	0.00019	0.001	0.51	0.000055	0.00001	0.81	0.017	0.0000098	0.000097	0.00009	0.00053	0.0015
		September		0.062	0.000075	0.0011	0.91	0.0054	0.000005	0.00018	0.001	0.52	0.000055	0.00001	0.81	0.017	0.00001	0.000099	0.000089	0.00054	0.0016
		October		0.069	0.000083	0.0012	1.0	0.006	0.0000055	0.0002	0.0011	0.58	0.000062	0.000012	0.9	0.019	0.000011	0.00011	0.000098	0.0006	0.0017
		November		0.069	0.000083	0.0012	1.0	0.006	0.0000055	0.0002	0.0011	0.58	0.000062	0.000012	0.9	0.019	0.000011	0.00011	0.000098	0.0006	0.0017
		December		0.069	0.000083	0.0012	1.0	0.006	0.0000055	0.0002	0.0011	0.58	0.00								

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		2.93	0.3	0.5		0.1					0.002		0.02		0.1			
CCME (CEQG-PAL [chronic]) ² (mg/L)							120	0.12					0.01	0.1		0.025				1.5	0.00004			0.002				
LOCATION	Time Period	Month	Year	Constituent	TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁵	Ca	Cr	Co	Cu ⁶			
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			
Mammoth Outlet	Closure, controlled discharge from pit lake	January	2037		15	0.028	5.6	4.0	0.032	2.1	0.0091	0.011	0.0037	0.022	0.00013	0.0022	0.0058	0.000022	0.000054	0.013	0.0000061	2.8	0.00067	0.00015	0.00063			
		February			15	0.028	5.6	4.0	0.032	2.1	0.0091	0.011	0.0037	0.022	0.00013	0.0022	0.0058	0.000022	0.000054	0.013	0.0000061	2.8	0.00067	0.00015	0.00063			
		March			15	0.029	5.6	4.0	0.032	2.1	0.0091	0.011	0.0037	0.022	0.00013	0.0022	0.0058	0.000022	0.000054	0.013	0.0000061	2.8	0.00067	0.00015	0.00063			
		April			15	0.029	5.6	4.0	0.032	2.1	0.0091	0.011	0.0037	0.022	0.00013	0.0022	0.0058	0.000022	0.000054	0.013	0.0000061	2.8	0.00067	0.00015	0.00063			
		May			15	0.029	5.6	4.0	0.032	2.1	0.0091	0.011	0.0037	0.022	0.00013	0.0022	0.0058	0.000022	0.000055	0.013	0.0000061	2.8	0.00067	0.00015	0.00063			
		June			16	0.026	6.0	4.2	0.034	2.2	0.0095	0.011	0.0039	0.023	0.00014	0.0022	0.0061	0.000024	0.000058	0.013	0.0000064	3.0	0.0007	0.00016	0.00067			
		July			12	0.02	4.7	3.3	0.027	1.7	0.0075	0.009	0.0031	0.019	0.00011	0.0018	0.0048	0.000019	0.000048	0.011	0.0000051	2.3	0.00058	0.00013	0.00053			
		August			13	0.024	4.9	3.4	0.028	1.8	0.0077	0.0092	0.0032	0.02	0.00012	0.0018	0.005	0.00002	0.000048	0.011	0.0000053	2.4	0.0006	0.00013	0.00055			
		September			13	0.025	5.0	3.5	0.029	1.8	0.0078	0.0092	0.0032	0.019	0.00012	0.0018	0.0051	0.00002	0.000049	0.011	0.0000054	2.5	0.0006	0.00014	0.00056			
		October			14	0.027	5.5	3.8	0.032	2.0	0.0086	0.01	0.0036	0.022	0.00013	0.002	0.0057	0.000022	0.000054	0.012	0.000006	2.7	0.00066	0.00015	0.00062			
		November			14	0.027	5.6	3.8	0.032	2.0	0.0086	0.01	0.0036	0.022	0.00013	0.002	0.0057	0.000022	0.000054	0.012	0.000006	2.7	0.00067	0.00015	0.00062			
		December			14	0.027	5.6	3.8	0.032	2.0	0.0086	0.01	0.0036	0.022	0.00013	0.002	0.0057	0.000022	0.000054	0.012	0.000006	2.7	0.00067	0.00015	0.00063			
		January	2038		14	0.027	5.6	3.8	0.032	2.0	0.0086	0.01	0.0036	0.022	0.00013	0.002	0.0057	0.000022	0.000054	0.012	0.000006	2.7	0.00067	0.00015	0.00063			
		February			14	0.027	5.6	3.8	0.032	2.0	0.0087	0.01	0.0036	0.022	0.00013	0.002	0.0057	0.000022	0.000055	0.012	0.000006	2.7	0.00067	0.00015	0.00063			
		March			14	0.027	5.6	3.8	0.032	2.0	0.0087	0.01	0.0036	0.022	0.00013	0.002	0.0057	0.000022	0.000055	0.012	0.000006	2.7	0.00067	0.00015	0.00063			
		April			14	0.027	5.6	3.8	0.032	2.0	0.0087	0.01	0.0036	0.022	0.00013	0.002	0.0057	0.000022	0.000055	0.012	0.000006	2.7	0.00067	0.00015	0.00063			
		May			14	0.027	5.6	3.8	0.032	2.0	0.0087	0.01	0.0036	0.022	0.00013	0.002	0.0057	0.000022	0.000055	0.012	0.000006	2.7	0.00067	0.00015	0.00063			
		June			15	0.025	5.9	4.1	0.034	2.1	0.0091	0.011	0.0038	0.023	0.00014	0.0021	0.006	0.000024	0.000058	0.013	0.0000063	2.9	0.0007	0.00016	0.00066			
		July			12	0.019	4.7	3.2	0.027	1.7	0.0072	0.0083	0.003	0.019	0.00011	0.0017	0.0048	0.000019	0.000046	0.01	0.0000051	2.3	0.00058	0.00013	0.00053			
		August			12	0.023	4.8	3.3	0.028	1.7	0.0074	0.0086	0.0031	0.02	0.00012	0.0017	0.0049	0.00002	0.000048	0.011	0.0000052	2.4	0.0006	0.00013	0.00055			
		September			13	0.023	5.0	3.3	0.029	1.8	0.0074	0.0085	0.0031	0.019	0.00012	0.0017	0.005	0.00002	0.000049	0.011	0.0000053	2.4	0.0006	0.00013	0.00056			
		October			14	0.025	5.5	3.7	0.032	2.0	0.0082	0.0094	0.0035	0.022	0.00013	0.0019	0.0056	0.000022	0.000054	0.012	0.0000059	2.7	0.00066	0.00015	0.00062			
		November			14	0.025	5.5	3.7	0.032	2.0	0.0083	0.0094	0.0035	0.022	0.00013	0.0019	0.0056	0.000022	0.000054	0.012	0.0000059	2.7	0.00066	0.00015	0.00062			
		December			14	0.025	5.5	3.7	0.032	2.0	0.0083	0.0094	0.0035	0.022	0.00013	0.0019	0.0056	0.000022	0.000055	0.012	0.0000059	2.7	0.00067	0.00015	0.00062			
		January	2039		14	0.025	5.5	3.7	0.032	2.0	0.0083	0.0095	0.0035	0.022	0.00013	0.0019	0.0056	0.000022	0.000055	0.012	0.0000059	2.7	0.00067	0.00015	0.00063			
		February			14	0.025	5.5	3.7	0.032	2.0	0.0083	0.0095	0.0035	0.022	0.00013	0.0019	0.0056	0.000022	0.000055	0.012	0.0000059	2.7	0.00067	0.00015	0.00063			
		March			14	0.025	5.5	3.7	0.032	2.0	0.0083	0.0095	0.0035	0.022	0.00013	0.0019	0.0056	0.000022	0.000055	0.012	0.0000059	2.7	0.00067	0.00015	0.00063			
		April			14	0.026	5.5	3.7	0.032	2.0	0.0083	0.0095	0.0035	0.022	0.00013	0.0019	0.0056	0.000022	0.000055	0.012	0.0000059	2.7	0.00067	0.00015	0.00063			
		May			14	0.026	5.5	3.7	0.032	2.0	0.0083	0.0095	0.0035	0.022	0.00013	0.0019	0.0056	0.000022	0.000055	0.012	0.000006	2.7	0.00067	0.00015	0.00063			
		June			15	0.023	5.9	3.9	0.034	2.1	0.0087	0.0099	0.0037	0.023	0.00014	0.002	0.006	0.000024	0.000058	0.013	0.0000063	2.9	0.0007	0.00016	0.00066			
		July			12	0.017	4.7	3.1	0.027	1.7	0.0069	0.0078	0.0029	0.019	0.00011	0.0016	0.0047	0.000019	0.000046	0.01	0.000005	2.3	0.00058	0.00013	0.00053			
		August			12	0.022	4.8	3.2	0.028	1.7	0.0071	0.008	0.003	0.02	0.00012	0.0017	0.0049	0.00002	0.000048	0.011	0.0000052	2.3	0.0006	0.00013	0.00055			
		September			12	0.022	4.9	3.2	0.028	1.8	0.0072	0.008	0.003	0.019	0.00012	0.0017	0.005	0.00002	0.000049	0.011	0.0000053	2.4	0.0006	0.00013	0.00056			
		October			14	0.024	5.5	3.6	0.032	2.0	0.008	0.0089	0.0034	0.022	0.00013	0.0018	0.0056	0.000022	0.000055	0.012	0.0000059	2.7	0.00066	0.00015	0.00062			
		November			14	0.024	5.5	3.6	0.032	2.0	0.008	0.0089	0.0034	0.022	0.00013	0.0018	0.0056	0.000022	0.000055	0.012	0.0000059	2.7	0.00066	0.00015	0.00062			
		December			14	0.024	5.5	3.6	0.032	2.0	0.008	0.0089	0.0034	0.022	0.00013	0.0018	0.0056	0.000022	0.000055	0.012	0.0000059	2.7	0.00067	0.00015	0.00062			
		MINIMUM					12	0.017	4.7	3.1	0.027	1.7	0.0069	0.0078	0.0029	0.019	0.00011	0.0016	0.0047	0.000019	0.000043	0.01	0.000005	2.3	0.00058	0.00013	0.00053	
		MAXIMUM					26	0.11	7.8	8.8	0.039	3.5	0.024	0.2	0.0074	0.033	0.00019	0.0058	0.0086	0.000024	0.000058	0.024	0.0000085	4.4	0.0009	0.00022	0.00073	
		AVERAGE					17	0.044	6.0	5.2	0.033	2.4	0.013	0.03	0.0046	0.022	0.00014	0.0031	0.0063	0.000022	0.000052	0.015	0.0000065	3.1	0.00068	0.00016	0.00062	

Notes:
¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells
²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEQG's shown in bold-underlined type
³CEQG Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed
⁴CEQG Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.
⁶CEQG Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 11 mg/L.
⁷ The CEQG aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

Site and Downstream Water Quality Model Predictions
Whale Tail Approved Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05				0.004		0.25										0.1	
CCME (CEQG-PAL (chronic)) ² (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	0.007	
Constituent				Fe	Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Mammoth Outlet	Closure, controlled discharge from pit lake	January	2037	0.069	0.000082	0.0012	1.0	0.0054	0.0000056	0.00018	0.0011	0.57	0.000061	0.000012	0.85	0.018	0.000011	0.00011	0.000091	0.0006	0.0017	
		February		0.069	0.000083	0.0012	1.0	0.0054	0.0000056	0.00018	0.0011	0.57	0.000061	0.000012	0.85	0.018	0.000011	0.00011	0.000091	0.0006	0.0017	
		March		0.07	0.000083	0.0012	1.0	0.0054	0.0000056	0.00018	0.0011	0.57	0.000061	0.000012	0.85	0.018	0.000011	0.00011	0.000091	0.00061	0.0017	
		April		0.07	0.000083	0.0012	1.0	0.0055	0.0000056	0.00018	0.0011	0.57	0.000061	0.000012	0.86	0.019	0.000011	0.00011	0.000091	0.00061	0.0017	
		May		0.07	0.000083	0.0012	1.0	0.0055	0.0000056	0.00018	0.0011	0.57	0.000061	0.000012	0.86	0.019	0.000011	0.00011	0.000091	0.00061	0.0017	
		June		0.073	0.000087	0.0013	1.1	0.0056	0.0000059	0.00018	0.0012	0.6	0.000064	0.000012	0.89	0.02	0.000012	0.00012	0.000092	0.00064	0.0019	
		July		0.06	0.00007	0.001	0.84	0.0044	0.0000047	0.00014	0.00095	0.47	0.000051	0.0000099	0.71	0.015	0.0000096	0.000094	0.000073	0.00051	0.0014	
		August		0.063	0.000072	0.001	0.86	0.0045	0.0000049	0.00015	0.00099	0.49	0.000053	0.00001	0.73	0.016	0.0000099	0.000098	0.000077	0.00053	0.0015	
		September		0.062	0.000073	0.0011	0.88	0.0045	0.000005	0.00015	0.001	0.51	0.000054	0.00001	0.73	0.016	0.00001	0.00010	0.000077	0.00054	0.0015	
		October		0.069	0.000081	0.0012	0.98	0.005	0.0000055	0.00016	0.0011	0.56	0.00006	0.000012	0.81	0.018	0.000011	0.00011	0.000085	0.0006	0.0017	
		November		0.069	0.000082	0.0012	0.98	0.005	0.0000056	0.00016	0.0011	0.56	0.00006	0.000012	0.81	0.018	0.000011	0.00011	0.000085	0.0006	0.0017	
		December		0.069	0.000082	0.0012	0.98	0.005	0.0000056	0.00016	0.0011	0.57	0.00006	0.000012	0.81	0.018	0.000011	0.00011	0.000085	0.0006	0.0017	
		January	2038	0.069	0.000082	0.0012	0.98	0.005	0.0000056	0.00016	0.0011	0.57	0.00006	0.000012	0.82	0.018	0.000011	0.00011	0.000085	0.00061	0.0017	
		February		0.069	0.000082	0.0012	0.98	0.005	0.0000056	0.00016	0.0011	0.57	0.000061	0.000012	0.82	0.018	0.000011	0.00011	0.000085	0.00061	0.0017	
		March		0.07	0.000082	0.0012	0.98	0.005	0.0000056	0.00016	0.0011	0.57	0.000061	0.000012	0.82	0.018	0.000011	0.00011	0.000085	0.00061	0.0017	
		April		0.07	0.000082	0.0012	0.98	0.005	0.0000056	0.00016	0.0011	0.57	0.000061	0.000012	0.82	0.018	0.000011	0.00011	0.000085	0.00061	0.0017	
		May		0.07	0.000082	0.0012	0.98	0.005	0.0000056	0.00016	0.0011	0.57	0.000061	0.000012	0.82	0.018	0.000011	0.00011	0.000085	0.00061	0.0017	
		June		0.073	0.000087	0.0013	1.0	0.0051	0.0000059	0.00016	0.0012	0.6	0.000064	0.000012	0.86	0.019	0.000012	0.00012	0.000086	0.00064	0.0019	
		July		0.06	0.000069	0.0010	0.82	0.0041	0.0000047	0.00013	0.00095	0.47	0.000051	0.0000099	0.68	0.015	0.0000096	0.000094	0.000068	0.00051	0.0014	
		August		0.063	0.000071	0.001	0.85	0.0042	0.0000049	0.00013	0.00098	0.49	0.000053	0.00001	0.7	0.016	0.0000099	0.000098	0.000072	0.00053	0.0015	
		September		0.062	0.000073	0.0011	0.87	0.0041	0.000005	0.00013	0.00099	0.5	0.000054	0.00001	0.71	0.016	0.00001	0.0001	0.000072	0.00054	0.0015	
		October		0.069	0.000081	0.0012	0.96	0.0046	0.0000056	0.00014	0.0011	0.56	0.00006	0.000012	0.78	0.018	0.000011	0.00011	0.00008	0.0006	0.0017	
		November		0.069	0.000081	0.0012	0.96	0.0046	0.0000056	0.00014	0.0011	0.56	0.00006	0.000012	0.78	0.018	0.000011	0.00011	0.00008	0.0006	0.0017	
		December		0.069	0.000081	0.0012	0.96	0.0046	0.0000056	0.00014	0.0011	0.56	0.00006	0.000012	0.78	0.018	0.000011	0.00011	0.00008	0.00061	0.0017	
		January	2039	0.069	0.000081	0.0012	0.97	0.0046	0.0000056	0.00014	0.0011	0.56	0.00006	0.000012	0.78	0.018	0.000011	0.00011	0.00008	0.00061	0.0017	
		February		0.069	0.000081	0.0012	0.97	0.0046	0.0000056	0.00014	0.0011	0.56	0.00006	0.000012	0.79	0.018	0.000011	0.00011	0.00008	0.00061	0.0017	
		March		0.07	0.000081	0.0012	0.97	0.0046	0.0000056	0.00014	0.0011	0.56	0.00006	0.000012	0.79	0.018	0.000011	0.00011	0.00008	0.00061	0.0017	
		April		0.07	0.000081	0.0012	0.97	0.0046	0.0000056	0.00015	0.0011	0.56	0.00006	0.000012	0.79	0.018	0.000011	0.00011	0.00008	0.00061	0.0017	
		May		0.07	0.000082	0.0012	0.97	0.0046	0.0000056	0.00015	0.0011	0.56	0.00006	0.000012	0.79	0.018	0.000011	0.00011	0.00008	0.00061	0.0017	
		June		0.073	0.000086	0.0012	1.0	0.0048	0.0000059	0.00015	0.0012	0.59	0.000063	0.000012	0.83	0.019	0.000012	0.00012	0.000081	0.00064	0.0019	
		July		0.06	0.000069	0.00099	0.81	0.0038	0.0000047	0.00011	0.00094	0.47	0.00005	0.0000099	0.65	0.015	0.0000096	0.000095	0.000064	0.00052	0.0014	
		August		0.063	0.000071	0.001	0.84	0.0039	0.0000049	0.00012	0.00097	0.49	0.000052	0.00001	0.68	0.015	0.000010	0.000098	0.000068	0.00053	0.0015	
		September		0.062	0.000072	0.001	0.86	0.0039	0.000005	0.00012	0.00099	0.5	0.000053	0.00001	0.68	0.016	0.00001	0.0001	0.000068	0.00054	0.0015	
		October		0.069	0.000081	0.0012	0.95	0.0043	0.0000056	0.00013	0.0011	0.56	0.000059	0.000012	0.76	0.017	0.000011	0.00011	0.000076	0.00061	0.0017	
		November		0.069	0.000081	0.0012	0.95	0.0043	0.0000056	0.00013	0.0011	0.56	0.000059	0.000012	0.76	0.017	0.000011	0.00011	0.000076	0.00061	0.0017	
		December		0.069	0.000081	0.0012	0.95	0.0043	0.0000056	0.00013	0.0011	0.56	0.00006	0.000012	0.76	0.017	0.000011	0.00011	0.000076	0.00061	0.0017	
		MINIMUM			0.06	0.000069	0.00099	0.81	0.0038	0.0000045	0.00011	0.00094	0.47	0.00005	0.0000096	0.65	0.015	0.0000091	0.000089	0.000064	0.0005	0.0014
		MAXIMUM			0.086	0.00012	0.0015	1.6	0.018	0.0000059	0.00068	0.0017	0.81	0.000085	0.000013	2.0	0.031	0.000012	0.00012	0.00024	0.00064	0.0025
		AVERAGE			0.069	0.000087	0.0012	1.1	0.0089	0.0000053	0.00032	0.0012	0.61	0.000065	0.000011	1.1	0.021	0.000011	0.00011	0.00013	0.00058	0.0018

Notes:
¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells
²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEQG's shown in bold-underlined type
³CEQG Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed
⁴CEQG Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.
⁵CEQG Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 11 mg/L.
⁷ The CEQG aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

Site and Downstream Water Quality Model Predictions
Whale Tail Approved Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ⁶ (mg/L)				1400						16		2.93	0.3	0.5		0.1					0.002		0.02		0.1
CCME (CEQG-PAL [chronic]) ⁷ (mg/L)							120	0.12					0.01	0.1		0.025				1.5	0.00004			0.002	
LOCATION	Time Period	Month	Year	Constituent	TDS mg/L	Acidity mg/L	Alkalinity mg/L	Cl mg/L	F mg/L	SO4 mg/L	NH3 (as N) mg N/L	NO3 mg N/L	P _{total} ³ mg/L	Al ⁴ mg/L	Sb mg/L	As ² mg/L	Ba mg/L	Be mg/L	Bi mg/L	B mg/L	Cd ⁸ mg/L	Ca mg/L	Cr mg/L	Co mg/L	Cu ⁸ mg/L
Whale Tail Lake (South Basin)	Construction and Operations	January	2018		16	0	6.9	4.0	0.04	2.1	0.0093	0.0078	0.0036	0.017	0.00015	0.00026	0.0063	0.00003	0.000076	0.015	0.0000076	3.2	0.00017	0.00015	0.00077
		February			16	0	6.9	4.0	0.04	2.1	0.0093	0.0078	0.0036	0.017	0.00015	0.00026	0.0063	0.00003	0.000076	0.015	0.0000076	3.2	0.00017	0.00015	0.00077
		March			16	0	6.9	4.0	0.04	2.1	0.0093	0.0078	0.0036	0.017	0.00015	0.00026	0.0063	0.00003	0.000076	0.015	0.0000076	3.2	0.00017	0.00015	0.00077
		April			16	0	6.9	4.0	0.04	2.1	0.0093	0.0078	0.0036	0.017	0.00015	0.00026	0.0063	0.00003	0.000076	0.015	0.0000076	3.2	0.00017	0.00015	0.00077
		May			16	0	6.9	4.0	0.04	2.1	0.0093	0.0078	0.0036	0.017	0.00015	0.00026	0.0063	0.00003	0.000076	0.015	0.0000076	3.2	0.00017	0.00015	0.00077
		June			11	0	4.7	2.7	0.027	1.4	0.0063	0.0053	0.0025	0.011	0.0001	0.00018	0.0043	0.000021	0.000052	0.01	0.0000052	2.2	0.00011	0.0001	0.00052
		July			9.2	0	4.0	2.3	0.023	1.2	0.0053	0.0045	0.0021	0.0097	0.000087	0.00015	0.0036	0.000017	0.000044	0.0087	0.0000044	1.8	0.000096	0.000087	0.00044
		August			9.4	0	4.1	2.3	0.023	1.2	0.0055	0.0046	0.0021	0.0099	0.000089	0.00015	0.0037	0.000018	0.000045	0.0089	0.0000045	1.9	0.000098	0.000089	0.00045
		September			9.6	0	4.1	2.4	0.024	1.2	0.0056	0.0047	0.0022	0.01	0.000091	0.00016	0.0038	0.000018	0.000046	0.0091	0.0000046	1.9	0.00010	0.000091	0.00046
		October			14	0	6.1	3.5	0.035	1.8	0.0082	0.0069	0.0032	0.015	0.00013	0.00023	0.0055	0.000027	0.000067	0.013	0.0000067	2.8	0.00015	0.00013	0.00068
		November			14	0	6.1	3.5	0.035	1.8	0.0082	0.0069	0.0032	0.015	0.00013	0.00023	0.0055	0.000027	0.000067	0.013	0.0000067	2.8	0.00015	0.00013	0.00068
		December			14	0	6.1	3.5	0.035	1.8	0.0082	0.0069	0.0032	0.015	0.00013	0.00023	0.0055	0.000027	0.000067	0.013	0.0000067	2.8	0.00015	0.00013	0.00068
		January	2019		14	0	6.1	3.5	0.035	1.8	0.0082	0.0069	0.0032	0.015	0.00013	0.00023	0.0055	0.000027	0.000067	0.013	0.0000067	2.8	0.00015	0.00013	0.00068
		February			14	0	6.1	3.5	0.035	1.8	0.0082	0.0069	0.0032	0.015	0.00013	0.00023	0.0055	0.000027	0.000067	0.013	0.0000067	2.8	0.00015	0.00013	0.00068
		March			14	0.000092	6.0	3.4	0.035	1.8	0.008	0.0093	0.0041	0.039	0.00013	0.00054	0.0057	0.000027	0.000066	0.013	0.0000067	2.8	0.0008	0.00017	0.0007
		April			13	0.00027	5.7	3.3	0.034	1.7	0.0076	0.014	0.0059	0.085	0.00013	0.0011	0.0059	0.000026	0.000063	0.012	0.0000067	2.7	0.0021	0.00024	0.00075
		May			13	0.00033	5.6	3.2	0.033	1.7	0.0075	0.016	0.0065	0.10	0.00013	0.0013	0.0059	0.000026	0.000062	0.012	0.0000066	2.6	0.0025	0.00026	0.00077
		June			11	0.00029	4.7	2.7	0.028	1.4	0.0063	0.014	0.0057	0.087	0.00011	0.0012	0.005	0.000022	0.000052	0.01	0.0000056	2.2	0.0022	0.00023	0.00065
		July			10	0.00024	4.2	2.7	0.025	1.3	0.0059	0.012	0.0048	0.067	0.000094	0.0009	0.0044	0.000019	0.000046	0.0096	0.000005	2.0	0.0017	0.00018	0.00056
		August			11	0.00025	4.4	3.0	0.025	1.4	0.0063	0.012	0.0049	0.064	0.000095	0.00086	0.0046	0.00002	0.000046	0.01	0.0000051	2.1	0.0016	0.00018	0.00056
		September			11	0.00023	4.4	2.9	0.025	1.4	0.0063	0.011	0.0047	0.06	0.000095	0.00082	0.0046	0.00002	0.000046	0.01	0.0000051	2.1	0.0015	0.00018	0.00056
		October			27	0.00045	9.8	8.2	0.054	3.2	0.017	0.027	0.011	0.12	0.00019	0.0016	0.01	0.00004	0.000094	0.025	0.000011	4.9	0.0028	0.00036	0.0011
		November			43	0.00044	13	16	0.065	4.6	0.031	0.039	0.015	0.12	0.0002	0.0017	0.014	0.000042	0.000094	0.039	0.000015	7.1	0.0029	0.00042	0.0012
		December			66	0.00042	17	28	0.079	6.6	0.046	0.048	0.019	0.13	0.0002	0.002	0.019	0.000045	0.000094	0.059	0.00002	10	0.0033	0.00051	0.0014
		January	2020		81	0.00041	20	35	0.088	7.8	0.055	0.052	0.021	0.14	0.0002	0.0022	0.023	0.000047	0.000095	0.072	0.000023	12	0.0036	0.00057	0.0015
		February			85	0.0004	20	37	0.091	8.2	0.057	0.055	0.022	0.15	0.0002	0.0023	0.024	0.000048	0.000095	0.075	0.000024	13	0.0039	0.00059	0.0015
		March			89	0.0004	21	39	0.093	8.5	0.059	0.057	0.024	0.16	0.00021	0.0025	0.025	0.000048	0.000095	0.078	0.000025	13	0.0041	0.00062	0.0016
		April			92	0.0004	22	40	0.096	8.8	0.062	0.061	0.026	0.16	0.00021	0.0026	0.026	0.000049	0.000095	0.081	0.000026	14	0.0043	0.00064	0.0016
		May			96	0.00039	22	42	0.098	9.1	0.066	0.068	0.027	0.17	0.00021	0.0026	0.027	0.00005	0.000095	0.084	0.000027	14	0.0044	0.00066	0.0016
		June			63	0.00035	15	28	0.065	6.0	0.045	0.048	0.018	0.11	0.00014	0.0018	0.018	0.000033	0.000063	0.056	0.000018	9.4	0.0028	0.00043	0.0011
		July			41	0.0004	9.8	18	0.043	3.9	0.031	0.034	0.012	0.068	0.000094	0.0012	0.012	0.000022	0.000043	0.037	0.000012	6.2	0.0018	0.00028	0.00072
		August			41	0.00049	9.9	18	0.044	4.0	0.032	0.037	0.012	0.066	0.000097	0.0011	0.012	0.000023	0.000044	0.037	0.000012	6.2	0.0017	0.00028	0.00073
		September			41	0.00061	9.8	18	0.044	3.9	0.033	0.039	0.012	0.064	0.000098	0.0011	0.011	0.000023	0.000045	0.036	0.000012	6.1	0.0017	0.00028	0.00073
		October			79	0.0013	19	34	0.085	7.6	0.066	0.081	0.023	0.12	0.00019	0.0021	0.022	0.000044	0.000088	0.07	0.000022	12	0.0031	0.00053	0.0014
		November			81	0.0013	19	35	0.086	7.8	0.069	0.088	0.024	0.12	0.00019	0.0021	0.023	0.000044	0.000088	0.072	0.000023	12	0.0031	0.00054	0.0014
		December			83	0.0013	20	36	0.087	7.9	0.073	0.095	0.024	0.12	0.00019	0.0021	0.023	0.000044	0.000088	0.073	0.000023	12	0.0031	0.00054	0.0014
		January	2021		84	0.0013	20	36	0.087	8.0	0.077	0.1	0.025	0.12	0.00019	0.0021	0.023	0.000045	0.000088	0.074	0.000023	12	0.0031	0.00054	0.0014
		February			84	0.0013	20	36	0.088	8.0	0.079	0.11	0.025	0.12	0.00019	0.0021	0.023	0.000045	0.000088	0.074	0.000023	12	0.0031	0.00054	0.0014
		March			84	0.0013	20	36	0.088	8.0	0.082	0.11	0.025	0.12	0.00019	0.0021	0.023	0.000045	0.000088	0.074	0.000023	13	0.0031	0.00054	0.0014
		April			84	0.0013	20	37	0.088	8.0	0.085	0.12	0.025	0.12	0.00019	0.0021	0.023	0.000045	0.000088	0.074	0.000023	13	0.0031	0.00054	0.0014
		May			84	0.0013	20	37	0.088	8.0	0.088	0.13	0.025	0.12	0.00019	0.0021	0.023	0.000045	0.000088	0.075	0.000024	13	0.0031	0.00054	0.0014
		June			55	0.001	13	24	0.058	5.3	0.059	0.086	0.016	0.078	0.00013	0.0014	0.015	0.00003	0.00006	0.049	0.000015	8.2	0.002	0.00036	0.00096
		July			36	0.00087	8.8	15	0.04	3.5	0.039	0.059	0.011												

Site and Downstream Water Quality Model Predictions
Whale Tail Approved Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05					0.004		0.25									0.1	
CCME (CEQG-PAL (chronic)) ² (mg/L)				0.3	0.001					0.000026	0.073	0.025		0.001	0.00025		0.0008		0.015	0.12	0.007	
LOCATION	Time Period	Month	Year	Constituent	Fe	Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁸	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Lake (South Basin)	Construction and Operations	January	2018		0.035	0.00011	0.0015	1.1	0.0044	0.0000076	0.000089	0.001	0.62	0.000076	0.000015	0.83	0.022	0.000015	0.00015	0.000056	0.00076	0.0046
		February			0.035	0.00011	0.0015	1.1	0.0044	0.0000076	0.000089	0.001	0.62	0.000076	0.000015	0.83	0.022	0.000015	0.00015	0.000056	0.00076	0.0046
		March			0.035	0.00011	0.0015	1.1	0.0044	0.0000076	0.000089	0.001	0.62	0.000076	0.000015	0.83	0.022	0.000015	0.00015	0.000056	0.00076	0.0046
		April			0.035	0.00011	0.0015	1.1	0.0044	0.0000076	0.000089	0.001	0.62	0.000076	0.000015	0.83	0.022	0.000015	0.00015	0.000056	0.00076	0.0046
		May			0.035	0.00011	0.0015	1.1	0.0044	0.0000076	0.000089	0.001	0.62	0.000076	0.000015	0.83	0.022	0.000015	0.00015	0.000056	0.00076	0.0046
		June			0.024	0.000073	0.001	0.74	0.003	0.0000052	0.000061	0.0007	0.42	0.000052	0.00001	0.57	0.015	0.00001	0.0001	0.000038	0.00052	0.0031
		July			0.02	0.000061	0.00088	0.63	0.0025	0.0000044	0.000051	0.00059	0.35	0.000044	0.0000087	0.48	0.012	0.0000087	0.000087	0.000032	0.00044	0.0026
		August			0.02	0.000063	0.0009	0.64	0.0026	0.0000045	0.000052	0.0006	0.36	0.000045	0.0000089	0.49	0.013	0.0000089	0.000089	0.000033	0.00045	0.0027
		September			0.021	0.000064	0.00092	0.65	0.0027	0.0000046	0.000054	0.00062	0.37	0.000046	0.0000091	0.5	0.013	0.0000091	0.000091	0.000033	0.00046	0.0027
		October			0.031	0.000094	0.0014	0.96	0.0039	0.0000067	0.000079	0.00091	0.54	0.000067	0.000013	0.73	0.019	0.000013	0.00013	0.000049	0.00067	0.004
		November			0.031	0.000094	0.0014	0.96	0.0039	0.0000067	0.000079	0.00091	0.54	0.000067	0.000013	0.73	0.019	0.000013	0.00013	0.000049	0.00067	0.004
		December			0.031	0.000094	0.0014	0.96	0.0039	0.0000067	0.000079	0.00091	0.54	0.000067	0.000013	0.73	0.019	0.000013	0.00013	0.000049	0.00067	0.004
		January	2019		0.031	0.000094	0.0014	0.96	0.0039	0.0000067	0.000079	0.00091	0.54	0.000067	0.000013	0.73	0.019	0.000013	0.00013	0.000049	0.00067	0.004
		February			0.031	0.000094	0.0014	0.96	0.0039	0.0000067	0.000079	0.00091	0.54	0.000067	0.000013	0.73	0.019	0.000013	0.00013	0.000049	0.00067	0.004
		March			0.082	0.0001	0.0013	0.97	0.0046	0.0000066	0.000078	0.0012	0.54	0.000066	0.000014	0.72	0.019	0.000014	0.00013	0.00005	0.00072	0.0039
		April			0.18	0.00012	0.0013	1.0	0.006	0.0000063	0.000076	0.0018	0.54	0.000064	0.000015	0.69	0.018	0.000014	0.00013	0.000051	0.00081	0.0035
		May			0.22	0.00012	0.0013	1.0	0.0064	0.0000062	0.000076	0.0019	0.54	0.000063	0.000015	0.68	0.018	0.000014	0.00013	0.000052	0.00084	0.0034
		June			0.19	0.0001	0.0011	0.85	0.0055	0.0000052	0.000064	0.0017	0.46	0.000053	0.000013	0.58	0.015	0.000012	0.00011	0.000044	0.00072	0.0029
		July			0.14	0.000087	0.00098	0.76	0.0049	0.0000045	0.000088	0.0013	0.4	0.000047	0.000011	0.57	0.014	0.00001	0.000091	0.000047	0.0006	0.0025
		August			0.14	0.000087	0.001	0.8	0.0051	0.0000046	0.00012	0.0013	0.41	0.000048	0.000011	0.63	0.015	0.00001	0.000093	0.000055	0.0006	0.0026
		September			0.13	0.000086	0.001	0.79	0.005	0.0000046	0.00011	0.0013	0.41	0.000048	0.000011	0.63	0.015	0.00001	0.000093	0.000054	0.00059	0.0026
		October			0.25	0.00018	0.0022	1.9	0.013	0.0000093	0.00047	0.0026	0.88	0.0001	0.000022	1.8	0.035	0.00002	0.00019	0.00018	0.0012	0.0053
		November			0.26	0.00021	0.0027	2.8	0.023	0.0000091	0.0013	0.0027	1.1	0.00012	0.000022	3.6	0.054	0.00002	0.00018	0.00043	0.0012	0.0055
		December			0.28	0.00026	0.0034	4.1	0.038	0.0000089	0.0025	0.0031	1.3	0.00015	0.000023	6.0	0.081	0.00002	0.00018	0.00078	0.0012	0.0058
		January	2020		0.3	0.00028	0.0038	4.9	0.047	0.0000088	0.0033	0.0033	1.5	0.00017	0.000024	7.6	0.098	0.00002	0.00018	0.0010	0.0012	0.006
		February			0.32	0.00029	0.004	5.2	0.05	0.0000087	0.0035	0.0035	1.5	0.00018	0.000024	8.0	0.1	0.00002	0.00018	0.0011	0.0012	0.006
		March			0.34	0.0003	0.0041	5.4	0.052	0.0000087	0.0037	0.0036	1.6	0.00018	0.000024	8.4	0.11	0.00002	0.00018	0.0011	0.0012	0.006
		April			0.35	0.00031	0.0042	5.6	0.055	0.0000087	0.0039	0.0037	1.6	0.00019	0.000025	8.8	0.11	0.00002	0.00018	0.0012	0.0013	0.006
		May			0.36	0.00032	0.0043	5.8	0.057	0.0000087	0.004	0.0038	1.7	0.00019	0.000025	9.2	0.12	0.00002	0.00018	0.0012	0.0013	0.006
		June			0.23	0.00021	0.0029	3.8	0.038	0.0000058	0.0027	0.0025	1.1	0.00013	0.000016	6.1	0.076	0.000013	0.00012	0.00081	0.00083	0.004
		July			0.15	0.00014	0.0019	2.5	0.025	0.000004	0.0017	0.0017	0.73	0.000085	0.000011	3.9	0.05	0.000009	0.000081	0.00052	0.00056	0.0027
		August			0.15	0.00014	0.0019	2.5	0.025	0.0000041	0.0017	0.0016	0.73	0.000086	0.000011	3.9	0.05	0.0000092	0.000083	0.00052	0.00056	0.0028
		September			0.14	0.00014	0.0019	2.5	0.025	0.0000042	0.0017	0.0016	0.73	0.000086	0.000011	3.9	0.049	0.0000093	0.000085	0.00051	0.00056	0.0028
		October			0.26	0.00027	0.0037	4.8	0.048	0.0000081	0.0032	0.0031	1.4	0.00017	0.000022	7.5	0.096	0.000018	0.00016	0.00099	0.0011	0.0055
		November			0.26	0.00027	0.0037	4.9	0.049	0.0000081	0.0033	0.0031	1.4	0.00017	0.000022	7.7	0.098	0.000018	0.00016	0.001	0.0011	0.0055
		December			0.26	0.00027	0.0038	5.0	0.05	0.0000081	0.0034	0.0031	1.5	0.00017	0.000022	7.9	0.099	0.000018	0.00016	0.001	0.0011	0.0055
		January	2021		0.26	0.00028	0.0038	5.0	0.05	0.0000081	0.0035	0.0031	1.5	0.00017	0.000022	8.0	0.1	0.000018	0.00016	0.0011	0.0011	0.0055
		February			0.26	0.00028	0.0038	5.1	0.05	0.0000081	0.0035	0.0031	1.5	0.00017	0.000022	8.0	0.1	0.000018	0.00016	0.0011	0.0011	0.0056
		March			0.26	0.00028	0.0038	5.1	0.05	0.0000081	0.0035	0.0031	1.5	0.00017	0.000022	8.0	0.1	0.000018	0.00016	0.0011	0.0011	0.0056
		April			0.26	0.00028	0.0038	5.1	0.051	0.0000081	0.0035	0.0031	1.5	0.00017	0.000022	8.0	0.1	0.000018	0.00016	0.0011	0.0011	0.0056
		May			0.26	0.00028	0.0038	5.1	0.051	0.0000081	0.0035	0.0031	1.5	0.00017	0.000022	8.0	0.1	0.000018	0.00016	0.0011	0.0011	0.0056
		June			0.17	0.00018	0.0025	3.3	0.033	0.0000055	0.0023	0.0021	0.98	0.00011	0.000015	5.2	0.066	0.000012	0.00011	0.00069	0.00073	0.0038
		July			0.11	0.00012	0.0017	2.2	0.021	0.000004	0.0014	0.0014	0.66	0.000078	0.00001	3.4	0.044	0.0000087	0.000081	0.00044	0.00051	0.0027
		August			0.11	0.00012	0.0017	2.2	0.021	0.0000041	0.0014	0.0014	0.66	0.000078	0.00001	3.3	0.043	0.0000089	0.000083	0.00043	0.00052	0.0027
		September			0.1	0.00012	0.0017	2.1	0.02	0.0000042	0.0014	0.0013	0.65	0.000077	0.00001	3.2	0.042	0.000009	0.000084	0.00042	0.00052	0.0027
		October			0.2	0.00023	0.0032	4.0	0.038	0.0000081	0.0026	0.0026	1.3	0.00015	0.00002	6.1	0.08	0.000017	0.00016	0.00079	0.001	0.0053
		November			0.2	0.00023	0.0032	4.0	0.038	0.0000081	0.0026	0.0026	1.3	0.00015	0.00002	6.1	0.08	0.000017	0.00016	0.00079	0.001	0.0053
		December			0.2	0.00023	0.0032	4.0	0.038	0.0000081	0.0026	0.0026	1.3	0.00015								

Site and Downstream Water Quality Model Predictions
Whale Tail Approved Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ^a (mg/L)				1400						16		2.93	0.3	0.5		0.1				1.5	0.002		0.02		0.1
CCME (CEQG-PAL (chronic)) ² (mg/L)							120	0.12					0.01	0.1		0.025					0.00004			0.002	
LOCATION	Time Period	Month	Year	Constituent	TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁸	Ca	Cr	Co	Cu ⁸
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Lake (South Basin)	Closure, no mine contact water discharge	August	2022		29	0.0013	7.5	12	0.035	2.8	0.043	0.074	0.0082	0.037	0.000091	0.00066	0.0083	0.00002	0.000043	0.025	0.0000086	4.4	0.00091	0.00019	0.0006
		September			28	0.0014	7.4	11	0.035	2.8	0.041	0.07	0.008	0.036	0.000092	0.00064	0.0081	0.00002	0.000044	0.025	0.0000085	4.3	0.00087	0.00019	0.0006
		October			49	0.0025	13	20	0.062	4.9	0.071	0.12	0.014	0.063	0.00017	0.0011	0.014	0.000036	0.000079	0.043	0.000015	7.6	0.0015	0.00033	0.0011
		November			49	0.0025	13	20	0.062	4.9	0.071	0.12	0.014	0.063	0.00017	0.0011	0.014	0.000036	0.000079	0.043	0.000015	7.6	0.0015	0.00033	0.0011
		December			49	0.0025	13	20	0.062	4.9	0.071	0.12	0.014	0.063	0.00017	0.0011	0.014	0.000036	0.000079	0.043	0.000015	7.6	0.0015	0.00033	0.0011
		January	2023		49	0.0025	13	20	0.062	4.9	0.071	0.12	0.014	0.063	0.00017	0.0011	0.014	0.000036	0.000079	0.043	0.000015	7.6	0.0015	0.00033	0.0011
		February			49	0.0025	13	20	0.062	4.9	0.071	0.12	0.014	0.063	0.00017	0.0011	0.014	0.000036	0.000079	0.043	0.000015	7.6	0.0015	0.00033	0.0011
		March			49	0.0025	13	20	0.062	4.9	0.071	0.12	0.014	0.063	0.00017	0.0011	0.014	0.000036	0.000079	0.043	0.000015	7.6	0.0015	0.00033	0.0011
		April			49	0.0025	13	20	0.062	4.9	0.071	0.12	0.014	0.063	0.00017	0.0011	0.014	0.000036	0.000079	0.043	0.000015	7.6	0.0015	0.00033	0.0011
		May			49	0.0025	13	20	0.062	4.9	0.071	0.12	0.014	0.063	0.00017	0.0011	0.014	0.000036	0.000079	0.043	0.000015	7.6	0.0015	0.00033	0.0011
		June			33	0.0018	8.9	13	0.043	3.3	0.047	0.081	0.0093	0.042	0.00012	0.00075	0.0098	0.000025	0.000056	0.029	0.00001	5.2	0.001	0.00023	0.00075
		July			23	0.0013	6.3	8.8	0.031	2.3	0.032	0.053	0.0064	0.029	0.000087	0.00051	0.0068	0.000019	0.000042	0.02	0.0000072	3.6	0.00067	0.00016	0.00054
		August			22	0.0012	6.3	8.6	0.031	2.3	0.031	0.051	0.0062	0.028	0.00009	0.0005	0.0068	0.000019	0.000043	0.02	0.0000073	3.6	0.00065	0.00016	0.00055
		September			22	0.0012	6.3	8.3	0.031	2.3	0.029	0.049	0.006	0.027	0.000092	0.00048	0.0067	0.000019	0.000044	0.019	0.0000072	3.5	0.00062	0.00016	0.00056
		October			33	0.0018	9.7	12	0.048	3.5	0.044	0.073	0.0091	0.041	0.00014	0.00072	0.01	0.00003	0.000069	0.03	0.000011	5.3	0.00093	0.00024	0.00087
		November			33	0.0018	9.7	12	0.048	3.5	0.044	0.073	0.0091	0.041	0.00014	0.00072	0.01	0.00003	0.000069	0.03	0.000011	5.3	0.00093	0.00024	0.00087
		December			33	0.0018	9.7	12	0.048	3.5	0.044	0.073	0.0091	0.041	0.00014	0.00072	0.01	0.00003	0.000069	0.03	0.000011	5.3	0.00093	0.00024	0.00087
		January	2024		33	0.0018	9.7	12	0.048	3.5	0.044	0.073	0.0091	0.041	0.00014	0.00072	0.01	0.00003	0.000069	0.03	0.000011	5.3	0.00093	0.00024	0.00087
		February			33	0.0018	9.7	12	0.048	3.5	0.044	0.073	0.0091	0.041	0.00014	0.00072	0.01	0.00003	0.000069	0.03	0.000011	5.3	0.00093	0.00024	0.00087
		March			33	0.0018	9.7	12	0.048	3.5	0.044	0.073	0.0091	0.041	0.00014	0.00072	0.01	0.00003	0.000069	0.03	0.000011	5.3	0.00093	0.00024	0.00087
		April			33	0.0018	9.7	12	0.048	3.5	0.044	0.073	0.0091	0.041	0.00014	0.00072	0.01	0.00003	0.000069	0.03	0.000011	5.3	0.00093	0.00024	0.00087
		May			33	0.0018	9.7	12	0.048	3.5	0.044	0.073	0.0091	0.041	0.00014	0.00072	0.01	0.00003	0.000069	0.03	0.000011	5.3	0.00093	0.00024	0.00087
		June			24	0.0013	7.1	8.8	0.036	2.5	0.031	0.05	0.0065	0.029	0.00011	0.00051	0.0075	0.000023	0.000053	0.021	0.0000081	3.9	0.00065	0.00017	0.00065
		July			17	0.00089	5.4	6.3	0.028	1.9	0.021	0.034	0.0047	0.021	0.000088	0.00037	0.0056	0.000018	0.000043	0.016	0.0000061	2.9	0.00045	0.00013	0.00051
		August			17	0.00083	5.4	6.1	0.028	1.9	0.02	0.032	0.0046	0.02	0.00009	0.00036	0.0056	0.000019	0.000044	0.016	0.0000061	2.9	0.00043	0.00013	0.00052
		September			17	0.00077	5.4	5.8	0.028	1.8	0.019	0.03	0.0044	0.02	0.000092	0.00034	0.0055	0.000019	0.000045	0.015	0.0000061	2.8	0.0004	0.00013	0.00052
		October			24	0.0011	7.8	8.2	0.041	2.6	0.027	0.042	0.0062	0.028	0.00013	0.00049	0.0079	0.000028	0.000066	0.022	0.0000088	4.1	0.00056	0.00019	0.00076
		November			24	0.0011	7.8	8.2	0.041	2.6	0.027	0.042	0.0062	0.028	0.00013	0.00049	0.0079	0.000028	0.000066	0.022	0.0000088	4.1	0.00056	0.00019	0.00076
		December			24	0.0011	7.8	8.2	0.041	2.6	0.027	0.042	0.0062	0.028	0.00013	0.00049	0.0079	0.000028	0.000066	0.022	0.0000088	4.1	0.00056	0.00019	0.00076
		January	2025		24	0.0011	7.8	8.2	0.041	2.6	0.027	0.042	0.0062	0.028	0.00013	0.00049	0.0079	0.000028	0.000066	0.022	0.0000088	4.1	0.00056	0.00019	0.00076
		February			24	0.0011	7.8	8.2	0.041	2.6	0.027	0.042	0.0062	0.028	0.00013	0.00049	0.0079	0.000028	0.000066	0.022	0.0000088	4.1	0.00056	0.00019	0.00076
		March			24	0.0011	7.8	8.2	0.041	2.6	0.027	0.042	0.0062	0.028	0.00013	0.00049	0.0079	0.000028	0.000066	0.022	0.0000088	4.1	0.00056	0.00019	0.00076
		April			24	0.0011	7.8	8.2	0.041	2.6	0.027	0.042	0.0062	0.028	0.00013	0.00049	0.0079	0.000028	0.000066	0.022	0.0000088	4.1	0.00056	0.00019	0.00076
		May			24	0.0011	7.8	8.2	0.041	2.6	0.027	0.042	0.0062	0.028	0.00013	0.00049	0.0079	0.000028	0.000066	0.022	0.0000088	4.1	0.00056	0.00019	0.00076
		June			18	0.00071	6.0	5.9	0.032	2.0	0.019	0.029	0.0046	0.02	0.00011	0.00035	0.006	0.000022	0.000053	0.016	0.0000067	3.1	0.00039	0.00014	0.0006
		July			14	0.00048	4.8	4.4	0.026	1.6	0.014	0.02	0.0034	0.015	0.00009	0.00026	0.0047	0.000018	0.000044	0.013	0.0000054	2.4	0.00028	0.00011	0.0005
		August			13	0.00043	4.8	4.2	0.027	1.6	0.013	0.018	0.0034	0.015	0.000092	0.00026	0.0047	0.000019	0.000045	0.012	0.0000054	2.4	0.00026	0.00011	0.0005
		September			13	0.00037	4.8	4.0	0.027	1.5	0.012	0.016	0.0032	0.014	0.000093	0.00024	0.0046	0.000019	0.000046	0.012	0.0000053	2.4	0.00024	0.00011	0.00051
		October			19	0.0005	7.0	5.7	0.039	2.2	0.017	0.023	0.0046	0.02	0.00014	0.00035	0.0067	0.000028	0.000068	0.017	0.0000078	3.4	0.00034	0.00016	0.00074
		November			19	0.0005	7.0	5.7	0.039	2.2	0.017	0.023	0.0046	0.02	0.00014	0.00035	0.0067	0.000028	0.000068	0.017	0.0000078	3.4	0.00034	0.00016	0.00074
		December			19	0.0005	7.0	5.7	0.039	2.2	0.017	0.023	0.0046	0.02	0.00014	0.00035</									

Site and Downstream Water Quality Model Predictions
Whale Tail Approved Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05					0.004		0.25								0.1	
CCME (CEQG-PAL (chronic)) ² (mg/L)				0.3	0.001					0.000026	0.073	0.025		0.001	0.00025		0.0008		0.015	0.12	0.007
Constituent				Fe	Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁸	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Lake (South Basin)	Closure, no mine contact water discharge	August	2022	0.083	0.00011	0.0015	1.7	0.016	0.0000041	0.001	0.0011	0.57	0.000068	0.0000098	2.6	0.035	0.0000087	0.000083	0.00033	0.00049	0.0026
		September		0.08	0.0001	0.0015	1.7	0.015	0.0000042	0.001	0.0011	0.57	0.000068	0.0000099	2.5	0.034	0.0000089	0.000085	0.00031	0.00049	0.0027
		October		0.14	0.00018	0.0026	3.0	0.026	0.0000075	0.0017	0.002	1.0	0.00012	0.000018	4.3	0.059	0.000016	0.00015	0.00054	0.00088	0.0048
		November		0.14	0.00018	0.0026	3.0	0.026	0.0000075	0.0017	0.002	1.0	0.00012	0.000018	4.3	0.059	0.000016	0.00015	0.00054	0.00088	0.0048
		December		0.14	0.00018	0.0026	3.0	0.026	0.0000075	0.0017	0.002	1.0	0.00012	0.000018	4.3	0.059	0.000016	0.00015	0.00054	0.00088	0.0048
		January	2023	0.14	0.00018	0.0026	3.0	0.026	0.0000075	0.0017	0.002	1.0	0.00012	0.000018	4.3	0.059	0.000016	0.00015	0.00054	0.00088	0.0048
		February		0.14	0.00018	0.0026	3.0	0.026	0.0000075	0.0017	0.002	1.0	0.00012	0.000018	4.3	0.059	0.000016	0.00015	0.00054	0.00088	0.0048
		March		0.14	0.00018	0.0026	3.0	0.026	0.0000075	0.0017	0.002	1.0	0.00012	0.000018	4.3	0.059	0.000016	0.00015	0.00054	0.00088	0.0048
		April		0.14	0.00018	0.0026	3.0	0.026	0.0000075	0.0017	0.002	1.0	0.00012	0.000018	4.3	0.059	0.000016	0.00015	0.00054	0.00088	0.0048
		May		0.14	0.00018	0.0026	3.0	0.026	0.0000075	0.0017	0.002	1.0	0.00012	0.000018	4.3	0.059	0.000016	0.00015	0.00054	0.00088	0.0048
		June		0.095	0.00013	0.0018	2.0	0.018	0.0000054	0.0011	0.0014	0.7	0.000083	0.000012	2.9	0.04	0.000011	0.00011	0.00036	0.00062	0.0034
		July		0.065	0.000091	0.0013	1.4	0.012	0.0000041	0.00075	0.00097	0.5	0.00006	0.0000092	1.9	0.028	0.0000085	0.000082	0.00024	0.00046	0.0025
		August		0.063	0.000092	0.0013	1.4	0.011	0.0000042	0.00073	0.00097	0.5	0.00006	0.0000095	1.9	0.027	0.0000087	0.000085	0.00023	0.00047	0.0026
		September		0.061	0.000091	0.0013	1.4	0.011	0.0000043	0.00068	0.00096	0.5	0.00006	0.0000096	1.8	0.027	0.0000089	0.000086	0.00022	0.00048	0.0026
		October		0.093	0.00014	0.002	2.1	0.017	0.0000067	0.001	0.0015	0.77	0.000093	0.000015	2.7	0.041	0.000014	0.00014	0.00033	0.00075	0.0041
		November		0.093	0.00014	0.002	2.1	0.017	0.0000067	0.001	0.0015	0.77	0.000093	0.000015	2.7	0.041	0.000014	0.00014	0.00033	0.00075	0.0041
		December		0.093	0.00014	0.002	2.1	0.017	0.0000067	0.001	0.0015	0.77	0.000093	0.000015	2.7	0.041	0.000014	0.00014	0.00033	0.00075	0.0041
		January	2024	0.093	0.00014	0.002	2.1	0.017	0.0000067	0.001	0.0015	0.77	0.000093	0.000015	2.7	0.041	0.000014	0.00014	0.00033	0.00075	0.0041
		February		0.093	0.00014	0.002	2.1	0.017	0.0000067	0.001	0.0015	0.77	0.000093	0.000015	2.7	0.041	0.000014	0.00014	0.00033	0.00075	0.0041
		March		0.093	0.00014	0.002	2.1	0.017	0.0000067	0.001	0.0015	0.77	0.000093	0.000015	2.7	0.041	0.000014	0.00014	0.00033	0.00075	0.0041
		April		0.093	0.00014	0.002	2.1	0.017	0.0000067	0.001	0.0015	0.77	0.000093	0.000015	2.7	0.041	0.000014	0.00014	0.00033	0.00075	0.0041
		May		0.093	0.00014	0.002	2.1	0.017	0.0000067	0.001	0.0015	0.77	0.000093	0.000015	2.7	0.041	0.000014	0.00014	0.00033	0.00075	0.0041
		June		0.066	0.0001	0.0015	1.5	0.012	0.0000052	0.0007	0.0011	0.58	0.000069	0.000011	1.9	0.029	0.000011	0.0001	0.00023	0.00057	0.0031
		July		0.048	0.00008	0.0011	1.1	0.0082	0.0000042	0.00048	0.00083	0.44	0.000054	0.0000091	1.4	0.022	0.0000086	0.000084	0.00016	0.00045	0.0025
		August		0.047	0.00008	0.0011	1.1	0.0079	0.0000043	0.00045	0.00083	0.45	0.000054	0.0000093	1.3	0.021	0.0000089	0.000087	0.00015	0.00046	0.0026
		September		0.045	0.00008	0.0011	1.1	0.0074	0.0000044	0.00042	0.00083	0.45	0.000054	0.0000094	1.3	0.021	0.000009	0.000089	0.00014	0.00047	0.0026
		October		0.064	0.00012	0.0016	1.5	0.01	0.0000065	0.00058	0.0012	0.65	0.000079	0.000014	1.8	0.03	0.000013	0.00013	0.0002	0.00069	0.0038
		November		0.064	0.00012	0.0016	1.5	0.01	0.0000065	0.00058	0.0012	0.65	0.000079	0.000014	1.8	0.03	0.000013	0.00013	0.0002	0.00069	0.0038
		December		0.064	0.00012	0.0016	1.5	0.01	0.0000065	0.00058	0.0012	0.65	0.000079	0.000014	1.8	0.03	0.000013	0.00013	0.0002	0.00069	0.0038
		January	2025	0.064	0.00012	0.0016	1.5	0.01	0.0000065	0.00058	0.0012	0.65	0.000079	0.000014	1.8	0.03	0.000013	0.00013	0.0002	0.00069	0.0038
		February		0.064	0.00012	0.0016	1.5	0.01	0.0000065	0.00058	0.0012	0.65	0.000079	0.000014	1.8	0.03	0.000013	0.00013	0.0002	0.00069	0.0038
		March		0.064	0.00012	0.0016	1.5	0.01	0.0000065	0.00058	0.0012	0.65	0.000079	0.000014	1.8	0.03	0.000013	0.00013	0.0002	0.00069	0.0038
		April		0.064	0.00012	0.0016	1.5	0.01	0.0000065	0.00058	0.0012	0.65	0.000079	0.000014	1.8	0.03	0.000013	0.00013	0.0002	0.00069	0.0038
		May		0.064	0.00012	0.0016	1.5	0.01	0.0000065	0.00058	0.0012	0.65	0.000079	0.000014	1.8	0.03	0.000013	0.00013	0.0002	0.00069	0.0038
		June		0.047	0.00009	0.0013	1.1	0.0074	0.0000052	0.00039	0.00092	0.5	0.000061	0.000011	1.3	0.022	0.000011	0.0001	0.00014	0.00055	0.0031
		July		0.036	0.000073	0.001	0.89	0.0054	0.0000044	0.00027	0.00074	0.41	0.00005	0.0000091	0.95	0.017	0.0000089	0.000088	0.000099	0.00046	0.0026
		August		0.035	0.000073	0.001	0.88	0.0052	0.0000045	0.00025	0.00074	0.41	0.00005	0.0000093	0.91	0.017	0.0000091	0.00009	0.000093	0.00047	0.0026
		September		0.034	0.000073	0.001	0.86	0.0049	0.0000046	0.00022	0.00073	0.41	0.00005	0.0000095	0.86	0.017	0.0000093	0.000092	0.000085	0.00047	0.0027
		October		0.048	0.00011	0.0015	1.2	0.0069	0.0000068	0.0003	0.0011	0.6	0.000074	0.000014	1.2	0.024	0.000014	0.00014	0.00012	0.0007	0.004
		November		0.048	0.00011	0.0015	1.2	0.0069	0.0000068	0.0003	0.0011	0.6	0.000074	0.000014	1.2	0.024	0.000014	0.00014	0.00012	0.0007	0.004
		December		0.048	0.00011	0.0015	1.2	0.0069	0.0000068	0.0003	0.0011	0.6	0.000074	0.000014	1.2	0.024	0.000014	0.00014	0.00012	0.0007	0.004
		January	2026	0.048	0.00011	0.0015	1.2	0.0069	0.0000068	0.0003	0.0011	0.6	0.000074	0.000014	1.2	0.024	0.000014	0.00014	0.00012	0.0007	0.004
		February		0.048	0.00011	0.0015	1.2	0.0069	0.0000068	0.0003	0.0011	0.6	0.000074	0.000014	1.2	0.024	0.000014	0.00014	0.00012	0.0007	0.004
		March		0.048	0.00011	0.0015	1.2	0.0069	0.0000068	0.0003	0.0011	0.6	0.000074	0.000014	1.2	0.024	0.000014	0.00014	0.00012	0.0007	0.004
		April		0.048	0.00011	0.0015	1.2	0.0069	0.0000068	0.0003	0.0011	0.6	0.000074	0.000014	1.2	0.024	0.000014	0.00014	0.00012	0.0007	0.004
		May		0.048	0.00011	0.0015	1.2	0.0069	0.0000068	0.0003	0.0011	0.6	0.000074	0.000014	1.2	0.024	0.000014	0.00014	0.00012	0.0007	0.004
		June		0.036	0.000083	0.0012	0.94	0.005	0.0000054	0.00021	0.00083	0.47	0.000057	0.000011	0.89	0.018	0.000011	0.00011	0.000084	0.00055	0.0031
		July		0.027	0.000067	0.00095	0.74	0.0036	0.0000044	0.00013	0.00066	0.38	0.000047	0.000009	0.67	0.					

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		2.93	0.3	0.5		0.1									0.002		0.02		0.1
CCME (CEQG-PAL (chronic)) ² (mg/L)							120	0.12					0.01	0.1		0.025				1.5	0.00004							0.002	
		Constituent		TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	Al ⁴	Sb	As ²	Ba	Be	Bi	B	Cd ⁸	Ca	Cr	Co	Cu ⁸					
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L					
Whale Tail Lake (South Basin)	Closure, controlled discharge from pit lake	July	2027	10	0.000072	4.2	2.6	0.024	1.3	0.0066	0.0069	0.0023	0.01	0.00009	0.00017	0.0039	0.000018	0.000045	0.0095	0.0000046	1.9	0.00013	0.000093	0.00047					
		August		10	0.000063	4.3	2.6	0.025	1.3	0.0066	0.0067	0.0023	0.01	0.000092	0.00017	0.0039	0.000018	0.000046	0.0096	0.0000047	2.0	0.00013	0.000094	0.00048					
		September		10	0.000054	4.3	2.6	0.025	1.3	0.0065	0.0065	0.0024	0.01	0.000093	0.00017	0.004	0.000019	0.000047	0.0097	0.0000048	2.0	0.00013	0.000096	0.00049					
		October		15	0.000073	6.4	3.9	0.037	1.9	0.0095	0.0094	0.0034	0.015	0.00014	0.00025	0.0059	0.000028	0.000069	0.014	0.000007	2.9	0.00018	0.00014	0.00072					
		November		15	0.000073	6.4	3.9	0.037	1.9	0.0095	0.0094	0.0034	0.015	0.00014	0.00025	0.0059	0.000028	0.000069	0.014	0.000007	2.9	0.00018	0.00014	0.00072					
		December		15	0.000073	6.4	3.9	0.037	1.9	0.0095	0.0094	0.0034	0.015	0.00014	0.00025	0.0059	0.000028	0.000069	0.014	0.000007	2.9	0.00018	0.00014	0.00072					
		January	2028	15	0.000073	6.4	3.9	0.037	1.9	0.0095	0.0094	0.0034	0.015	0.00014	0.00025	0.0059	0.000028	0.000069	0.014	0.000007	2.9	0.00018	0.00014	0.00072					
		February		15	0.000073	6.4	3.9	0.037	1.9	0.0095	0.0094	0.0034	0.015	0.00014	0.00025	0.0059	0.000028	0.000069	0.014	0.000007	2.9	0.00018	0.00014	0.00072					
		March		15	0.000073	6.4	3.9	0.037	1.9	0.0095	0.0094	0.0034	0.015	0.00014	0.00025	0.0059	0.000028	0.000069	0.014	0.000007	2.9	0.00018	0.00014	0.00072					
		April		15	0.000073	6.4	3.9	0.037	1.9	0.0095	0.0094	0.0034	0.015	0.00014	0.00025	0.0059	0.000028	0.000069	0.014	0.000007	2.9	0.00018	0.00014	0.00072					
		May		15	0.000073	6.4	3.9	0.037	1.9	0.0095	0.0094	0.0034	0.015	0.00014	0.00025	0.0059	0.000028	0.000069	0.014	0.000007	2.9	0.00018	0.00014	0.00072					
		June		12	0.000047	5.0	3.0	0.029	1.5	0.0073	0.0071	0.0027	0.012	0.00011	0.0002	0.0046	0.000022	0.000054	0.011	0.0000055	2.3	0.00014	0.00011	0.00056					
		July		9.6	0.000027	4.1	2.4	0.024	1.2	0.0059	0.0055	0.0022	0.0097	0.000089	0.00016	0.0038	0.000018	0.000045	0.0091	0.0000045	1.9	0.00011	0.000091	0.00046					
		August		9.8	0.000024	4.2	2.5	0.024	1.3	0.0059	0.0056	0.0022	0.0099	0.000092	0.00016	0.0039	0.000018	0.000046	0.0093	0.0000046	1.9	0.00011	0.000093	0.00048					
		September		10.0	0.00002	4.3	2.5	0.025	1.3	0.006	0.0055	0.0023	0.01	0.000093	0.00016	0.0039	0.000019	0.000047	0.0095	0.0000047	2.0	0.00011	0.000094	0.00048					
		October		15	0.000027	6.3	3.7	0.037	1.9	0.0088	0.0081	0.0033	0.015	0.00014	0.00024	0.0058	0.000028	0.000069	0.014	0.0000069	2.9	0.00017	0.00014	0.00071					
		November		15	0.000027	6.3	3.7	0.037	1.9	0.0088	0.0081	0.0033	0.015	0.00014	0.00024	0.0058	0.000028	0.000069	0.014	0.0000069	2.9	0.00017	0.00014	0.00071					
		December		15	0.000027	6.3	3.7	0.037	1.9	0.0088	0.0081	0.0033	0.015	0.00014	0.00024	0.0058	0.000028	0.000069	0.014	0.0000069	2.9	0.00017	0.00014	0.00071					
		January	2029	15	0.000027	6.3	3.7	0.037	1.9	0.0088	0.0081	0.0033	0.015	0.00014	0.00024	0.0058	0.000028	0.000069	0.014	0.0000069	2.9	0.00017	0.00014	0.00071					
		February		15	0.000027	6.3	3.7	0.037	1.9	0.0088	0.0081	0.0033	0.015	0.00014	0.00024	0.0058	0.000028	0.000069	0.014	0.0000069	2.9	0.00017	0.00014	0.00071					
		March		15	0.000027	6.3	3.7	0.037	1.9	0.0088	0.0081	0.0033	0.015	0.00014	0.00024	0.0058	0.000028	0.000069	0.014	0.0000069	2.9	0.00017	0.00014	0.00071					
		April		15	0.000027	6.3	3.7	0.037	1.9	0.0088	0.0081	0.0033	0.015	0.00014	0.00024	0.0058	0.000028	0.000069	0.014	0.0000069	2.9	0.00017	0.00014	0.00071					
		May		15	0.000027	6.3	3.7	0.037	1.9	0.0088	0.0081	0.0033	0.015	0.00014	0.00024	0.0058	0.000028	0.000069	0.014	0.0000069	2.9	0.00017	0.00014	0.00071					
		June		12	0.000018	5.0	2.9	0.029	1.5	0.0069	0.0063	0.0026	0.012	0.00011	0.00019	0.0046	0.000022	0.000054	0.011	0.0000055	2.3	0.00013	0.00011	0.00056					
		July		9.5	0.00001	4.1	2.4	0.024	1.2	0.0056	0.005	0.0021	0.0095	0.000089	0.00016	0.0037	0.000018	0.000045	0.009	0.0000045	1.9	0.00011	0.00009	0.00046					
		August		9.7	0.000009	4.2	2.4	0.024	1.3	0.0057	0.0051	0.0022	0.0097	0.000092	0.00016	0.0038	0.000018	0.000046	0.0092	0.0000046	1.9	0.00011	0.000092	0.00047					
		September		9.9	0.0000077	4.3	2.5	0.025	1.3	0.0058	0.0052	0.0022	0.0099	0.000093	0.00016	0.0039	0.000019	0.000047	0.0094	0.0000047	1.9	0.00011	0.000094	0.00048					
		October		15	0.00001	6.3	3.6	0.037	1.9	0.0085	0.0076	0.0033	0.015	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071					
		November		15	0.00001	6.3	3.6	0.037	1.9	0.0085	0.0076	0.0033	0.015	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071					
		December		15	0.00001	6.3	3.6	0.037	1.9	0.0085	0.0076	0.0033	0.015	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071					
		January	2030	15	0.00001	6.3	3.6	0.037	1.9	0.0085	0.0076	0.0033	0.015	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071					
		February		15	0.00001	6.3	3.6	0.037	1.9	0.0085	0.0076	0.0033	0.015	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071					
		March		15	0.00001	6.3	3.6	0.037	1.9	0.0085	0.0076	0.0033	0.015	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071					
		April		15	0.00001	6.3	3.6	0.037	1.9	0.0085	0.0076	0.0033	0.015	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071					
		May		15	0.00001	6.3	3.6	0.037	1.9	0.0085	0.0076	0.0033	0.015	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071					
		June		11	0.0000066	5.0	2.9	0.029	1.5	0.0067	0.0059	0.0026	0.011	0.00011	0.00019	0.0045	0.000022	0.000054	0.011	0.0000054	2.3	0.00013	0.00011	0.00056					
		July		9.5	0.0000038	4.1	2.3	0.024	1.2	0.0055	0.0049	0.0021	0.0094	0.000089	0.00015	0.0037	0.000018	0.000045	0.009	0.0000045	1.9	0.0001	0.00009	0.00046					
		August		9.7	0.0000034	4.2	2.4	0.024	1.3	0.0056	0.005	0.0022	0.0096	0.000092	0.00016	0.0038	0.000018	0.000046	0.0092	0.0000046	1.9	0.00011	0.000092	0.00047					
		September		9.8	0.0000029	4.3	2.4	0.025	1.3	0.0057	0.005	0.0022	0.0098	0.000093	0.00016	0.0039	0.000019	0.000047	0.0093	0.0000047	1.9	0.00011	0.000093	0.00048					
		October		15	0.0000039	6.3	3.6	0.036	1.9	0.0084	0.0074	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071					
		November		15	0.0000039	6.3	3.6	0.036	1.9	0.0084	0.0074	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071					
		December		15	0.0000039	6.3	3.6	0.036																					

Site and Downstream Water Quality Model Predictions
Whale Tail Approved Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05					0.004		0.25								0.1	
CCME (CEQG-PAL (chronic)) ² (mg/L)				0.3	0.001					0.000026	0.073	0.025		0.001	0.00025		0.0008		0.015	0.12	0.007
Constituent				Fe	Pb ⁴	Li	Mg	Mn	Hg	Mo	Ni ⁵	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Lake (South Basin)	Closure, controlled discharge from pit lake	July	2027	0.024	0.000065	0.00092	0.68	0.003	0.0000045	0.000083	0.00064	0.37	0.000045	0.000009	0.56	0.013	0.0000089	0.000089	0.000044	0.00045	0.0026
		August		0.024	0.000066	0.00094	0.69	0.003	0.0000046	0.00008	0.00065	0.38	0.000046	0.0000092	0.56	0.014	0.0000092	0.000092	0.000044	0.00046	0.0026
		September		0.025	0.000067	0.00095	0.7	0.003	0.0000047	0.000077	0.00066	0.38	0.000047	0.0000093	0.57	0.014	0.0000093	0.000093	0.000043	0.00047	0.0027
		October		0.036	0.000099	0.0014	1.0	0.0043	0.0000069	0.00011	0.00097	0.56	0.00007	0.000014	0.83	0.02	0.000014	0.00014	0.000063	0.00069	0.004
		November		0.036	0.000099	0.0014	1.0	0.0043	0.0000069	0.00011	0.00097	0.56	0.00007	0.000014	0.83	0.02	0.000014	0.00014	0.000063	0.00069	0.004
		December		0.036	0.000099	0.0014	1.0	0.0043	0.0000069	0.00011	0.00097	0.56	0.00007	0.000014	0.83	0.02	0.000014	0.00014	0.000063	0.00069	0.004
		January	2028	0.036	0.000099	0.0014	1.0	0.0043	0.0000069	0.00011	0.00097	0.56	0.00007	0.000014	0.83	0.02	0.000014	0.00014	0.000063	0.00069	0.004
		February		0.036	0.000099	0.0014	1.0	0.0043	0.0000069	0.00011	0.00097	0.56	0.00007	0.000014	0.83	0.02	0.000014	0.00014	0.000063	0.00069	0.004
		March		0.036	0.000099	0.0014	1.0	0.0043	0.0000069	0.00011	0.00097	0.56	0.00007	0.000014	0.83	0.02	0.000014	0.00014	0.000063	0.00069	0.004
		April		0.036	0.000099	0.0014	1.0	0.0043	0.0000069	0.00011	0.00097	0.56	0.00007	0.000014	0.83	0.02	0.000014	0.00014	0.000063	0.00069	0.004
		May		0.036	0.000099	0.0014	1.0	0.0043	0.0000069	0.00011	0.00097	0.56	0.00007	0.000014	0.83	0.02	0.000014	0.00014	0.000063	0.00069	0.004
		June		0.028	0.000078	0.0011	0.81	0.0034	0.0000054	0.000083	0.00076	0.44	0.000055	0.000011	0.64	0.016	0.000011	0.00011	0.000048	0.00054	0.0031
		July		0.023	0.000064	0.00091	0.66	0.0027	0.0000045	0.000064	0.00063	0.36	0.000045	0.000009	0.52	0.013	0.0000089	0.00009	0.000038	0.00045	0.0026
		August		0.023	0.000065	0.00093	0.68	0.0028	0.0000046	0.000063	0.00064	0.37	0.000046	0.0000092	0.53	0.013	0.0000092	0.000092	0.000039	0.00046	0.0027
		September		0.024	0.000066	0.00095	0.69	0.0028	0.0000047	0.000063	0.00065	0.38	0.000047	0.0000093	0.54	0.013	0.0000093	0.000093	0.000039	0.00047	0.0027
		October		0.035	0.000098	0.0014	1.0	0.0041	0.0000069	0.000092	0.00096	0.56	0.000069	0.000014	0.79	0.02	0.000014	0.00014	0.000057	0.00069	0.004
		November		0.035	0.000098	0.0014	1.0	0.0041	0.0000069	0.000092	0.00096	0.56	0.000069	0.000014	0.79	0.02	0.000014	0.00014	0.000057	0.00069	0.004
		December		0.035	0.000098	0.0014	1.0	0.0041	0.0000069	0.000092	0.00096	0.56	0.000069	0.000014	0.79	0.02	0.000014	0.00014	0.000057	0.00069	0.004
		January	2029	0.035	0.000098	0.0014	1.0	0.0041	0.0000069	0.000092	0.00096	0.56	0.000069	0.000014	0.79	0.02	0.000014	0.00014	0.000057	0.00069	0.004
		February		0.035	0.000098	0.0014	1.0	0.0041	0.0000069	0.000092	0.00096	0.56	0.000069	0.000014	0.79	0.02	0.000014	0.00014	0.000057	0.00069	0.004
		March		0.035	0.000098	0.0014	1.0	0.0041	0.0000069	0.000092	0.00096	0.56	0.000069	0.000014	0.79	0.02	0.000014	0.00014	0.000057	0.00069	0.004
		April		0.035	0.000098	0.0014	1.0	0.0041	0.0000069	0.000092	0.00096	0.56	0.000069	0.000014	0.79	0.02	0.000014	0.00014	0.000057	0.00069	0.004
		May		0.035	0.000098	0.0014	1.0	0.0041	0.0000069	0.000092	0.00096	0.56	0.000069	0.000014	0.79	0.02	0.000014	0.00014	0.000057	0.00069	0.004
		June		0.027	0.000077	0.0011	0.79	0.0032	0.0000054	0.000071	0.00076	0.44	0.000054	0.000011	0.62	0.015	0.000011	0.00011	0.000044	0.00054	0.0031
		July		0.022	0.000064	0.00091	0.65	0.0026	0.0000045	0.000056	0.00062	0.36	0.000045	0.000009	0.51	0.013	0.0000089	0.00009	0.000036	0.00045	0.0026
		August		0.023	0.000065	0.00093	0.67	0.0027	0.0000046	0.000057	0.00064	0.37	0.000046	0.0000092	0.52	0.013	0.0000092	0.000092	0.000037	0.00046	0.0027
		September		0.023	0.000066	0.00094	0.68	0.0027	0.0000047	0.000057	0.00065	0.38	0.000047	0.0000093	0.52	0.013	0.0000093	0.000093	0.000037	0.00047	0.0027
		October		0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000084	0.00096	0.56	0.000069	0.000014	0.77	0.02	0.000014	0.00014	0.000055	0.00069	0.004
		November		0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000084	0.00096	0.56	0.000069	0.000014	0.77	0.02	0.000014	0.00014	0.000055	0.00069	0.004
		December		0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000084	0.00096	0.56	0.000069	0.000014	0.77	0.02	0.000014	0.00014	0.000055	0.00069	0.004
		January	2030	0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000084	0.00096	0.56	0.000069	0.000014	0.77	0.02	0.000014	0.00014	0.000055	0.00069	0.004
		February		0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000084	0.00096	0.56	0.000069	0.000014	0.77	0.02	0.000014	0.00014	0.000055	0.00069	0.004
		March		0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000084	0.00096	0.56	0.000069	0.000014	0.77	0.02	0.000014	0.00014	0.000055	0.00069	0.004
		April		0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000084	0.00096	0.56	0.000069	0.000014	0.77	0.02	0.000014	0.00014	0.000055	0.00069	0.004
		May		0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000084	0.00096	0.56	0.000069	0.000014	0.77	0.02	0.000014	0.00014	0.000055	0.00069	0.004
		June		0.027	0.000077	0.0011	0.79	0.0031	0.0000054	0.000066	0.00075	0.44	0.000054	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00054	0.0031
		July		0.022	0.000063	0.0009	0.65	0.0026	0.0000045	0.000054	0.00062	0.36	0.000045	0.0000089	0.5	0.013	0.0000089	0.00009	0.000035	0.00045	0.0026
		August		0.023	0.000065	0.00093	0.67	0.0026	0.0000046	0.000055	0.00064	0.37	0.000046	0.0000092	0.51	0.013	0.0000092	0.000092	0.000036	0.00046	0.0027
		September		0.023	0.000066	0.00094	0.68	0.0027	0.0000047	0.000055	0.00065	0.38	0.000047	0.0000093	0.52	0.013	0.0000093	0.000093	0.000037	0.00047	0.0027
		October		0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000082	0.00095	0.56	0.000069	0.000014	0.77	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		November		0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000082	0.00095	0.56	0.000069	0.000014	0.77	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		December		0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000082	0.00095	0.56	0.000069	0.000014	0.77	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		January	2031	0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000082	0.00095	0.56	0.000069	0.000014	0.77	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		February		0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000082	0.00095	0.56	0.000069	0.000014	0.77	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		March		0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000082	0.00095	0.56	0.000069	0.000014	0.77	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		April		0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000082	0.00095	0.56	0.000069	0.000014	0.77	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		May		0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000082	0.00095	0.56	0.000069	0.000014	0.77	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		June		0.027	0.000077	0.0011	0.79	0.0031	0.0000054	0.000064	0.00075	0.44	0.000054	0.000011	0.6</						

Site and Downstream Water Quality Model Predictions
Whale Tail Approved Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ⁶ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1
CCME (CEQG-PAL (chronic)) ⁷ (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004			0.002	
LOCATION	Time Period	Month	Year	TDS mg/L	Acidity mg/L	Alkalinity mg/L	Cl mg/L	F mg/L	SO4 mg/L	NH3 (as N) mg N/L	NO3 mg N/L	P _{total} ³ mg/L	Al ⁴ mg/L	Sb mg/L	As ² mg/L	Ba mg/L	Be mg/L	Bi mg/L	B mg/L	Cd ⁵ mg/L	Ca mg/L	Cr mg/L	Co mg/L	Cu ⁶ mg/L
Whale Tail Lake (South Basin)	Closure, controlled discharge from pit lake	January	2032	14	0.0000015	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		February		14	0.0000015	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		March		14	0.0000015	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		April		14	0.0000015	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		May		14	0.0000015	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		June		11	0.00000093	5.0	2.8	0.029	1.5	0.0066	0.0058	0.0026	0.011	0.00011	0.00019	0.0045	0.000022	0.000054	0.011	0.0000054	2.3	0.00012	0.00011	0.00056
		July		9.4	0.00000054	4.1	2.3	0.024	1.2	0.0054	0.0048	0.0021	0.0094	0.000089	0.00015	0.0037	0.000018	0.000045	0.009	0.0000045	1.9	0.0001	0.000089	0.00046
		August		9.7	0.00000047	4.2	2.4	0.024	1.3	0.0056	0.0049	0.0022	0.0096	0.000092	0.00016	0.0038	0.000018	0.000046	0.0092	0.0000046	1.9	0.00011	0.000092	0.00047
		September		9.8	0.0000004	4.3	2.4	0.025	1.3	0.0057	0.005	0.0022	0.0098	0.000093	0.00016	0.0039	0.000019	0.000047	0.0093	0.0000047	1.9	0.00011	0.000093	0.00048
		October		14	0.00000054	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		November		14	0.00000054	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		December		14	0.00000054	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		January	2033	14	0.00000054	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		February		14	0.00000054	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		March		14	0.00000054	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		April		14	0.00000054	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		May		14	0.00000054	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		June		11	0.00000035	5.0	2.8	0.029	1.5	0.0066	0.0058	0.0026	0.011	0.00011	0.00019	0.0045	0.000022	0.000054	0.011	0.0000054	2.3	0.00012	0.00011	0.00056
		July		9.4	0.00000002	4.1	2.3	0.024	1.2	0.0054	0.0047	0.0021	0.0094	0.000089	0.00015	0.0037	0.000018	0.000045	0.0089	0.0000045	1.9	0.0001	0.000089	0.00046
		August		9.6	0.00000018	4.2	2.4	0.024	1.3	0.0056	0.0049	0.0022	0.0096	0.000092	0.00016	0.0038	0.000018	0.000046	0.0092	0.0000046	1.9	0.00011	0.000092	0.00047
		September		9.8	0.00000015	4.3	2.4	0.025	1.3	0.0057	0.0049	0.0022	0.0098	0.000093	0.00016	0.0039	0.000019	0.000047	0.0093	0.0000047	1.9	0.00011	0.000093	0.00048
		October		14	0.00000002	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		November		14	0.00000002	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		December		14	0.00000002	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		January	2034	14	0.00000002	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		February		14	0.00000002	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		March		14	0.00000002	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		April		14	0.00000002	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		May		14	0.00000002	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		June		11	0.00000013	5.0	2.8	0.029	1.5	0.0066	0.0058	0.0026	0.011	0.00011	0.00019	0.0045	0.000022	0.000054	0.011	0.0000054	2.3	0.00012	0.00011	0.00056
		July		9.4	7.5E-08	4.1	2.3	0.024	1.2	0.0054	0.0047	0.0021	0.0094	0.000089	0.00015	0.0037	0.000018	0.000045	0.0089	0.0000045	1.9	0.0001	0.000089	0.00046
		August		9.6	6.6E-08	4.2	2.4	0.024	1.3	0.0056	0.0049	0.0022	0.0096	0.000092	0.00016	0.0038	0.000018	0.000046	0.0092	0.0000046	1.9	0.00011	0.000092	0.00047
		September		9.8	5.7E-08	4.3	2.4	0.025	1.3	0.0057	0.0049	0.0022	0.0098	0.000093	0.00016	0.0039	0.000019	0.000047	0.0093	0.0000047	1.9	0.00011	0.000093	0.00048
		October		14	7.6E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		November		14	7.6E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		December		14	7.6E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		January	2035	14	7.6E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		February		14	7.6E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		March		14	7.6E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		April		14	7.6E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		May		14	7.6E-08	6.3	3.6	0.036</																

Site and Downstream Water Quality Model Predictions
Whale Tail Approved Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05					0.004		0.25									0.1
CCME (CEQG-PAL (chronic)) ² (mg/L)				0.3	0.001					0.000026	0.073	0.025		0.001	0.00025		0.0008		0.015	0.12	0.007
Constituent				Fe	Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Lake (South Basin)	Closure, controlled discharge from pit lake	January	2032	0.034	0.000098	0.0014	1.0	0.0039	0.000069	0.000081	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		February		0.034	0.000098	0.0014	1.0	0.0039	0.000069	0.000081	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		March		0.034	0.000098	0.0014	1.0	0.0039	0.000069	0.000081	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		April		0.034	0.000098	0.0014	1.0	0.0039	0.000069	0.000081	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		May		0.034	0.000098	0.0014	1.0	0.0039	0.000069	0.000081	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		June		0.027	0.000077	0.0011	0.79	0.0031	0.000054	0.000063	0.00075	0.44	0.000054	0.000011	0.6	0.015	0.000011	0.00011	0.000042	0.00054	0.0031
		July		0.022	0.000063	0.0009	0.65	0.0026	0.000045	0.000052	0.00062	0.36	0.000045	0.0000089	0.5	0.013	0.0000089	0.00009	0.000035	0.00045	0.0026
		August		0.023	0.000065	0.00093	0.66	0.0026	0.000046	0.000054	0.00064	0.37	0.000046	0.0000092	0.51	0.013	0.0000092	0.000092	0.000036	0.00046	0.0027
		September		0.023	0.000066	0.00094	0.68	0.0027	0.000047	0.000054	0.00065	0.38	0.000047	0.0000093	0.52	0.013	0.0000093	0.000093	0.000036	0.00047	0.0027
		October		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		November		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		December		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		January	2033	0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		February		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		March		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		April		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		May		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		June		0.027	0.000077	0.0011	0.79	0.0031	0.000054	0.000063	0.00075	0.44	0.000054	0.000011	0.6	0.015	0.000011	0.00011	0.000042	0.00054	0.0031
		July		0.022	0.000063	0.0009	0.65	0.0026	0.000045	0.000052	0.00062	0.36	0.000045	0.0000089	0.5	0.013	0.0000089	0.00009	0.000035	0.00045	0.0026
		August		0.023	0.000065	0.00093	0.66	0.0026	0.000046	0.000053	0.00063	0.37	0.000046	0.0000092	0.51	0.013	0.0000092	0.000092	0.000036	0.00046	0.0027
		September		0.023	0.000066	0.00094	0.68	0.0027	0.000047	0.000054	0.00065	0.38	0.000047	0.0000093	0.52	0.013	0.0000093	0.000093	0.000036	0.00047	0.0027
		October		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		November		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		December		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		January	2034	0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		February		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		March		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		April		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		May		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		June		0.027	0.000077	0.0011	0.79	0.0031	0.000054	0.000063	0.00075	0.44	0.000054	0.000011	0.6	0.015	0.000011	0.00011	0.000042	0.00054	0.0031
		July		0.022	0.000063	0.0009	0.65	0.0026	0.000045	0.000052	0.00062	0.36	0.000045	0.0000089	0.5	0.013	0.0000089	0.00009	0.000035	0.00045	0.0026
		August		0.023	0.000065	0.00093	0.66	0.0026	0.000046	0.000053	0.00063	0.37	0.000046	0.0000092	0.51	0.013	0.0000092	0.000092	0.000036	0.00046	0.0027
		September		0.023	0.000066	0.00094	0.68	0.0027	0.000047	0.000054	0.00065	0.38	0.000047	0.0000093	0.52	0.013	0.0000093	0.000093	0.000036	0.00047	0.0027
		October		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		November		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		December		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		January	2035	0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		February		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		March		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		April		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		May		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		June		0.027	0.000077	0.0011	0.79	0.0031	0.000054	0.000063	0.00075	0.44	0.000054	0.000011	0.6	0.015	0.000011	0.00011	0.000042	0.00054	0.0031
		July		0.022	0.000063	0.0009	0.65	0.0026	0.000045	0.000052	0.00062	0.36	0.000045	0.0000089	0.5	0.013	0.0000089	0.00009	0.000035	0.00045	0.0026
		August		0.023	0.000065	0.00093	0.66	0.0026	0.000046	0.000053	0.00063	0.37	0.000046	0.0000092	0.51	0.013	0.0000092	0.000092	0.000036	0.00046	0.0027
		September		0.023	0.000066	0.00094	0.68	0.0027	0.000047	0.000054	0.00065	0.38	0.000047	0.0000093	0.52	0.013	0.0000093	0.000093	0.000036	0.00047	0.0027
		October		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		November		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069</								

Site and Downstream Water Quality Model Predictions
Whale Tail Approved Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		2.93	0.3	0.5		0.1					1.5	0.002		0.02		0.1	
CCME (CEQG-PAL [chronic]) ² (mg/L)							120	0.12					0.01	0.1		0.025					0.00004				0.002		
LOCATION	Time Period	Month	Year	TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁵	Ca	Cr	Co	Cu ⁶			
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
Whale Tail Lake (South Basin)	Closure, controlled discharge from pit lake	January	2037	14	1.1E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.000069	2.9	0.00016	0.00014	0.00071			
		February		14	1.1E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.000069	2.9	0.00016	0.00014	0.00071			
		March		14	1.1E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.000069	2.9	0.00016	0.00014	0.00071			
		April		14	1.1E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.000069	2.9	0.00016	0.00014	0.00071			
		May		14	1.1E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.000069	2.9	0.00016	0.00014	0.00071			
		June		11	0	5.0	2.8	0.029	1.5	0.0066	0.0057	0.0026	0.011	0.00011	0.00019	0.0045	0.000022	0.000054	0.011	0.000054	2.3	0.00012	0.00011	0.00056			
		July		9.4	0	4.1	2.3	0.024	1.2	0.0054	0.0047	0.0021	0.0094	0.000089	0.00015	0.0037	0.000018	0.000045	0.0089	0.000045	1.9	0.0001	0.000089	0.00046			
		August		9.6	0	4.2	2.4	0.024	1.3	0.0056	0.0049	0.0022	0.0096	0.000092	0.00016	0.0038	0.000018	0.000046	0.0092	0.000046	1.9	0.00011	0.000092	0.00047			
		September		9.8	0	4.3	2.4	0.025	1.3	0.0057	0.0049	0.0022	0.0098	0.000093	0.00016	0.0039	0.000019	0.000047	0.0093	0.000047	1.9	0.00011	0.000093	0.00048			
		October		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.000069	2.9	0.00016	0.00014	0.00071			
		November		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.000069	2.9	0.00016	0.00014	0.00071			
		December		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.000069	2.9	0.00016	0.00014	0.00071			
		January	2038	14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.000069	2.9	0.00016	0.00014	0.00071			
		February		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.000069	2.9	0.00016	0.00014	0.00071			
		March		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.000069	2.9	0.00016	0.00014	0.00071			
		April		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.000069	2.9	0.00016	0.00014	0.00071			
		May		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.000069	2.9	0.00016	0.00014	0.00071			
		June		11	0	5.0	2.8	0.029	1.5	0.0066	0.0057	0.0026	0.011	0.00011	0.00019	0.0045	0.000022	0.000054	0.011	0.000054	2.3	0.00012	0.00011	0.00056			
		July		9.4	0	4.1	2.3	0.024	1.2	0.0054	0.0047	0.0021	0.0094	0.000089	0.00015	0.0037	0.000018	0.000045	0.0089	0.000045	1.9	0.0001	0.000089	0.00046			
		August		9.6	0	4.2	2.4	0.024	1.3	0.0056	0.0049	0.0022	0.0096	0.000092	0.00016	0.0038	0.000018	0.000046	0.0092	0.000046	1.9	0.00011	0.000092	0.00047			
		September		9.8	0	4.3	2.4	0.025	1.3	0.0057	0.0049	0.0022	0.0098	0.000093	0.00016	0.0039	0.000019	0.000047	0.0093	0.000047	1.9	0.00011	0.000093	0.00048			
		October		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.000069	2.9	0.00016	0.00014	0.00071			
		November		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.000069	2.9	0.00016	0.00014	0.00071			
		December		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.000069	2.9	0.00016	0.00014	0.00071			
		January	2039	14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.000069	2.9	0.00016	0.00014	0.00071			
		February		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.000069	2.9	0.00016	0.00014	0.00071			
		March		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.000069	2.9	0.00016	0.00014	0.00071			
		April		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.000069	2.9	0.00016	0.00014	0.00071			
		May		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.000069	2.9	0.00016	0.00014	0.00071			
		June		11	0	5.0	2.8	0.029	1.5	0.0066	0.0057	0.0026	0.011	0.00011	0.00019	0.0045	0.000022	0.000054	0.011	0.000054	2.3	0.00012	0.00011	0.00056			
		July		9.4	0	4.1	2.3	0.024	1.2	0.0054	0.0047	0.0021	0.0094	0.000089	0.00015	0.0037	0.000018	0.000045	0.0089	0.000045	1.9	0.0001	0.000089	0.00046			
		August		9.6	0	4.2	2.4	0.024	1.3	0.0056	0.0049	0.0022	0.0096	0.000092	0.00016	0.0038	0.000018	0.000046	0.0092	0.000046	1.9	0.00011	0.000092	0.00047			
		September		9.8	0	4.3	2.4	0.025	1.3	0.0057	0.0049	0.0022	0.0098	0.000093	0.00016	0.0039	0.000019	0.000047	0.0093	0.000047	1.9	0.00011	0.000093	0.00048			
		October		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.000069	2.9	0.00016	0.00014	0.00071			
		November		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.000069	2.9	0.00016	0.00014	0.00071			
		December		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.000069	2.9	0.00016	0.00014	0.00071			
		MINIMUM				9.4	0	4.1	2.3	0.024	1.2	0.0054	0.0047	0.0021	0.0094	0.000089	0.00015	0.0037	0.000018	0.000045	0.0089	0.000045	1.9	0.0001	0.000089	0.00046	
		MAXIMUM				15	0.000073	6.4	3.9	0.037	1.9	0.0095	0.0094	0.0034	0.015	0.00014	0.00025	0.0059	0.000028	0.000069	0.014	0.000007	2.9	0.00018	0.00014	0.00072	
		AVERAGE				13	0.0000087	5.6	3.2	0.033	1.7	0.0076	0.0068	0.0029	0.013	0.00012	0.00021	0.0052	0.000025	0.000062	0.012	0.0000062	2.6	0.00014	0.00012	0.00064	

Notes:
¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells
²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEQG's shown in bold-underlined type
³CEQG Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed
⁴CEQG Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.
⁶CEQG Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 11 mg/L.
⁷ The CEQG aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

Site and Downstream Water Quality Model Predictions
Whale Tail Approved Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05				0.004		0.25											
CCME (CEQG-PAL (chronic)) ² (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	0.007	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	Hg	Mo	Ni ³	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn	
Whale Tail Lake (South Basin)	Closure, controlled discharge from pit lake	January	2037	0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004	
		February		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004	
		March		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004	
		April		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004	
		May		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004	
		June		0.027	0.000077	0.0011	0.79	0.0031	0.000054	0.000063	0.00075	0.44	0.000054	0.000011	0.6	0.015	0.000011	0.00011	0.000042	0.00054	0.0031	
		July		0.022	0.000063	0.0009	0.65	0.0026	0.000045	0.000052	0.00062	0.36	0.000045	0.0000089	0.5	0.013	0.0000089	0.00009	0.000035	0.00045	0.0026	
		August		0.023	0.000065	0.00093	0.66	0.0026	0.000046	0.000053	0.00063	0.37	0.000046	0.0000092	0.51	0.013	0.0000092	0.000092	0.000036	0.00046	0.0027	
		September		0.023	0.000066	0.00094	0.68	0.0027	0.000047	0.000054	0.00065	0.38	0.000047	0.0000093	0.52	0.013	0.0000093	0.000093	0.000036	0.00047	0.0027	
		October		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004	
		November		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004	
		December		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004	
		January	2038	0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004	
		February		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004	
		March		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004	
		April		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004	
		May		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004	
		June		0.027	0.000077	0.0011	0.79	0.0031	0.000054	0.000063	0.00075	0.44	0.000054	0.000011	0.6	0.015	0.000011	0.00011	0.000042	0.00054	0.0031	
		July		0.022	0.000063	0.0009	0.65	0.0026	0.000045	0.000052	0.00062	0.36	0.000045	0.0000089	0.5	0.013	0.0000089	0.00009	0.000035	0.00045	0.0026	
		August		0.023	0.000065	0.00093	0.66	0.0026	0.000046	0.000053	0.00063	0.37	0.000046	0.0000092	0.51	0.013	0.0000092	0.000092	0.000036	0.00046	0.0027	
		September		0.023	0.000066	0.00094	0.68	0.0027	0.000047	0.000054	0.00065	0.38	0.000047	0.0000093	0.52	0.013	0.0000093	0.000093	0.000036	0.00047	0.0027	
		October		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004	
		November		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004	
		December		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004	
		January	2039	0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004	
		February		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004	
		March		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004	
		April		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004	
		May		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004	
		June		0.027	0.000077	0.0011	0.79	0.0031	0.000054	0.000063	0.00075	0.44	0.000054	0.000011	0.6	0.015	0.000011	0.00011	0.000042	0.00054	0.0031	
		July		0.022	0.000063	0.0009	0.65	0.0026	0.000045	0.000052	0.00062	0.36	0.000045	0.0000089	0.5	0.013	0.0000089	0.00009	0.000035	0.00045	0.0026	
		August		0.023	0.000065	0.00092	0.66	0.0026	0.000046	0.000053	0.00063	0.37	0.000046	0.0000092	0.51	0.013	0.0000092	0.000092	0.000036	0.00046	0.0027	
		September		0.023	0.000066	0.00094	0.68	0.0027	0.000047	0.000054	0.00065	0.38	0.000047	0.0000093	0.52	0.013	0.0000093	0.000093	0.000036	0.00047	0.0027	
		October		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004	
		November		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004	
		December		0.034	0.000097	0.0014	1.0	0.0039	0.000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004	
		MINIMUM			0.022	0.000063	0.0009	0.65	0.0026	0.000045	0.000052	0.00062	0.36	0.000045	0.0000089	0.5	0.013	0.0000089	0.000089	0.000035	0.00045	0.0026
		MAXIMUM			0.036	0.000099	0.0014	1.0	0.0043	0.000069	0.00011	0.00097	0.56	0.00007	0.000014	0.83	0.02	0.000014	0.00014	0.000063	0.00069	0.004
		AVERAGE			0.031	0.000087	0.0012	0.9	0.0036	0.000062	0.000075	0.00086	0.5	0.000062	0.000012	0.69	0.018	0.000012	0.00012	0.000049	0.00062	0.0036

Notes:
¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells
²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEQG's shown in bold-underlined type
³CEQG Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed
⁴CEQG Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.
⁵CEQG Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 11 mg/L.
⁷ The CEQG aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

Whale Tail Effluent Quality Criteria maximum average ^a (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1		
CCME (CEQG-PAL [chronic]) ^b (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004				0.002		
LOCATION	Time Period	Month	Year	Constituent	TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁸	Ca	Cr	Co	Cu ⁸	
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Downstream Node 1 (DS1)	Construction and Operations	January	2018		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June			11	0.00000046	5.6	1.4	0.027	2.2	0.0055	0.0076	0.0026	0.02	0.0001	0.00032	0.0042	0.00002	0.000051	0.01	0.0000059	2.0	0.00034	0.00012	0.00054	
		July			11	0.0000024	5.6	1.6	0.027	2.2	0.0057	0.0079	0.0032	0.038	0.0001	0.00056	0.0045	0.000021	0.000052	0.01	0.000006	2.1	0.00084	0.00015	0.00057	
		August			11	0.0000023	5.7	1.6	0.028	2.2	0.0057	0.008	0.0032	0.037	0.00011	0.00055	0.0045	0.000021	0.000052	0.01	0.0000061	2.1	0.0008	0.00014	0.00058	
		September			11	0.0000026	5.7	1.5	0.028	2.2	0.0056	0.0079	0.0031	0.036	0.0001	0.00053	0.0044	0.000021	0.000052	0.01	0.000006	2.1	0.00077	0.00014	0.00057	
		October			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		November			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2019		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June			11	0.0000023	5.6	1.4	0.027	2.1	0.0055	0.0076	0.0028	0.028	0.0001	0.00042	0.0042	0.000021	0.000051	0.01	0.0000059	2.0	0.00056	0.00013	0.00055	
		July			11	0.000003	5.6	1.4	0.027	2.1	0.0055	0.0077	0.0028	0.029	0.0001	0.00043	0.0042	0.000021	0.000051	0.01	0.0000059	2.0	0.00059	0.00013	0.00055	
		August			11	0.0000066	5.7	1.5	0.028	2.2	0.0057	0.008	0.0032	0.038	0.0001	0.00056	0.0045	0.000021	0.000052	0.01	0.0000061	2.1	0.00084	0.00015	0.00058	
		September			12	0.00016	5.7	1.7	0.028	2.2	0.0058	0.0088	0.0033	0.042	0.0001	0.00061	0.0047	0.000022	0.000052	0.01	0.0000061	2.2	0.00095	0.00015	0.00058	
		October			12	0.00084	5.7	2.2	0.028	2.2	0.0061	0.011	0.0035	0.048	0.0001	0.0007	0.0051	0.000023	0.000052	0.01	0.000006	2.4	0.0011	0.00016	0.00059	
		November			13	0.0019	5.6	2.6	0.028	2.2	0.0063	0.014	0.0038	0.055	0.0001	0.0008	0.0054	0.000023	0.000051	0.01	0.000006	2.6	0.0013	0.00017	0.00059	
		December			14	0.0037	5.8	3.0	0.029	2.3	0.0068	0.019	0.0041	0.06	0.00011	0.0009	0.0058	0.000024	0.000052	0.011	0.0000061	2.8	0.0015	0.00018	0.00061	
		January	2020		14	0.004	5.8	3.1	0.029	2.3	0.0069	0.019	0.0041	0.061	0.00011	0.00091	0.0059	0.000024	0.000052	0.011	0.0000061	2.8	0.0015	0.00018	0.00061	
		February			14	0.004	5.8	3.1	0.029	2.3	0.0069	0.019	0.0041	0.061	0.00011	0.00091	0.0059	0.000024	0.000052	0.011	0.0000061	2.8	0.0015	0.00018	0.00061	
		March			14	0.004	5.8	3.1	0.029	2.3	0.0069	0.019	0.0041	0.061	0.00011	0.00091	0.0059	0.000024	0.000052	0.011	0.0000061	2.8	0.0015	0.00018	0.00061	
		April			14	0.004	5.8	3.1	0.029	2.3	0.0069	0.02	0.0041	0.061	0.00011	0.00091	0.0059	0.000024	0.000052	0.011	0.0000061	2.8	0.0015	0.00018	0.00061	
		May			14	0.004	5.8	3.1	0.029	2.3	0.0069	0.02	0.0041	0.061	0.00011	0.00091	0.0059	0.000024	0.000052	0.011	0.0000061	2.8	0.0015	0.00018	0.00061	
		June			14	0.012	6.0	3.2	0.029	2.4	0.0078	0.038	0.0035	0.036	0.00011	0.00066	0.0055	0.000023	0.000051	0.012	0.0000062	2.8	0.00077	0.00015	0.00057	
		July			19	0.032	6.7	5.0	0.031	2.8	0.011	0.088	0.0042	0.032	0.00011	0.00085	0.0066	0.000025	0.000051	0.014	0.0000069	3.4	0.00069	0.00015	0.0006	
		August			21	0.043	7.1	6.2	0.033	3.0	0.013	0.12	0.0048	0.036	0.00012	0.001	0.0073	0.000026	0.000053	0.016	0.0000074	3.8	0.00079	0.00017	0.00063	
		September			21	0.044	7.2	6.3	0.034	3.0	0.014	0.13	0.0049	0.034	0.00012	0.001	0.0073	0.000026	0.000053	0.016	0.0000075	3.8	0.00074	0.00017	0.00063	
		October			23	0.05	7.4	6.9	0.034	3.1	0.015	0.15	0.0052	0.035	0.00012	0.0012	0.0076	0.000026	0.000053	0.017	0.0000078	4.0	0.00078	0.00017	0.00064	
		November			23	0.053	7.5	7.3	0.035	3.2	0.016	0.15	0.0054	0.037	0.00012	0.0012	0.0078	0.000026	0.000053	0.018	0.0000079	4.1	0.00082	0.00018	0.00064	
		December			24	0.056	7.6	7.6	0.035	3.2	0.016	0.16	0.0056	0.038	0.00012	0.0013	0.008	0.000026	0.000053	0.018	0.000008	4.2	0.00085	0.00018	0.00065	
		January	2021		25	0.059	7.7	7.9	0.036	3.3	0.017	0.17	0.0057	0.039	0.00012	0.0014	0.0082	0.000027	0.000053	0.019	0.0000081	4.3	0.00088	0.00018	0.00066	
		February			25	0.061	7.8	8.2	0.036	3.3	0.017	0.18	0.0059	0.04	0.00012	0.0014	0.0084	0.000027	0.000053	0.019	0.0000082	4.4	0.00091	0.00019	0.00066	
		March			26	0.064	7.9	8.4	0.036	3.4	0.018	0.18	0.006	0.041	0.00012	0.0015	0.0085	0.000027	0.000053	0.02	0.0000083	4.5	0.00094	0.00019	0.00067	
		April			27	0.067	8.0	8.7	0.037	3.4	0.018	0.19	0.0062	0.042	0.00013	0.0015	0.0087	0.000027	0.000053	0.02	0.0000084	4.6	0.00097	0.00019	0.00067	
		May			27	0.069	8.0	9.0	0.037	3.5	0.019	0.2	0.0063	0.043	0.00013	0.0016	0.0089	0.000028	0.000053	0.02	0.0000085	4.7	0.001	0.0002	0.00068	
		June			19	0.038	6.9	5.3	0.032	2.8	0.013	0.11	0.0045	0.028	0.00012	0.0011	0.0064	0.000024	0.000051	0.016	0.0000073	3.3	0.00057	0.00015	0.0006	
		July			19	0.037	7.0	5.1	0.032	2.9	0.013	0.11	0.0046	0.027	0.00012	0.0014	0.0063	0.000023	0.000052	0.017	0.0000074	3.2	0.00055	0.00016	0.00061	
		August			22	0.048	7.6	6.4	0.035	3.1	0.015	0.14	0.0055	0.032	0.00013	0.0019	0.0071	0.000024	0.000053	0.019	0.0000081	3.7	0.00069	0.00018	0.00065	
		September			22	0.048	7.6	6.5	0.035	3.2	0.015	0.14	0.0056	0.032	0.00013	0.002	0.0071	0.000024	0.000053	0.02	0.0000082	3.7	0.00071	0.00018	0.00066	
		October			24	0.053	7.9	7.1	0.036	3.3	0.017	0.16	0.0061	0.035	0.00014	0.0023	0.0074	0.000024	0.000053	0.021	0.0000085	3.8	0.00078	0.00019	0.00067	
		November			24	0.056	8.0	7.4	0.036	3.4	0.017	0.17	0.0063	0.036	0.00014	0.0024	0.0076	0.000024	0.00005							

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05					0.004		0.25								0.1		
CCME (CEQG-PAL (chronic)) ² (mg/L)				0.3	0.001					0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	0.007
Constituent				Fe	Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Downstream Node 1 (DS1)	Construction and Operations	January	2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.052	0.000084	0.001	0.67	0.0019	0.0000051	0.000053	0.000069	0.49	0.000051	0.00001	0.65	0.0096	0.00001	0.0001	0.000031	0.00053	0.003	
		July		0.09	0.000091	0.0011	0.72	0.0026	0.0000051	0.000055	0.000094	0.51	0.000052	0.000011	0.65	0.011	0.000011	0.0001	0.000032	0.00058	0.003	
		August		0.088	0.000092	0.0011	0.72	0.0025	0.0000052	0.000055	0.000093	0.52	0.000052	0.000011	0.66	0.011	0.000011	0.0001	0.000033	0.00059	0.003	
		September		0.085	0.000091	0.0011	0.71	0.0025	0.0000052	0.000055	0.000091	0.51	0.000052	0.000011	0.66	0.01	0.000011	0.0001	0.000032	0.00058	0.003	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2019	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.069	0.000087	0.001	0.68	0.0021	0.0000051	0.000053	0.000079	0.49	0.000051	0.000011	0.65	0.0095	0.00001	0.0001	0.000031	0.00055	0.003	
		July		0.072	0.000087	0.001	0.68	0.0022	0.0000051	0.000053	0.00008	0.5	0.000051	0.000011	0.65	0.0096	0.00001	0.0001	0.000032	0.00055	0.003	
		August		0.091	0.000092	0.0011	0.71	0.0025	0.0000052	0.000056	0.000094	0.51	0.000052	0.000011	0.66	0.01	0.000011	0.0001	0.000033	0.00059	0.003	
		September		0.099	0.000093	0.0011	0.73	0.0027	0.0000052	0.000059	0.0010	0.52	0.000052	0.000011	0.67	0.011	0.000011	0.0001	0.000033	0.0006	0.003	
		October		0.11	0.000094	0.0012	0.78	0.003	0.0000051	0.000067	0.0011	0.55	0.000052	0.000012	0.68	0.013	0.000011	0.0001	0.000035	0.00061	0.0029	
		November		0.12	0.000095	0.0012	0.81	0.0033	0.0000051	0.000076	0.0012	0.56	0.000051	0.000012	0.69	0.015	0.000011	0.0001	0.000037	0.00062	0.0029	
		December		0.14	0.000099	0.0013	0.86	0.0037	0.0000051	0.000092	0.0013	0.59	0.000053	0.000012	0.73	0.017	0.000011	0.0001	0.000041	0.00064	0.0029	
		January	2020	0.14	0.000099	0.0013	0.87	0.0038	0.0000051	0.000094	0.0013	0.59	0.000053	0.000012	0.74	0.017	0.000011	0.0001	0.000042	0.00064	0.0029	
		February		0.14	0.000099	0.0013	0.87	0.0038	0.0000051	0.000095	0.0013	0.59	0.000053	0.000012	0.74	0.017	0.000011	0.0001	0.000042	0.00064	0.0029	
		March		0.14	0.000099	0.0013	0.87	0.0038	0.0000051	0.000095	0.0013	0.59	0.000053	0.000012	0.74	0.017	0.000011	0.0001	0.000042	0.00064	0.0029	
		April		0.14	0.000099	0.0013	0.87	0.0038	0.0000051	0.000095	0.0013	0.59	0.000053	0.000012	0.74	0.017	0.000011	0.0001	0.000042	0.00064	0.0029	
		May		0.14	0.000099	0.0013	0.87	0.0038	0.0000051	0.000095	0.0013	0.59	0.000053	0.000012	0.74	0.017	0.000011	0.0001	0.000042	0.00064	0.0029	
		June		0.085	0.000091	0.0013	0.86	0.0036	0.0000051	0.00015	0.00098	0.58	0.000053	0.000011	0.85	0.017	0.000011	0.0001	0.000058	0.00057	0.003	
		July		0.078	0.000096	0.0014	1.1	0.0055	0.0000051	0.00031	0.001	0.65	0.000058	0.000011	1.2	0.022	0.000011	0.0001	0.0001	0.00057	0.0031	
		August		0.086	0.0001	0.0016	1.2	0.0068	0.0000052	0.0004	0.0012	0.7	0.000062	0.000012	1.4	0.026	0.000011	0.0001	0.00013	0.00059	0.0031	
		September		0.083	0.0001	0.0016	1.2	0.0072	0.0000052	0.00043	0.0011	0.69	0.000063	0.000012	1.4	0.026	0.000011	0.0001	0.00014	0.00058	0.0031	
		October		0.085	0.0001	0.0016	1.3	0.0081	0.0000052	0.00049	0.0012	0.71	0.000064	0.000012	1.6	0.027	0.000011	0.0001	0.00016	0.00058	0.0031	
		November		0.088	0.00011	0.0016	1.3	0.0085	0.0000052	0.00052	0.0012	0.72	0.000065	0.000012	1.6	0.028	0.000011	0.0001	0.00017	0.00059	0.0032	
		December		0.091	0.00011	0.0017	1.4	0.0089	0.0000052	0.00054	0.0013	0.73	0.000066	0.000012	1.7	0.029	0.000011	0.00011	0.00017	0.00059	0.0032	
		January	2021	0.093	0.00011	0.0017	1.4	0.0093	0.0000053	0.00057	0.0013	0.74	0.000067	0.000012	1.7	0.03	0.000011	0.00011	0.00018	0.00059	0.0032	
		February		0.095	0.00011	0.0017	1.4	0.0097	0.0000053	0.00059	0.0013	0.75	0.000068	0.000012	1.8	0.031	0.000011	0.00011	0.00019	0.0006	0.0032	
		March		0.097	0.00011	0.0017	1.5	0.01	0.0000053	0.00061	0.0013	0.76	0.000068	0.000012	1.8	0.032	0.000011	0.00011	0.00019	0.0006	0.0032	
		April		0.10	0.00011	0.0018	1.5	0.01	0.0000053	0.00064	0.0014	0.77	0.000069	0.000012	1.9	0.033	0.000011	0.00011	0.0002	0.00061	0.0032	
		May		0.1	0.00011	0.0018	1.5	0.011	0.0000053	0.00066	0.0014	0.78	0.00007	0.000012	1.9	0.034	0.000011	0.00011	0.00021	0.00061	0.0032	
		June		0.069	0.000099	0.0014	1.1	0.0068	0.0000051	0.00039	0.001	0.63	0.000062	0.000011	1.4	0.021	0.000011	0.0001	0.00013	0.00056	0.0031	
		July		0.068	0.0001	0.0014	1.1	0.0075	0.0000052	0.0004	0.001	0.63	0.000064	0.000011	1.4	0.02	0.000011	0.0001	0.00013	0.00056	0.0031	
		August		0.08	0.00011	0.0015	1.3	0.0096	0.0000053	0.00052	0.0012	0.68	0.00007	0.000012	1.7	0.024	0.000011	0.00011	0.00017	0.00059	0.0032	
		September		0.081	0.00011	0.0015	1.3	0.01	0.0000053	0.00054	0.0012	0.68	0.000071	0.000012	1.7	0.024	0.000011	0.00011	0.00018	0.00059	0.0032	
		October		0.087	0.00012	0.0015	1.4	0.011	0.0000053	0.0006	0.0012	0.7	0.000074	0.000012	1.8	0.025	0.000011	0.00011	0.00019	0.0006	0.0032	
		November		0.09	0.00012	0.0015	1.4	0.012	0.0000054	0.00063	0.0013	0.71	0.000075	0.000012	1.9	0.026	0.000011	0.00011	0.0002	0.0006	0.0033	
		December		0.093	0.00012	0.0016	1.4	0.012	0.0000054	0.00066	0.0013	0.72	0.000076	0.000012	2.0	0.027	0.000011	0.00011	0.00021	0.00061	0.0033	
		January	2022	0.096	0.00012	0.0016	1.5	0.013	0.0000054	0.00069	0.0014	0.73	0.000078	0.000012	2.0	0.028	0.000011	0.00011	0.00022	0.00061	0.0033	
		February		0.098	0.00012	0.0016	1.5	0.014	0.0000054	0.00072	0.0014	0.74	0.000079	0.000012	2.1	0.029	0.000011	0.00011	0.00023	0.00062	0.0033	
		March		0.1	0.00012	0.0016	1.5	0.014	0.0000054	0.00075	0.0014	0.75	0.00008	0.000012	2.2	0.029	0.000011	0.00011	0.00024	0.00062	0.0033	
		April		0.1	0.00013	0.0016	1.6	0.015	0.0000054	0.00078	0.0015	0.76	0.000081	0.000013	2.2	0.03	0.000011	0.00011	0.00025	0.00063	0.0033	
		May		0.11	0.00013	0.0017	1.6	0.015	0.0000055	0.0008	0.0015	0.77	0.000082	0.000013	2.3	0.031	0.000011	0.00011	0.00025	0.00063	0.0033	
		June		0.072	0.00011	0.0013	1.1	0.0087	0.0000052	0.00044	0.0011	0.63	0.000067	0.000011	1.5	0.02	0.000011	0.0001	0.00015	0.00057	0.0031	
		July		0.071	0.00011	0.0013	1.1	0.0085	0.0000052	0												

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1		
CCME (CEQG-PAL [chronic]) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004			0.002			
LOCATION	Time Period	Month	Year	Constituent	TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁸	Ca	Cr	Co	Cu ⁸	
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Downstream Node 1 (DS1)	Closure, no mine contact water discharge	August	2022		19	0.039	7.1	4.8	0.033	2.9	0.014	0.12	0.0049	0.027	0.00013	0.0021	0.0061	0.000023	0.000053	0.018	0.0000076	3.1	0.00058	0.00016	0.00063	
		September			17	0.031	6.8	4.0	0.032	2.8	0.012	0.093	0.0043	0.024	0.00013	0.0017	0.0056	0.000022	0.000052	0.016	0.0000073	2.8	0.00048	0.00015	0.00061	
		October			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2023		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June			14	0.019	6.3	2.8	0.029	2.5	0.0094	0.061	0.0035	0.019	0.00012	0.0011	0.0049	0.000021	0.000051	0.014	0.0000066	2.5	0.00034	0.00013	0.00057	
		July			13	0.014	6.1	2.4	0.029	2.4	0.0084	0.047	0.0032	0.017	0.00011	0.00089	0.0047	0.000021	0.000051	0.013	0.0000065	2.3	0.00028	0.00012	0.00056	
		August			13	0.013	6.2	2.3	0.029	2.4	0.0083	0.044	0.0032	0.017	0.00011	0.00084	0.0047	0.000021	0.000052	0.013	0.0000065	2.3	0.00027	0.00012	0.00056	
		September			13	0.014	6.2	2.4	0.029	2.4	0.0085	0.048	0.0032	0.018	0.00011	0.0009	0.0047	0.000021	0.000052	0.013	0.0000065	2.3	0.00028	0.00012	0.00057	
		October			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2024		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June			13	0.013	6.1	2.2	0.029	2.4	0.0082	0.043	0.0031	0.017	0.00011	0.00082	0.0046	0.000021	0.000051	0.013	0.0000064	2.3	0.00026	0.00012	0.00056	
		July			13	0.01	6.0	2.0	0.028	2.3	0.0077	0.037	0.0029	0.016	0.00011	0.00071	0.0045	0.000021	0.000051	0.012	0.0000063	2.2	0.00024	0.00012	0.00055	
		August			13	0.0097	6.1	2.0	0.029	2.4	0.0076	0.035	0.0029	0.016	0.00011	0.00068	0.0045	0.000021	0.000052	0.012	0.0000063	2.2	0.00023	0.00012	0.00056	
		September			13	0.011	6.1	2.1	0.029	2.4	0.0078	0.038	0.003	0.016	0.00011	0.00073	0.0045	0.000021	0.000052	0.012	0.0000064	2.3	0.00024	0.00012	0.00056	
		October			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2025		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June			12	0.01	6.0	2.0	0.028	2.3	0.0075	0.035	0.0029	0.016	0.00011	0.00069	0.0044	0.000021	0.000051	0.012	0.0000063	2.2	0.00023	0.00012	0.00055	
		July			12	0.0085	5.9	1.8	0.028	2.3	0.0072	0.03	0.0028	0.015	0.00011	0.0006	0.0044	0.000021	0.000051	0.012	0.0000062	2.2	0.00021	0.00011	0.00055	
		August			12	0.0079	6.0	1.8	0.028	2.3	0.0071	0.029	0.0028	0.015	0.00011	0.00058	0.0044	0.000021	0.000052	0.012	0.0000063	2.2	0.0002	0.00011	0.00055	
		September			12	0.0089	6.0	1.9	0.028	2.3	0.0073	0.031	0.0028	0.015	0.00011	0.00062	0.0044	0.000021	0.000052	0.012	0.0000063	2.2	0.00021	0.00012	0.00055	
		October			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2026		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June			12	0.0084	5.9	1.8	0.028	2.3	0.0071	0.029	0.0027	0.015	0.00011	0.00059	0.0043	0.000021	0.000051	0.012	0.0000062	2.1	0.0002	0.00011	0.00054	
		July			12	0.0071	5.9	1.7	0.028	2.3	0.0068	0.025	0.0027	0.014	0.00011	0.00053	0.0043	0.000021	0.000051	0.011	0.0000061	2.1	0.00018	0.00011	0.00054	
		August			12	0.0066	5.9	1.7	0.028	2.3	0.0068	0.024	0.0027	0.014	0.00011	0.0005	0.0043	0.000021	0.000052	0.011	0.0000062	2.1	0.00018	0.00011	0.00055	
		September			12	0.0075	5.9	1.7	0.028	2.3	0.0069	0.026	0.0027	0.014	0.00011	0.00054	0.0043	0.000021	0.000052	0.011	0.0000062	2.1	0.00019	0.00011	0.00055	
		October			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2027		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May			0	0</																				

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05					0.004		0.25											
CCME (CEQG-PAL (chronic)) ² (mg/L)				0.3	0.001					0.000026	0.073	0.025		0.001	0.00025		0.0008		0.015	0.12	0.007		
Constituent				Fe	Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁸	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn		
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
Downstream Node 1 (DS1)	Closure, no mine contact water discharge	August	2022	0.072	0.00011	0.0013	1.1	0.0086	0.0000053	0.0004	0.0011	0.63	0.000068	0.000012	1.4	0.019	0.000011	0.00011	0.00014	0.00058	0.0032		
		September		0.064	0.0001	0.0012	0.99	0.0071	0.0000053	0.00032	0.00095	0.6	0.000065	0.000011	1.3	0.016	0.000011	0.00011	0.00011	0.00056	0.0032		
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		January	2023	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		June		0.053	0.000093	0.0011	0.84	0.0049	0.0000051	0.00021	0.0008	0.55	0.000059	0.000011	1.0	0.013	0.00001	0.0001	0.00008	0.00054	0.0031		
		July		0.048	0.00009	0.0011	0.79	0.004	0.0000051	0.00017	0.00074	0.53	0.000057	0.000011	0.91	0.012	0.00001	0.0001	0.000066	0.00053	0.0031		
		August		0.048	0.00009	0.0011	0.79	0.0038	0.0000052	0.00016	0.00073	0.53	0.000057	0.000011	0.9	0.012	0.00001	0.0001	0.000064	0.00053	0.0031		
		September		0.049	0.000091	0.0011	0.8	0.004	0.0000052	0.00017	0.00075	0.54	0.000057	0.000011	0.92	0.012	0.00001	0.0001	0.000067	0.00054	0.0031		
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		January	2024	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		June		0.047	0.000089	0.0011	0.77	0.0037	0.0000051	0.00016	0.00072	0.52	0.000056	0.000011	0.88	0.012	0.00001	0.0001	0.000062	0.00053	0.0031		
		July		0.045	0.000088	0.0011	0.75	0.0033	0.0000051	0.00014	0.00069	0.52	0.000055	0.00001	0.84	0.011	0.00001	0.0001	0.000056	0.00052	0.0031		
		August		0.044	0.000088	0.0011	0.75	0.0032	0.0000052	0.00013	0.00069	0.52	0.000055	0.000011	0.83	0.011	0.00001	0.0001	0.000054	0.00053	0.0031		
		September		0.045	0.000089	0.0011	0.76	0.0034	0.0000052	0.00014	0.0007	0.53	0.000056	0.000011	0.85	0.011	0.00001	0.0001	0.000057	0.00053	0.0031		
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		January	2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		June		0.044	0.000087	0.0011	0.74	0.0032	0.0000051	0.00013	0.00069	0.52	0.000055	0.00001	0.82	0.011	0.00001	0.0001	0.000053	0.00052	0.0031		
		July		0.042	0.000086	0.0011	0.72	0.0029	0.0000051	0.00011	0.00067	0.51	0.000054	0.00001	0.79	0.011	0.00001	0.0001	0.000049	0.00052	0.0031		
		August		0.042	0.000087	0.0011	0.72	0.0028	0.0000052	0.00011	0.00067	0.52	0.000055	0.000011	0.79	0.011	0.00001	0.0001	0.000048	0.00053	0.0031		
		September		0.043	0.000087	0.0011	0.73	0.0029	0.0000052	0.00012	0.00068	0.52	0.000055	0.000011	0.8	0.011	0.00001	0.0001	0.00005	0.00053	0.0031		
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		January	2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		June		0.042	0.000086	0.0011	0.72	0.0028	0.0000051	0.00011	0.00066	0.51	0.000054	0.00001	0.78	0.01	0.00001	0.0001	0.000048	0.00052	0.0031		
		July		0.041	0.000085	0.0011	0.7	0.0026	0.0000051	0.000098	0.00065	0.51	0.000053	0.00001	0.76	0.01	0.00001	0.0001	0.000045	0.00052	0.0031		
		August		0.041	0.000086	0.0011	0.71	0.0025	0.0000052	0.000095	0.00065	0.51	0.000054	0.000011	0.76	0.01	0.00001	0.0001	0.000044	0.00052	0.0031		
		September		0.041	0.000086	0.0011	0.71	0.0026	0.0000052	0.00010	0.00066	0.51	0.000054	0.000011	0.77	0.01	0.00001	0.0001	0.000045	0.00053	0.0031		
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		January	2027	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		June		0.041	0.000085	0.0011	0.7	0.0026	0.0000051	0.000098	0.00065	0.51	0.000054	0.00001	0.76	0.01	0.00001	0.0001	0.000044	0.00052	0.0031		
		MINIMUM				0.041	0.000085	0.0011	0.7	0.0025	0.0000051	0.000095	0.00065	0.51	0.000053	0.00001	0.76	0.01	0.00001	0.0001	0.000044	0.00052	0.0031
		MAXIMUM				0.072	0.00011	0.0013	1.1	0.0086	0.0000053	0.0004	0.0011	0.63	0.000068	0.000012	1.4	0.019	0.000011	0.00011	0.00014	0.00058	0.0032
		AVERAGE				0.047	0.00009	0.0011	0.78	0.0037	0.0000052	0.00016	0.00073	0.53	0.000056	0.000011	0.89	0.012	0.00001	0.0001	0.000062	0.00053	0.0031

Whale Tail Effluent Quality Criteria maximum average ⁶ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	
CCME (CEQG-PAL [chronic]) ⁷ (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004				0.002	
LOCATION	Time Period	Month	Year	TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁸	Ca	Cr	Co	Cu ⁸	
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Downstream Node 1 (DS1)	Closure, controlled discharge from pit lake	July	2027	13	0.013	6.1	2.0	0.029	2.4	0.0078	0.037	0.0029	0.016	0.00011	0.00076	0.0045	0.000021	0.000052	0.012	0.0000063	2.3	0.00023	0.00012	0.00056	
		August		14	0.018	6.3	2.4	0.03	2.5	0.0088	0.048	0.0032	0.017	0.00012	0.00098	0.0048	0.000022	0.000053	0.013	0.0000066	2.4	0.00027	0.00013	0.00058	
		September		14	0.02	6.3	2.5	0.03	2.5	0.009	0.051	0.0032	0.017	0.00012	0.0011	0.0049	0.000022	0.000053	0.013	0.0000066	2.4	0.00028	0.00013	0.00058	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2028	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		13	0.014	6.0	2.1	0.028	2.4	0.0079	0.037	0.0029	0.015	0.00011	0.00084	0.0046	0.000021	0.000051	0.012	0.0000063	2.3	0.00023	0.00012	0.00056	
		July	2028	13	0.016	6.0	2.2	0.029	2.4	0.0081	0.037	0.003	0.015	0.00011	0.00093	0.0046	0.000021	0.000052	0.012	0.0000063	2.3	0.00024	0.00012	0.00056	
		August		14	0.02	6.2	2.6	0.03	2.5	0.009	0.043	0.0032	0.017	0.00012	0.0012	0.0049	0.000021	0.000053	0.013	0.0000065	2.4	0.00027	0.00013	0.00058	
		September		14	0.02	6.2	2.6	0.03	2.5	0.009	0.041	0.0033	0.016	0.00012	0.0012	0.0049	0.000021	0.000052	0.013	0.0000065	2.4	0.00027	0.00013	0.00057	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2029	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		13	0.013	5.9	2.1	0.028	2.3	0.0077	0.027	0.0029	0.014	0.00011	0.00089	0.0045	0.000021	0.000051	0.012	0.0000062	2.3	0.00022	0.00012	0.00055	
		July	2029	13	0.013	5.9	2.2	0.029	2.3	0.0078	0.023	0.0029	0.014	0.00011	0.00093	0.0046	0.000021	0.000051	0.012	0.0000062	2.3	0.00022	0.00012	0.00055	
		August		13	0.016	6.1	2.5	0.029	2.4	0.0085	0.027	0.0032	0.015	0.00012	0.0011	0.0048	0.000021	0.000052	0.013	0.0000064	2.4	0.00025	0.00012	0.00057	
		September		13	0.016	6.1	2.5	0.029	2.4	0.0085	0.025	0.0032	0.015	0.00012	0.0012	0.0048	0.000021	0.000052	0.013	0.0000064	2.4	0.00025	0.00012	0.00057	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2030	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		12	0.010	5.8	2.0	0.028	2.3	0.0073	0.017	0.0028	0.014	0.00011	0.00084	0.0045	0.000021	0.000051	0.012	0.0000061	2.2	0.0002	0.00011	0.00054	
		July	2030	12	0.0098	5.9	2.1	0.028	2.3	0.0074	0.015	0.0029	0.014	0.00011	0.00086	0.0045	0.000021	0.000051	0.012	0.0000062	2.2	0.0002	0.00011	0.00055	
		August		13	0.012	6.0	2.3	0.029	2.4	0.008	0.016	0.0031	0.014	0.00012	0.001	0.0047	0.000021	0.000052	0.012	0.0000063	2.3	0.00023	0.00012	0.00056	
		September		13	0.012	6.0	2.3	0.029	2.4	0.0079	0.016	0.0031	0.014	0.00011	0.0011	0.0047	0.000021	0.000052	0.012	0.0000063	2.3	0.00023	0.00012	0.00056	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2031	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		12	0.0079	5.8	1.9	0.028	2.3	0.007	0.012	0.0028	0.013	0.00011	0.00076	0.0044	0.000021	0.000051	0.011	0.0000061	2.2	0.00019	0.00011	0.00054	
		July	2031	12	0.008	5.8	2.0	0.028	2.3	0.007	0.011	0.0028	0.013	0.00011	0.00078	0.0044	0.000021	0.000051	0.011	0.0000061	2.2	0.0002	0.00011	0.00055	
		August		13	0.01	6.0	2.2	0.029	2.3	0.0075	0.012	0.003	0.014	0.00011	0.00094	0.0046	0.000021	0.000052	0.012	0.0000063	2.3	0.00022	0.00012	0.00056	
		September		13	0.01	5.9	2.2	0.029	2.3	0.0075	0.012	0.003	0.014	0.00011	0.00094	0.0046	0.000021	0.000052	0.012	0.0000063	2.3	0.00023	0.00012	0.00056	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05				0.004		0.25										0.1	
CCME (CEQG-PAL (chronic)) ² (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025		0.0008		0.015	0.12	0.007		
Constituent				Fe	Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁸	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Downstream Node 1 (DS1)	Closure, controlled discharge from pit lake	July	2027	0.044	0.000089	0.0011	0.75	0.0033	0.0000052	0.00013	0.00071	0.53	0.000056	0.000011	0.83	0.011	0.00001	0.0001	0.000053	0.00053	0.0031	
		August		0.048	0.000093	0.0011	0.81	0.004	0.0000054	0.00015	0.00078	0.55	0.000059	0.000011	0.9	0.012	0.000011	0.00011	0.000061	0.00055	0.0032	
		September		0.048	0.000093	0.0011	0.82	0.0041	0.0000053	0.00016	0.0008	0.56	0.000059	0.000011	0.91	0.013	0.000011	0.00011	0.000063	0.00055	0.0032	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2028	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.044	0.000088	0.0011	0.76	0.0034	0.0000052	0.00013	0.00072	0.53	0.000056	0.000011	0.82	0.012	0.00001	0.0001	0.000054	0.00053	0.0031	
		July	2028	0.044	0.000088	0.0011	0.77	0.0037	0.0000052	0.00014	0.00074	0.53	0.000056	0.000011	0.84	0.012	0.00001	0.0001	0.000057	0.00053	0.0031	
		August		0.047	0.000091	0.0011	0.82	0.0044	0.0000053	0.00016	0.00079	0.56	0.000058	0.000011	0.91	0.013	0.000011	0.00011	0.000066	0.00054	0.0031	
		September		0.047	0.000091	0.0011	0.82	0.0045	0.0000053	0.00017	0.0008	0.56	0.000058	0.000011	0.91	0.013	0.000011	0.00011	0.000067	0.00054	0.0031	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2029	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.042	0.000086	0.0011	0.76	0.0036	0.0000051	0.00013	0.00071	0.52	0.000055	0.00001	0.82	0.012	0.00001	0.0001	0.000056	0.00052	0.003	
		July	2029	0.042	0.000086	0.0011	0.76	0.0037	0.0000051	0.00013	0.00071	0.53	0.000055	0.00001	0.82	0.012	0.00001	0.0001	0.000058	0.00052	0.003	
		August		0.044	0.000088	0.0011	0.81	0.0043	0.0000053	0.00016	0.00076	0.55	0.000057	0.000011	0.88	0.013	0.000011	0.0001	0.000067	0.00054	0.003	
		September		0.044	0.000088	0.0011	0.81	0.0043	0.0000052	0.00016	0.00076	0.54	0.000057	0.000011	0.88	0.013	0.000011	0.0001	0.000068	0.00054	0.0029	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2030	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.041	0.000084	0.0011	0.74	0.0034	0.0000051	0.00012	0.00069	0.52	0.000054	0.00001	0.79	0.011	0.00001	0.0001	0.000055	0.00052	0.0029	
		July	2030	0.041	0.000085	0.0011	0.75	0.0034	0.0000051	0.00013	0.00069	0.52	0.000054	0.00001	0.8	0.011	0.00001	0.0001	0.000056	0.00052	0.0029	
		August		0.043	0.000087	0.0011	0.79	0.004	0.0000052	0.00015	0.00073	0.54	0.000056	0.000011	0.85	0.012	0.00001	0.0001	0.000064	0.00053	0.0029	
		September		0.043	0.000086	0.0011	0.79	0.004	0.0000052	0.00015	0.00074	0.54	0.000056	0.000011	0.85	0.012	0.00001	0.0001	0.000064	0.00053	0.0029	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2031	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.04	0.000083	0.0011	0.73	0.0031	0.0000051	0.00011	0.00067	0.51	0.000054	0.00001	0.77	0.011	0.00001	0.0001	0.000052	0.00052	0.0029	
		July	2031	0.04	0.000084	0.0011	0.73	0.0031	0.0000051	0.00011	0.00068	0.51	0.000054	0.00001	0.77	0.011	0.00001	0.0001	0.000053	0.00052	0.0029	
		August		0.043	0.000086	0.0011	0.77	0.0036	0.0000052	0.00013	0.00072	0.53	0.000056	0.000011	0.82	0.012	0.000011	0.0001	0.00006	0.00053	0.0029	
		September		0.043	0.000086	0.0011	0.77	0.0036	0.0000052	0.00013	0.00072	0.53	0.000055	0.000011	0.81	0.012	0.00001	0.0001	0.00006	0.00053	0.0029	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

 **GOLDER**

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https://golderaassociates.sharepoint.com/sites/121081/Project%20Files/5%20Technical%20Work/02_WB_WQ/WQ/Report/Rev0/Appendix%20C/31March2020/2_Effluent_MAM_WTS_DS1_DS2_31March2020

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05					0.004		0.25									0.1	
CCME (CEQG-PAL (chronic)) ² (mg/L)				0.3	0.001					0.000026	0.073	0.025		0.001	0.00025		0.0008		0.015	0.12	0.007	
Constituent				Fe	Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Downstream Node 1 (DS1)	Closure, controlled discharge from pit lake	January	2032	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.04	0.000083	0.0011	0.72	0.0029	0.0000051	0.0001	0.00066	0.51	0.000053	0.00001	0.75	0.011	0.00001	0.0001	0.000049	0.00052	0.0029	
		July		0.04	0.000083	0.0011	0.72	0.0029	0.0000051	0.0001	0.00067	0.51	0.000053	0.00001	0.75	0.011	0.00001	0.0001	0.00005	0.00052	0.0029	
		August		0.042	0.000085	0.0011	0.76	0.0033	0.0000053	0.00012	0.00071	0.53	0.000055	0.000011	0.79	0.012	0.000011	0.0001	0.000056	0.00053	0.0029	
		September		0.043	0.000085	0.0011	0.76	0.0033	0.0000052	0.00012	0.00071	0.52	0.000055	0.000011	0.79	0.012	0.000011	0.0001	0.000056	0.00053	0.0029	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2033	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.04	0.000083	0.001	0.71	0.0026	0.0000051	0.000094	0.00066	0.5	0.000053	0.00001	0.73	0.011	0.00001	0.0001	0.000047	0.00052	0.0029	
		July		0.04	0.000083	0.0011	0.72	0.0027	0.0000051	0.000095	0.00066	0.51	0.000053	0.00001	0.73	0.011	0.00001	0.0001	0.000047	0.00052	0.0029	
		August		0.042	0.000085	0.0011	0.75	0.003	0.0000053	0.00011	0.0007	0.52	0.000055	0.000011	0.77	0.011	0.000011	0.00011	0.000052	0.00054	0.0029	
		September		0.043	0.000085	0.0011	0.75	0.003	0.0000053	0.00011	0.0007	0.52	0.000055	0.000011	0.77	0.011	0.000011	0.0001	0.000052	0.00053	0.0029	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2034	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.04	0.000082	0.001	0.7	0.0025	0.0000051	0.000087	0.00065	0.5	0.000053	0.00001	0.72	0.01	0.00001	0.0001	0.000044	0.00052	0.0029	
		July		0.04	0.000083	0.0011	0.71	0.0025	0.0000052	0.000088	0.00066	0.51	0.000053	0.00001	0.72	0.011	0.00001	0.0001	0.000045	0.00052	0.0029	
		August		0.042	0.000084	0.0011	0.74	0.0028	0.0000053	0.000098	0.0007	0.52	0.000054	0.000011	0.75	0.011	0.000011	0.00011	0.000049	0.00054	0.0029	
		September		0.043	0.000084	0.0011	0.74	0.0028	0.0000053	0.000098	0.0007	0.52	0.000054	0.000011	0.75	0.011	0.000011	0.00011	0.000049	0.00054	0.0029	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2035	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.04	0.000082	0.001	0.7	0.0023	0.0000051	0.000081	0.00065	0.5	0.000052	0.00001	0.71	0.01	0.00001	0.0001	0.000042	0.00052	0.0029	
		July		0.04	0.000082	0.001	0.7	0.0023	0.0000052	0.000082	0.00066	0.5	0.000053	0.00001	0.71	0.01	0.00001	0.0001	0.000043	0.00052	0.0029	
		August		0.042	0.000084	0.0011	0.73	0.0026	0.0000053	0.00009	0.00069	0.52	0.000054	0.000011	0.73	0.011	0.000011	0.00011	0.000047	0.00054	0.0029	
		September		0.043	0.000084	0.0011	0.73	0.0026	0.0000053	0.00009	0.0007	0.52	0.000054	0.000011	0.73	0.011	0.000011	0.00011	0.000047	0.00054	0.0029	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2036	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.04	0.000082	0.001	0.7	0.0022	0.0000051	0.000076	0.00065	0.5	0.000052	0.00001	0.7	0.01	0.00001	0.0001	0.000041	0.00052	0.0029	
		July		0.04	0.000082	0.001	0.7	0.0022	0.0000052	0.000077	0.00065	0.5	0.000053	0.00001	0.7	0.01	0.00001	0.0001	0.000041	0.00052	0.0029	
		August		0.042	0.000084	0.0011	0.73	0.0025	0.0000053	0.000084	0.00069	0.51	0.000054	0.000011	0.72	0.011	0.000011	0.00011	0.000045	0.00054	0.0029	
		September		0.043	0.000084	0.0011	0.73	0.0025	0.0000053	0.000084	0.00069	0.51	0.000054	0.000011	0.72	0.011	0.000011	0.00011	0.000045	0.00054	0.0029	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1		
CCME (CEQG-PAL [chronic]) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004			0.002			
LOCATION	Time Period	Month	Year	Constituent	TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁵	Ca	Cr	Co	Cu ⁶	
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Downstream Node 1 (DS1)	Closure, controlled discharge from pit lake	January	2037		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June			11	0.0038	5.7	1.6	0.028	2.2	0.006	0.0081	0.0025	0.013	0.00011	0.00049	0.0042	0.000021	0.000051	0.011	0.0000059	2.1	0.00019	0.00011	0.00054	
		July			11	0.004	5.7	1.6	0.028	2.2	0.006	0.0081	0.0025	0.013	0.00011	0.0005	0.0043	0.000021	0.000051	0.011	0.000006	2.1	0.00019	0.00011	0.00054	
		August			12	0.0052	5.8	1.8	0.029	2.2	0.0063	0.0084	0.0026	0.014	0.00011	0.00059	0.0044	0.000021	0.000053	0.011	0.0000061	2.2	0.00022	0.00011	0.00056	
		September			12	0.0052	5.8	1.8	0.029	2.2	0.0063	0.0084	0.0026	0.014	0.00011	0.00059	0.0044	0.000021	0.000052	0.011	0.0000061	2.2	0.00022	0.00011	0.00056	
		October			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2038		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June			11	0.0035	5.7	1.6	0.028	2.2	0.0059	0.008	0.0025	0.013	0.00011	0.00046	0.0042	0.000021	0.000051	0.01	0.0000059	2.1	0.00019	0.00011	0.00054	
		July			11	0.0037	5.7	1.6	0.028	2.2	0.0059	0.008	0.0025	0.013	0.00011	0.00048	0.0042	0.000021	0.000051	0.011	0.0000059	2.1	0.00019	0.00011	0.00054	
		August			12	0.0048	5.8	1.7	0.029	2.2	0.0062	0.0083	0.0026	0.014	0.00011	0.00056	0.0044	0.000021	0.000053	0.011	0.0000061	2.1	0.00022	0.00011	0.00056	
		September			12	0.0049	5.8	1.7	0.029	2.2	0.0062	0.0082	0.0026	0.014	0.00011	0.00057	0.0044	0.000021	0.000053	0.011	0.000006	2.1	0.00022	0.00011	0.00056	
		October			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2039		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June			11	0.0033	5.7	1.5	0.028	2.2	0.0058	0.0078	0.0024	0.013	0.00011	0.00045	0.0042	0.000021	0.000051	0.01	0.0000059	2.1	0.00019	0.00011	0.00054	
		July			11	0.0035	5.7	1.6	0.028	2.2	0.0059	0.0079	0.0025	0.013	0.00011	0.00046	0.0042	0.000021	0.000051	0.011	0.0000059	2.1	0.00019	0.00011	0.00054	
		August			11	0.0045	5.8	1.7	0.029	2.2	0.0061	0.0081	0.0026	0.014	0.00011	0.00054	0.0044	0.000021	0.000053	0.011	0.000006	2.1	0.00022	0.00011	0.00056	
		September			11	0.0046	5.8	1.7	0.028	2.2	0.0061	0.0081	0.0026	0.014	0.00011	0.00055	0.0044	0.000021	0.000053	0.011	0.000006	2.1	0.00022	0.00011	0.00056	
		October			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		MINIMUM				11	0.0033	5.7	1.5	0.028	2.2	0.0058	0.0078	0.0024	0.013	0.00011	0.00045	0.0042	0.000021	0.000051	0.01	0.0000059	2.1	0.00019	0.00011	0.00054
		MAXIMUM				14	0.02	6.3	2.6	0.03	2.5	0.009	0.051	0.0033	0.017	0.00012	0.0012	0.0049	0.000022	0.000053	0.013	0.0000066	2.4	0.00028	0.00013	0.00058
		AVERAGE				12	0.0085	5.9	2.0	0.029	2.3	0.007	0.015	0.0028	0.014	0.00011	0.00074	0.0045	0.000021	0.000052	0.011	0.0000061	2.2	0.00022	0.00011	0.00055

Notes:
¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells
²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEQG's shown in bold-underlined type
³CEQG Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed
⁴CEQG Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.
⁶CEQG Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 11 mg/L.
⁷ The CEQG aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)										1.0	0.05				0.004		0.25																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		</

Notes:
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²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEQG's shown in bold-underlined type
³CEQG Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed
⁴CEQG Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.
⁵CEQG Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 11 mg/L.
⁷ The CEQG aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

Whale Tail Effluent Quality Criteria maximum average ^a (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1		
CCME (CEQG-PAL [chronic]) ^b (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004			0.002			
LOCATION	Time Period	Month	Year	Constituent	TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁸	Ca	Cr	Co	Cu ⁸	
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Downstream Node 2 (DS2)	Construction and Operations	January	2018		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June			13	0.0000036	5.7	2.3	0.029	2.2	0.0062	0.0087	0.0043	0.066	0.00011	0.00098	0.0053	0.000023	0.000054	0.011	0.0000062	2.5	0.0016	0.0002	0.00064	
		July			12	0.000008	5.9	2.0	0.03	2.2	0.0062	0.0088	0.0046	0.078	0.00011	0.0011	0.0052	0.000023	0.000055	0.011	0.0000065	2.4	0.0019	0.00022	0.00067	
		August			13	0.000015	5.6	2.4	0.03	2.1	0.0063	0.0092	0.0063	0.13	0.00011	0.0018	0.0059	0.000024	0.000055	0.011	0.0000065	2.5	0.0033	0.0003	0.00074	
		September			12	0.000017	5.5	2.4	0.029	2.0	0.0062	0.0091	0.0065	0.14	0.00011	0.0019	0.0059	0.000024	0.000055	0.011	0.0000064	2.5	0.0035	0.00031	0.00074	
		October			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2019		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June			12	0.000019	5.4	2.2	0.029	2.0	0.006	0.0086	0.006	0.12	0.00011	0.0017	0.0055	0.000023	0.000053	0.01	0.0000063	2.3	0.0032	0.00029	0.00071	
		July			12	0.000021	5.6	2.1	0.029	2.1	0.0061	0.009	0.0058	0.12	0.00011	0.0016	0.0056	0.000024	0.000054	0.011	0.0000064	2.4	0.003	0.00028	0.00071	
		August			12	0.000026	5.6	2.3	0.029	2.1	0.0062	0.0096	0.0062	0.13	0.00011	0.0018	0.0058	0.000024	0.000054	0.011	0.0000065	2.5	0.0033	0.0003	0.00073	
		September			14	0.00025	5.7	2.9	0.029	2.2	0.0065	0.011	0.0058	0.12	0.00011	0.0016	0.0063	0.000025	0.000054	0.011	0.0000064	2.8	0.003	0.00028	0.00071	
		October			17	0.0027	5.8	5.0	0.03	2.4	0.0078	0.02	0.006	0.12	0.00011	0.0017	0.0079	0.000029	0.000053	0.011	0.0000063	3.8	0.0031	0.00028	0.00071	
		November			21	0.01	6.0	6.9	0.03	2.6	0.0093	0.04	0.0058	0.11	0.00011	0.0016	0.0092	0.000031	0.00005	0.011	0.0000061	4.6	0.0027	0.00026	0.00067	
		December			25	0.023	6.4	8.9	0.032	2.9	0.012	0.071	0.0061	0.097	0.00011	0.0016	0.011	0.000034	0.000049	0.012	0.0000063	5.5	0.0025	0.00025	0.00066	
		January	2020		26	0.025	6.5	9.3	0.032	3.0	0.012	0.077	0.0061	0.096	0.00011	0.0017	0.011	0.000035	0.000049	0.012	0.0000063	5.6	0.0025	0.00025	0.00066	
		February			26	0.025	6.5	9.3	0.032	3.0	0.012	0.077	0.0061	0.096	0.00011	0.0017	0.011	0.000035	0.000049	0.012	0.0000063	5.6	0.0025	0.00025	0.00066	
		March			26	0.025	6.5	9.3	0.032	3.0	0.012	0.077	0.0061	0.096	0.00011	0.0017	0.011	0.000035	0.000049	0.012	0.0000063	5.6	0.0025	0.00025	0.00066	
		April			26	0.026	6.5	9.3	0.032	3.0	0.012	0.077	0.0061	0.096	0.00011	0.0017	0.011	0.000035	0.000049	0.012	0.0000063	5.7	0.0025	0.00025	0.00066	
		May			26	0.026	6.5	9.3	0.032	3.0	0.012	0.077	0.0061	0.096	0.00011	0.0017	0.011	0.000035	0.000049	0.012	0.0000063	5.7	0.0025	0.00025	0.00066	
		June			39	0.11	8.9	15	0.041	4.2	0.024	0.26	0.0085	0.073	0.00013	0.0022	0.013	0.000037	0.000052	0.023	0.000009	7.3	0.0018	0.00026	0.00073	
		July			53	0.19	12	21	0.054	5.6	0.039	0.49	0.012	0.078	0.00017	0.0033	0.017	0.00004	0.000058	0.036	0.000013	9.2	0.002	0.00032	0.0009	
		August			55	0.19	12	22	0.055	5.7	0.04	0.51	0.012	0.08	0.00017	0.0034	0.017	0.000041	0.000059	0.037	0.000013	9.3	0.0021	0.00033	0.00092	
		September			49	0.16	11	19	0.052	5.3	0.037	0.46	0.011	0.073	0.00016	0.003	0.015	0.000037	0.000058	0.035	0.000012	8.3	0.0019	0.00031	0.00088	
		October			54	0.18	12	21	0.055	5.6	0.041	0.53	0.013	0.082	0.00017	0.0035	0.016	0.000038	0.000059	0.038	0.000013	8.9	0.0021	0.00034	0.00093	
		November			53	0.18	12	21	0.054	5.6	0.041	0.53	0.013	0.081	0.00017	0.0035	0.016	0.000037	0.000058	0.038	0.000013	8.8	0.0021	0.00034	0.00092	
		December			53	0.18	12	21	0.054	5.5	0.041	0.53	0.013	0.081	0.00017	0.0036	0.016	0.000037	0.000058	0.038	0.000013	8.7	0.0021	0.00034	0.00092	
		January	2021		53	0.18	12	21	0.054	5.5	0.041	0.53	0.013	0.08	0.00017	0.0036	0.016	0.000036	0.000058	0.038	0.000013	8.6	0.0021	0.00034	0.00091	
		February			52	0.17	12	21	0.054	5.5	0.041	0.52	0.013	0.08	0.00017	0.0037	0.016	0.000036	0.000057	0.038	0.000013	8.5	0.0021	0.00034	0.00091	
		March			52	0.17	12	21	0.053	5.4	0.041	0.52	0.013	0.08	0.00017	0.0038	0.016	0.000036	0.000057	0.038	0.000013	8.5	0.0021	0.00034	0.00091	
		April			52	0.17	12	20	0.053	5.4	0.041	0.52	0.013	0.08	0.00017	0.0039	0.015	0.000035	0.000057	0.038	0.000013	8.4	0.0021	0.00034	0.0009	
		May			52	0.17	12	20	0.053	5.4	0.041	0.52	0.013	0.08	0.00017	0.0041	0.015	0.000035	0.000056	0.038	0.000013	8.3	0.0021	0.00034	0.0009	
		June			44	0.15	11	17	0.049	5.0	0.034	0.43	0.011	0.068	0.00019	0.0053	0.013	0.00003	0.000055	0.037	0.000012	6.9	0.0018	0.00031	0.00086	
		July			51	0.18	13	20	0.056	5.8	0.04	0.49	0.014	0.081	0.00023	0.0075	0.015	0.000032	0.00006	0.046	0.000014	7.8	0.0022	0.00038	0.00099	
		August			52	0.17	13	20	0.057	5.9	0.041	0.49	0.014	0.082	0.00023	0.0075	0.015	0.000033	0.000062	0.047	0.000014	7.8	0.0022	0.00039	0.001	
		September			49	0.15	13	18	0.055	5.6	0.039	0.45	0.014	0.079	0.00022	0.0069	0.014	0.000032	0.000061	0.045	0.000014	7.4	0.0021	0.00037	0.00098	
		October			55	0.17	14	21	0.059	6.1	0.045	0.52	0.016	0.09	0.00024	0.0079	0.016	0.000033	0.000063	0.05	0.000015	8.2	0.0024	0.00041	0.0011	
		November			55	0.17	14	21	0.059	6.1	0.045	0.52	0.016	0.09	0.00024	0.0079	0.015	0.000033	0.000062	0.05	0.000015	8.2	0.0024	0.00041	0.001	
		December			55	0.17	13	21	0.058	6.1	0.045	0.52	0.016	0.089	0.00024	0.0079	0.015	0.000032	0.000062	0.05	0.00001					

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05				0.004		0.25									0.1		
CCME (CEQG-PAL (chronic)) ² (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	0.007	
Constituent				Fe	Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁸	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Downstream Node 2 (DS2)	Construction and Operations	January	2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.15	0.0001	0.0011	0.85	0.0039	0.0000054	0.00006	0.0014	0.56	0.000055	0.000013	0.67	0.014	0.000012	0.00011	0.000034	0.00069	0.003	
		July		0.17	0.00011	0.0012	0.84	0.0041	0.0000055	0.000061	0.0015	0.56	0.000056	0.000013	0.68	0.012	0.000012	0.00011	0.000037	0.00072	0.003	
		August		0.28	0.00012	0.0012	0.93	0.0061	0.0000054	0.000063	0.0022	0.58	0.000056	0.000015	0.66	0.014	0.000013	0.00011	0.000039	0.00085	0.0028	
		September		0.3	0.00013	0.0012	0.94	0.0063	0.0000054	0.000063	0.0023	0.57	0.000055	0.000015	0.65	0.014	0.000013	0.00011	0.00004	0.00087	0.0027	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2019	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		0.27	0.00012	0.0011	0.88	0.0058	0.0000052	0.000061	0.0021	0.55	0.000054	0.000014	0.64	0.013	0.000012	0.00011	0.000038	0.00082	0.0027	
		July		0.26	0.00012	0.0012	0.88	0.0056	0.0000053	0.000062	0.002	0.56	0.000055	0.000014	0.65	0.013	0.000012	0.00011	0.000039	0.00081	0.0028	
		August		0.28	0.00013	0.0012	0.92	0.006	0.0000054	0.000064	0.0022	0.57	0.000055	0.000015	0.66	0.014	0.000013	0.00011	0.00004	0.00085	0.0027	
		September		0.25	0.00012	0.0013	0.94	0.0055	0.0000053	0.000072	0.002	0.61	0.000055	0.000014	0.68	0.017	0.000012	0.00011	0.000039	0.00081	0.0028	
		October		0.26	0.00012	0.0017	1.1	0.0059	0.0000052	0.00011	0.0022	0.71	0.000054	0.000014	0.76	0.027	0.000012	0.00011	0.000044	0.00081	0.0027	
		November		0.23	0.00011	0.0019	1.2	0.006	0.0000049	0.00017	0.002	0.79	0.000052	0.000013	0.87	0.035	0.000011	0.0001	0.000056	0.00074	0.0026	
		December		0.21	0.00011	0.0022	1.4	0.0068	0.0000049	0.00026	0.002	0.89	0.000054	0.000013	1.1	0.044	0.000011	0.000099	0.000081	0.00072	0.0026	
		January	2020	0.21	0.00011	0.0022	1.4	0.007	0.0000049	0.00028	0.002	0.9	0.000054	0.000013	1.1	0.045	0.000011	0.000099	0.000086	0.00071	0.0026	
		February		0.21	0.00011	0.0022	1.4	0.007	0.0000049	0.00028	0.002	0.9	0.000054	0.000013	1.1	0.045	0.000011	0.000099	0.000086	0.00071	0.0026	
		March		0.21	0.00011	0.0022	1.4	0.007	0.0000049	0.00028	0.002	0.9	0.000054	0.000013	1.1	0.045	0.000011	0.000099	0.000086	0.00071	0.0026	
		April		0.21	0.00011	0.0022	1.4	0.007	0.0000049	0.00028	0.002	0.9	0.000054	0.000013	1.1	0.045	0.000011	0.000099	0.000086	0.00071	0.0026	
		May		0.21	0.00011	0.0022	1.4	0.007	0.0000049	0.00028	0.002	0.9	0.000054	0.000013	1.1	0.045	0.000011	0.000099	0.000086	0.00071	0.0026	
		June		0.16	0.00012	0.0026	2.1	0.014	0.0000051	0.00088	0.0021	1.1	0.000073	0.000013	2.4	0.059	0.000011	0.0001	0.00026	0.00067	0.003	
		July		0.18	0.00016	0.0031	2.9	0.024	0.0000057	0.0016	0.0026	1.3	0.000099	0.000015	3.9	0.074	0.000013	0.00012	0.00047	0.00074	0.0036	
		August		0.18	0.00016	0.0031	3.0	0.025	0.0000059	0.0016	0.0026	1.3	0.0001	0.000015	4.0	0.074	0.000013	0.00012	0.00049	0.00076	0.0036	
		September		0.17	0.00016	0.0028	2.7	0.023	0.0000058	0.0015	0.0024	1.2	0.000097	0.000015	3.7	0.065	0.000013	0.00012	0.00045	0.00073	0.0036	
		October		0.19	0.00017	0.003	3.0	0.026	0.0000058	0.0017	0.0026	1.2	0.0001	0.000015	4.1	0.071	0.000013	0.00012	0.00051	0.00075	0.0036	
		November		0.18	0.00017	0.0029	2.9	0.026	0.0000057	0.0017	0.0026	1.2	0.0001	0.000015	4.1	0.07	0.000013	0.00012	0.00051	0.00075	0.0036	
		December		0.18	0.00017	0.0029	2.9	0.026	0.0000057	0.0017	0.0026	1.2	0.0001	0.000015	4.1	0.069	0.000013	0.00011	0.00051	0.00075	0.0036	
		January	2021	0.18	0.00017	0.0028	2.9	0.026	0.0000057	0.0017	0.0025	1.2	0.0001	0.000015	4.1	0.068	0.000013	0.00011	0.00051	0.00074	0.0035	
		February		0.18	0.00016	0.0028	2.9	0.026	0.0000056	0.0017	0.0025	1.2	0.0001	0.000015	4.1	0.068	0.000012	0.00011	0.00051	0.00074	0.0035	
		March		0.18	0.00016	0.0028	2.9	0.026	0.0000056	0.0017	0.0025	1.2	0.0001	0.000015	4.1	0.067	0.000012	0.00011	0.00051	0.00074	0.0035	
		April		0.18	0.00016	0.0028	2.9	0.026	0.0000056	0.0017	0.0025	1.2	0.0001	0.000015	4.1	0.067	0.000012	0.00011	0.00051	0.00073	0.0035	
		May		0.18	0.00016	0.0027	2.8	0.027	0.0000055	0.0017	0.0025	1.2	0.0001	0.000015	4.1	0.066	0.000012	0.00011	0.00051	0.00073	0.0035	
		June		0.16	0.00016	0.0023	2.4	0.026	0.0000055	0.0014	0.0023	1.0	0.0001	0.000014	3.6	0.053	0.000012	0.00011	0.00044	0.0007	0.0034	
		July		0.2	0.00019	0.0025	2.9	0.033	0.000006	0.0018	0.0027	1.2	0.00013	0.000016	4.4	0.059	0.000013	0.00012	0.00055	0.00079	0.0037	
		August		0.2	0.0002	0.0025	2.9	0.034	0.0000062	0.0018	0.0027	1.2	0.00013	0.000016	4.5	0.059	0.000013	0.00012	0.00056	0.00081	0.0038	
		September		0.19	0.00019	0.0024	2.8	0.032	0.0000061	0.0017	0.0026	1.1	0.00012	0.000016	4.3	0.056	0.000013	0.00012	0.00053	0.0008	0.0038	
		October		0.21	0.00021	0.0026	3.1	0.037	0.0000063	0.002	0.0029	1.2	0.00014	0.000017	4.9	0.063	0.000014	0.00012	0.00061	0.00084	0.0039	
		November		0.21	0.00021	0.0026	3.1	0.037	0.0000062	0.002	0.0029	1.2	0.00013	0.000017	4.8	0.062	0.000014	0.00012	0.00061	0.00084	0.0038	
		December		0.21	0.0002	0.0026	3.1	0.036	0.0000062	0.002	0.0029	1.2	0.00013	0.000017	4.8	0.062	0.000014	0.00012	0.0006	0.00083	0.0038	
		January	2022	0.21	0.0002	0.0026	3.1	0.036	0.0000061	0.002	0.0028	1.2	0.00013	0.000017	4.8	0.062	0.000013	0.00012	0.0006	0.00083	0.0038	
		February		0.21	0.0002	0.0025	3.0	0.036	0.0000061	0.0019	0.0028	1.2	0.00013	0.000017	4.8	0.061	0.000013	0.00012	0.0006	0.00082	0.0038	
		March		0.21	0.0002	0.0025	3.0	0.036	0.0000061	0.0019	0.0028	1.2	0.00013	0.000017	4.8	0.061	0.000013	0.00012	0.0006	0.00082	0.0037	
		April		0.21	0.0002	0.0025	3.0	0.036	0.000006	0.0019	0.0028	1.2	0.00013	0.000016	4.7	0.06	0.000013	0.00012	0.00059	0.00081	0.0037	
		May		0.21	0.0002	0.0025	3.0	0.036	0.000006	0.0019	0.0028	1.2	0.00013	0.000016	4.7	0.06	0.000013	0.00012	0.00059	0.00081	0.0037	
		June		0.18	0.00018	0.0021	2.4	0.03	0.0000057	0.0014	0.0025	1.0	0.00012	0.000015	3.7	0.046	0.000012	0.00011	0.00045	0.00074	0.0034	
		July		0.2	0.00019	0.0022	2.5	0.034	0.0000062	0.0015	0.0028	1.1	0.00013	0.000017	4.0	0.049	0.000013	0.00012	0.00048	0.00082	0.0036	
		MINIMUM	0.15</																			

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1		
CCME (CEQG-PAL (chronic)) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004			0.002			
LOCATION	Time Period	Month	Year	Constituent	TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁸	Ca	Cr	Co	Cu ⁸	
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Downstream Node 2 (DS2)	Closure, no mine contact water discharge	August	2022		33	0.11	9.8	10	0.044	4.3	0.029	0.32	0.0097	0.056	0.00021	0.0061	0.0097	0.000027	0.000059	0.032	0.000011	5.0	0.0014	0.00028	0.00084	
		September			37	0.14	11	13	0.047	4.7	0.034	0.39	0.011	0.066	0.00023	0.0073	0.011	0.000028	0.00006	0.037	0.000012	5.6	0.0017	0.00032	0.0009	
		October			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2023		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June			34	0.12	10.0	11	0.044	4.4	0.032	0.35	0.01	0.06	0.00021	0.0063	0.010	0.000027	0.000058	0.034	0.000011	5.2	0.0015	0.00029	0.00085	
		July			21	0.05	7.9	5.6	0.036	3.3	0.018	0.16	0.0059	0.034	0.00015	0.0028	0.0069	0.000025	0.000058	0.021	0.0000085	3.5	0.00075	0.00019	0.0007	
		August			25	0.07	8.5	7.3	0.039	3.6	0.022	0.22	0.0073	0.042	0.00017	0.0038	0.0078	0.000025	0.000058	0.025	0.0000092	4.0	0.0010	0.00022	0.00075	
		September			29	0.088	9.1	8.8	0.041	3.9	0.026	0.27	0.0085	0.049	0.00018	0.0047	0.0086	0.000026	0.000058	0.028	0.0000099	4.4	0.0012	0.00025	0.00079	
		October			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2024		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June			26	0.078	8.5	7.7	0.039	3.6	0.024	0.24	0.0075	0.044	0.00017	0.0041	0.0079	0.000025	0.000057	0.025	0.0000092	4.1	0.0011	0.00023	0.00075	
		July			18	0.036	7.3	4.1	0.034	3.0	0.014	0.11	0.0047	0.027	0.00014	0.002	0.006	0.000024	0.000057	0.018	0.0000078	3.0	0.00053	0.00016	0.00066	
		August			20	0.05	7.7	5.2	0.035	3.2	0.017	0.15	0.0056	0.032	0.00015	0.0027	0.0066	0.000024	0.000057	0.02	0.0000082	3.3	0.0007	0.00018	0.00069	
		September			23	0.065	8.0	6.2	0.037	3.4	0.02	0.19	0.0064	0.037	0.00016	0.0033	0.0072	0.000025	0.000057	0.022	0.0000086	3.6	0.00084	0.0002	0.00071	
		October			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2025		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June			21	0.062	7.7	5.6	0.035	3.2	0.018	0.17	0.0058	0.033	0.00015	0.0031	0.0068	0.000024	0.000056	0.021	0.0000082	3.4	0.00075	0.00019	0.00069	
		July			16	0.03	7.0	3.3	0.033	2.8	0.012	0.082	0.004	0.022	0.00013	0.0015	0.0056	0.000023	0.000057	0.016	0.0000074	2.8	0.00041	0.00015	0.00064	
		August			18	0.042	7.2	4.0	0.034	2.9	0.014	0.11	0.0046	0.026	0.00014	0.0021	0.006	0.000024	0.000057	0.017	0.0000077	3.0	0.00052	0.00016	0.00066	
		September			20	0.054	7.5	4.8	0.035	3.1	0.016	0.14	0.0052	0.029	0.00015	0.0026	0.0064	0.000024	0.000057	0.019	0.000008	3.3	0.00063	0.00018	0.00068	
		October			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2026		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June			19	0.052	7.3	4.5	0.034	3.0	0.015	0.13	0.0049	0.028	0.00015	0.0025	0.0062	0.000024	0.000056	0.018	0.0000077	3.1	0.00058	0.00017	0.00066	
		July			15	0.025	6.8	2.8	0.032	2.7	0.01	0.065	0.0036	0.02	0.00013	0.0013	0.0053	0.000023	0.000057	0.015	0.0000072	2.7	0.00034	0.00014	0.00063	
		August			16	0.035	7.0	3.4	0.033	2.8	0.012	0.087	0.0041	0.022	0.00014	0.0017	0.0057	0.000023	0.000057	0.016	0.0000073	2.8	0.00042	0.00015	0.00064	
		September			18	0.045	7.2	4.0	0.034	3.0	0.014	0.11	0.0045	0.025	0.00014	0.0021	0.006	0.000024	0.000057	0.017	0.0000076	3.0	0.0005	0.00016	0.00066	
		October			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2027		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							

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[https://golderassociates.sharepoint.com/sites/121081/Project Files/5 Technical Work/02_WB_WQ/WQ/Report/Rev0/Appendix C/31March2020/2_Effluent_MAM_WTS_DS1_DS2_31March2020](https://golderassociates.sharepoint.com/sites/121081/Project%20Files/5%20Technical%20Work/02_WB_WQ/WQ/Report/Rev0/Appendix%20C/31March2020/2_Effluent_MAM_WTS_DS1_DS2_31March2020)

Whale Tail Effluent Quality Criteria maximum average ⁶ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	
CCME (CEQG-PAL [chronic]) ⁷ (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004				0.002	
LOCATION	Time Period	Month	Year	TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁸	Ca	Cr	Co	Cu ⁸	
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Downstream Node 2 (DS2)	Closure, controlled discharge from pit lake	July	2027	19	0.054	7.3	4.6	0.034	3.0	0.015	0.12	0.0048	0.026	0.00015	0.0025	0.0064	0.000024	0.000057	0.018	0.0000077	3.2	0.00055	0.00017	0.00067	
		August		19	0.056	7.4	4.7	0.035	3.1	0.015	0.13	0.0049	0.026	0.00015	0.0025	0.0065	0.000024	0.000058	0.018	0.0000078	3.3	0.00056	0.00017	0.00068	
		September		19	0.056	7.3	4.7	0.034	3.1	0.015	0.12	0.0048	0.026	0.00015	0.0026	0.0065	0.000024	0.000057	0.018	0.0000076	3.3	0.00055	0.00017	0.00067	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2028	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		19	0.061	7.0	5.1	0.033	3.0	0.016	0.12	0.0049	0.025	0.00015	0.0029	0.0065	0.000023	0.000054	0.018	0.0000073	3.3	0.00057	0.00017	0.00064	
		July		21	0.067	7.2	5.8	0.034	3.1	0.017	0.12	0.0054	0.026	0.00016	0.0035	0.0069	0.000023	0.000054	0.019	0.0000076	3.5	0.00062	0.00018	0.00066	
		August		21	0.066	7.3	5.8	0.035	3.1	0.017	0.11	0.0055	0.026	0.00016	0.0035	0.007	0.000024	0.000056	0.019	0.0000078	3.6	0.00062	0.00018	0.00068	
		September		20	0.061	7.2	5.6	0.035	3.1	0.016	0.096	0.0054	0.025	0.00016	0.0034	0.0069	0.000023	0.000056	0.019	0.0000077	3.5	0.00059	0.00018	0.00067	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2029	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		19	0.051	6.8	5.2	0.033	2.8	0.015	0.068	0.005	0.022	0.00015	0.0032	0.0064	0.000022	0.000053	0.017	0.0000072	3.2	0.00052	0.00016	0.00063	
		July		19	0.049	6.8	5.3	0.034	2.8	0.015	0.054	0.0051	0.021	0.00015	0.0033	0.0065	0.000022	0.000053	0.017	0.0000073	3.3	0.00053	0.00017	0.00064	
		August		19	0.048	7.0	5.4	0.035	2.9	0.015	0.052	0.0052	0.021	0.00015	0.0033	0.0066	0.000023	0.000055	0.018	0.0000075	3.3	0.00053	0.00017	0.00065	
		September		19	0.044	6.9	5.1	0.035	2.9	0.014	0.045	0.005	0.021	0.00015	0.0031	0.0065	0.000023	0.000055	0.017	0.0000074	3.3	0.0005	0.00017	0.00065	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2030	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		17	0.038	6.5	4.7	0.033	2.7	0.013	0.033	0.0046	0.019	0.00014	0.0028	0.006	0.000022	0.000052	0.016	0.000007	3.0	0.00046	0.00015	0.00061	
		July		18	0.038	6.6	4.8	0.034	2.7	0.013	0.029	0.0047	0.019	0.00014	0.0029	0.0062	0.000022	0.000053	0.016	0.0000071	3.1	0.00048	0.00016	0.00063	
		August		18	0.038	6.7	4.8	0.034	2.7	0.013	0.028	0.0048	0.02	0.00014	0.0029	0.0063	0.000023	0.000055	0.016	0.0000072	3.1	0.00049	0.00016	0.00064	
		September		18	0.035	6.7	4.6	0.034	2.7	0.013	0.026	0.0046	0.019	0.00014	0.0027	0.0062	0.000023	0.000055	0.016	0.0000072	3.1	0.00047	0.00016	0.00064	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2031	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		16	0.031	6.3	4.3	0.032	2.5	0.012	0.021	0.0043	0.018	0.00013	0.0025	0.0058	0.000022	0.000052	0.015	0.0000068	2.9	0.00045	0.00015	0.00061	
		July		17	0.032	6.4	4.4	0.033	2.6	0.012	0.02	0.0044	0.019	0.00014	0.0025	0.0059	0.000022	0.000054	0.015	0.0000069	2.9	0.00047	0.00015	0.00062	
		August		17	0.032	6.6	4.4	0.034	2.6	0.012	0.02	0.0044	0.019	0.00014	0.0025	0.0061	0.000023	0.000055	0.015	0.000007	3.0	0.00048	0.00016	0.00064	
		September		17	0.03	6.5	4.2	0.034	2.6	0.012	0.019	0.0043	0.019	0.00014	0.0024	0.006	0.000023	0.000055	0.015	0.000007	3.0	0.00046	0.00015	0.00064	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05				0.004		0.25									0.1		
CCME (CEQG-PAL (chronic)) ² (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025		0.0008		0.015	0.12	0.007		
Constituent				Fe	Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
Downstream Node 2 (DS2)	Closure, controlled discharge from pit lake	July	2027	0.069	0.00011	0.0013	1.1	0.0084	0.0000058	0.00032	0.0012	0.68	0.000072	0.000012	1.3	0.019	0.000012	0.00012	0.00011	0.00062	0.0034	
		August		0.07	0.00011	0.0014	1.1	0.0086	0.0000059	0.00033	0.0012	0.69	0.000074	0.000013	1.3	0.02	0.000012	0.00012	0.00011	0.00063	0.0035	
		September		0.068	0.00011	0.0013	1.1	0.0086	0.0000058	0.00032	0.0012	0.69	0.000073	0.000012	1.3	0.02	0.000012	0.00012	0.00011	0.00062	0.0034	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2028	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.067	0.00011	0.0013	1.1	0.0096	0.0000055	0.00036	0.0012	0.67	0.000071	0.000012	1.3	0.021	0.000011	0.00011	0.00013	0.00059	0.0031	
		July	2029	0.07	0.00011	0.0013	1.2	0.011	0.0000056	0.00042	0.0013	0.7	0.000074	0.000012	1.5	0.022	0.000011	0.00011	0.00015	0.0006	0.003	
		August		0.071	0.00011	0.0014	1.2	0.011	0.0000057	0.00043	0.0013	0.71	0.000075	0.000012	1.5	0.023	0.000012	0.00011	0.00015	0.00062	0.003	
		September		0.068	0.00011	0.0014	1.2	0.011	0.0000057	0.00041	0.0013	0.7	0.000074	0.000012	1.4	0.022	0.000012	0.00011	0.00015	0.00061	0.003	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2030	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.062	0.000099	0.0013	1.1	0.01	0.0000054	0.00039	0.0011	0.65	0.000069	0.000011	1.3	0.021	0.000011	0.00011	0.00014	0.00057	0.0027	
		July	2031	0.063	0.000099	0.0013	1.2	0.011	0.0000055	0.0004	0.0012	0.66	0.000069	0.000011	1.4	0.021	0.000011	0.00011	0.00015	0.00058	0.0026	
		August		0.063	0.0001	0.0013	1.2	0.011	0.0000056	0.0004	0.0012	0.67	0.000071	0.000012	1.4	0.021	0.000011	0.00011	0.00015	0.0006	0.0027	
		September		0.062	0.00010	0.0013	1.1	0.01	0.0000056	0.00038	0.0011	0.66	0.00007	0.000012	1.3	0.021	0.000011	0.00011	0.00014	0.0006	0.0027	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2032	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.058	0.000093	0.0012	1.1	0.0091	0.0000053	0.00034	0.0011	0.62	0.000065	0.000011	1.2	0.019	0.000011	0.00011	0.00013	0.00057	0.0025	
		July	2033	0.059	0.000094	0.0013	1.1	0.0093	0.0000055	0.00035	0.0011	0.63	0.000066	0.000011	1.2	0.02	0.000011	0.00011	0.00014	0.00058	0.0025	
		August		0.06	0.000097	0.0013	1.1	0.0093	0.0000056	0.00035	0.0011	0.64	0.000068	0.000012	1.3	0.02	0.000011	0.00011	0.00014	0.00059	0.0025	
		September		0.059	0.000096	0.0013	1.1	0.0088	0.0000056	0.00033	0.0011	0.64	0.000067	0.000012	1.2	0.019	0.000011	0.00011	0.00013	0.00059	0.0026	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2034	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.056	0.00009	0.0012	1.0	0.008	0.0000054	0.00029	0.001	0.6	0.000063	0.000011	1.1	0.018	0.000011	0.00011	0.00012	0.00056	0.0024	
		July	2035	0.058	0.000092	0.0012	1.0	0.0081	0.0000055	0.0003	0.001	0.61	0.000065	0.000011	1.1	0.019	0.000011	0.00011	0.00012	0.00058	0.0024	
		August		0.059	0.000094	0.0013	1.1	0.0081	0.0000056	0.0003	0.0011	0.63	0.000066	0.000012	1.2	0.019	0.000011	0.00011	0.00012	0.00059	0.0025	
		September		0.059	0.000094	0.0013	1.0	0.0077	0.0000056	0.00028	0.001	0.62	0.000065	0.000012	1.1	0.018	0.000011	0.00011	0.00012	0.00059	0.0025	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	


https://golderaassociates.sharepoint.com/sites/121081/Project%20Work/02_VB_WQ/Work/Report/Rev0/Appendix%20C31March2020/Effluent_MAM_WTS_DS1_DS2_31March2020

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05					0.004		0.25									0.1	
CCME (CEQG-PAL (chronic)) ² (mg/L)				0.3	0.001					0.000026	0.073	0.025		0.001	0.00025		0.0008		0.015	0.12	0.007	
Constituent				Fe	Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Downstream Node 2 (DS2)	Closure, controlled discharge from pit lake	January	2032	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.056	0.000089	0.0012	0.98	0.0069	0.0000054	0.00025	0.00097	0.59	0.000062	0.000011	1.0	0.017	0.000011	0.00011	0.00011	0.00057	0.0024	
		July		0.058	0.00009	0.0012	1.0	0.0071	0.0000055	0.00026	0.001	0.6	0.000063	0.000011	1.1	0.018	0.000011	0.00011	0.00011	0.00058	0.0024	
		August		0.059	0.000093	0.0012	1.0	0.0071	0.0000057	0.00026	0.001	0.61	0.000065	0.000012	1.1	0.018	0.000011	0.00011	0.00011	0.0006	0.0025	
		September		0.058	0.000092	0.0012	1.0	0.0067	0.0000057	0.00024	0.001	0.61	0.000064	0.000012	1.0	0.018	0.000011	0.00011	0.0001	0.0006	0.0025	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2033	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.056	0.000087	0.0012	0.95	0.0061	0.0000054	0.00022	0.00095	0.57	0.000061	0.000011	0.97	0.016	0.000011	0.00011	0.000095	0.00057	0.0024	
		July		0.058	0.000089	0.0012	0.97	0.0062	0.0000055	0.00022	0.00099	0.59	0.000062	0.000011	0.99	0.017	0.000011	0.00011	0.000098	0.00058	0.0024	
		August		0.059	0.000091	0.0012	0.99	0.0062	0.0000057	0.00022	0.001	0.6	0.000064	0.000012	1.0	0.017	0.000011	0.00011	0.000098	0.0006	0.0025	
		September		0.058	0.000091	0.0012	0.98	0.0059	0.0000057	0.00021	0.00099	0.6	0.000063	0.000012	0.98	0.017	0.000011	0.00011	0.000094	0.0006	0.0025	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2034	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.056	0.000086	0.0012	0.92	0.0054	0.0000054	0.00019	0.00094	0.57	0.00006	0.000011	0.92	0.016	0.000011	0.00011	0.000086	0.00057	0.0024	
		July		0.058	0.000088	0.0012	0.94	0.0055	0.0000055	0.00019	0.00097	0.58	0.000061	0.000011	0.93	0.016	0.000011	0.00011	0.000089	0.00059	0.0024	
		August		0.059	0.00009	0.0012	0.96	0.0055	0.0000057	0.00019	0.00099	0.59	0.000063	0.000012	0.95	0.017	0.000011	0.00011	0.000089	0.0006	0.0025	
		September		0.058	0.00009	0.0012	0.95	0.0053	0.0000057	0.00019	0.00098	0.59	0.000062	0.000012	0.93	0.016	0.000011	0.00011	0.000086	0.0006	0.0025	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2035	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.056	0.000086	0.0012	0.9	0.0048	0.0000054	0.00017	0.00092	0.56	0.000059	0.000011	0.87	0.015	0.000011	0.00011	0.000079	0.00057	0.0024	
		July		0.058	0.000087	0.0012	0.92	0.0049	0.0000056	0.00017	0.00096	0.57	0.00006	0.000011	0.88	0.016	0.000011	0.00011	0.000081	0.00059	0.0024	
		August		0.059	0.000089	0.0012	0.94	0.005	0.0000057	0.00017	0.00098	0.59	0.000062	0.000012	0.9	0.016	0.000012	0.00011	0.000082	0.0006	0.0025	
		September		0.058	0.00009	0.0012	0.93	0.0048	0.0000057	0.00016	0.00096	0.58	0.000062	0.000012	0.89	0.016	0.000012	0.00011	0.000079	0.0006	0.0025	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2036	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.056	0.000085	0.0011	0.88	0.0044	0.0000054	0.00015	0.00091	0.55	0.000059	0.000011	0.83	0.015	0.000011	0.00011	0.000073	0.00057	0.0024	
		July		0.058	0.000086	0.0012	0.91	0.0045	0.0000056	0.00015	0.00095	0.57	0.00006	0.000011	0.85	0.016	0.000011	0.00011	0.000075	0.00059	0.0024	
		August		0.059	0.000089	0.0012	0.93	0.0045	0.0000057	0.00015	0.00097	0.58	0.000061	0.000012	0.86	0.016	0.000012	0.00011	0.000076	0.0006	0.0024	
		September		0.058	0.000089	0.0012	0.92	0.0044	0.0000057	0.00015	0.00095	0.58	0.000061	0.000012	0.85	0.016	0.000012	0.00011	0.000073	0.0006	0.0025	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1			
CCME (CEQG-PAL [chronic]) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004			0.002				
LOCATION	Time Period	Month	Year	Constituent	TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁵	Ca	Cr	Co	Cu ⁶		
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
Downstream Node 2 (DS2)	Closure, controlled discharge from pit lake	January	2037		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		February			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		March			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		April			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		May			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		June			13	0.016	5.8	2.9	0.031	2.2	0.0079	0.01	0.0032	0.018	0.00012	0.0014	0.0051	0.000022	0.000054	0.012	0.0000062	2.5	0.00043	0.00013	0.0006		
		July			14	0.017	5.9	3.0	0.031	2.2	0.008	0.01	0.0033	0.018	0.00013	0.0014	0.0053	0.000022	0.000055	0.012	0.0000063	2.6	0.00046	0.00014	0.00061		
		August			14	0.017	6.1	3.1	0.032	2.3	0.0082	0.01	0.0034	0.019	0.00013	0.0015	0.0054	0.000023	0.000057	0.013	0.0000064	2.6	0.00047	0.00014	0.00063		
		September			14	0.016	6.1	3.0	0.032	2.3	0.0081	0.01	0.0033	0.019	0.00013	0.0014	0.0054	0.000023	0.000057	0.013	0.0000064	2.6	0.00045	0.00014	0.00063		
		October			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		November			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		December			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		January	2038		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		March			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		April			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		May			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		June			13	0.015	5.8	2.8	0.031	2.2	0.0076	0.0095	0.0031	0.018	0.00012	0.0013	0.0051	0.000022	0.000054	0.012	0.0000061	2.5	0.00043	0.00013	0.0006		
		July			13	0.016	5.9	2.9	0.031	2.2	0.0077	0.0096	0.0032	0.018	0.00013	0.0014	0.0052	0.000022	0.000055	0.012	0.0000062	2.5	0.00046	0.00014	0.00061		
		August			14	0.016	6.0	3.0	0.032	2.2	0.0079	0.0098	0.0033	0.019	0.00013	0.0014	0.0053	0.000023	0.000057	0.012	0.0000064	2.6	0.00047	0.00014	0.00063		
		September			14	0.015	6.0	2.9	0.032	2.3	0.0078	0.0097	0.0032	0.019	0.00013	0.0013	0.0053	0.000023	0.000057	0.012	0.0000064	2.6	0.00045	0.00014	0.00063		
		October			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		November			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		December			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		January	2039		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		March			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		April			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		May			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		June			13	0.014	5.7	2.7	0.03	2.1	0.0073	0.0091	0.0031	0.018	0.00012	0.0012	0.005	0.000022	0.000054	0.012	0.0000061	2.4	0.00043	0.00013	0.0006		
		July			13	0.015	5.8	2.8	0.031	2.2	0.0075	0.0092	0.0031	0.018	0.00012	0.0013	0.0052	0.000022	0.000055	0.012	0.0000062	2.5	0.00046	0.00014	0.00061		
		August			14	0.015	6.0	2.9	0.032	2.2	0.0077	0.0094	0.0032	0.019	0.00013	0.0013	0.0053	0.000023	0.000057	0.012	0.0000064	2.6	0.00047	0.00014	0.00063		
		September			14	0.014	6.0	2.8	0.032	2.2	0.0076	0.0093	0.0032	0.019	0.00013	0.0012	0.0053	0.000023	0.000057	0.012	0.0000064	2.6	0.00045	0.00014	0.00063		
		October			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		November			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		December			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		MINIMUM					13	0.014	5.7	2.7	0.03	2.1	0.0073	0.0091	0.0031	0.018	0.00012	0.0012	0.005	0.000022	0.000052	0.012	0.0000061	2.4	0.00043	0.00013	0.0006
		MAXIMUM					21	0.067	7.4	5.8	0.035	3.1	0.017	0.13	0.0055	0.026	0.00016	0.0035	0.007	0.000024	0.000058	0.019	0.0000078	3.6	0.00062	0.00018	0.00068
		AVERAGE					16	0.03	6.4	3.9	0.033	2.5	0.011	0.032	0.004	0.02	0.00014	0.0021	0.0058	0.000023	0.000055	0.014	0.0000068	2.9	0.00048	0.00015	0.00063

Notes:
¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells
²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEQG's shown in bold-underlined type
³CEQG Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed
⁴CEQG Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.
⁶CEQG Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 11 mg/L.
⁷ The CEQG aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)																			1.0	0.05					0.004		0.25										0.1
CCME (CEQG-PAL (chronic)) ² (mg/L)																			0.3	0.001					0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	0.007
Constituent																			Fe	Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L																
Downstream Node 2 (DS2)	Closure, controlled discharge from pit lake	January	2037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																
		June		0.056	0.000084	0.0011	0.87	0.004	0.0000055	0.00013	0.00091	0.55	0.000058	0.000011	0.8	0.015	0.000011	0.00011	0.000068	0.00057	0.0024																
		July		0.058	0.000086	0.0012	0.89	0.0041	0.0000056	0.00014	0.00094	0.56	0.000059	0.000012	0.82	0.015	0.000011	0.00011	0.00007	0.00059	0.0024																
		August		0.059	0.000088	0.0012	0.91	0.0041	0.0000057	0.00014	0.00096	0.57	0.000061	0.000012	0.83	0.016	0.000012	0.00011	0.000071	0.0006	0.0024																
		September		0.058	0.000088	0.0012	0.9	0.004	0.0000057	0.00013	0.00095	0.57	0.000061	0.000012	0.83	0.015	0.000012	0.00011	0.000069	0.0006	0.0025																
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																
		January	2038	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																	
		June		0.056	0.000084	0.0011	0.86	0.0037	0.0000055	0.00012	0.0009	0.54	0.000058	0.000011	0.78	0.014	0.000011	0.00011	0.000064	0.00058	0.0024																
		July		0.058	0.000085	0.0012	0.88	0.0038	0.0000056	0.00012	0.00093	0.56	0.000059	0.000012	0.79	0.015	0.000011	0.00011	0.000066	0.00059	0.0024																
		August		0.059	0.000088	0.0012	0.9	0.0038	0.0000057	0.00013	0.00095	0.57	0.000061	0.000012	0.81	0.015	0.000012	0.00012	0.000067	0.00061	0.0024																
		September		0.058	0.000088	0.0012	0.89	0.0037	0.0000058	0.00012	0.00094	0.57	0.00006	0.000012	0.8	0.015	0.000012	0.00012	0.000065	0.0006	0.0025																
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																
		January	2039	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																
		June		0.056	0.000084	0.0011	0.85	0.0034	0.0000055	0.00011	0.00089	0.54	0.000057	0.000011	0.76	0.014	0.000011	0.00011	0.000061	0.00058	0.0024																
		July		0.058	0.000085	0.0012	0.87	0.0035	0.0000056	0.00011	0.00093	0.55	0.000059	0.000012	0.77	0.015	0.000011	0.00011	0.000063	0.00059	0.0024																
		August		0.059	0.000087	0.0012	0.89	0.0036	0.0000058	0.00011	0.00095	0.57	0.00006	0.000012	0.79	0.015	0.000012	0.00012	0.000064	0.00061	0.0024																
		September		0.058	0.000088	0.0012	0.89	0.0035	0.0000058	0.00011	0.00094	0.57	0.00006	0.000012	0.78	0.015	0.000012	0.00012	0.000062	0.00061	0.0025																
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																
		MINIMUM			0.056	0.000084	0.0011	0.85	0.0034	0.0000053	0.00011	0.00089	0.54	0.000057	0.000011	0.76	0.014	0.000011	0.00011	0.000061	0.00056	0.0024															
		MAXIMUM			0.071	0.00011	0.0014	1.2	0.011	0.0000059	0.00043	0.0013	0.71	0.000075	0.000013	1.5	0.023	0.000012	0.00012	0.00015	0.00063	0.0035															
		AVERAGE			0.06	0.000093	0.0012	1.0	0.0066	0.0000056	0.00024	0.001	0.61	0.000064	0.000012	1.0	0.017	0.000011	0.00011	0.00010	0.00059	0.0026															

Notes:
¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells
²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEQG's shown in bold-underlined type
³CEQG Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed
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⁷ The CEQG aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)



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APPENDIX E • 2020 FRESHET ACTION PLAN



AGNICO EAGLE

MEADOWBANK GOLD MINE

FRESHET ACTION AND INCIDENT RESPONSE PLAN

WHALE TAIL PROJECT

MARCH 2020

VERSION 2

EXECUTIVE SUMMARY

The purpose of this Action and Response Plan is to identify areas of concern around the Whale Tail Pit mine site and the associated Hauling road that need to be managed in an organized and timely manner during the annual freshet period to prevent adverse environmental and operational impacts. The Incident Response section of the Plan outlines any future incidents that have the potential to affect off site water or land will be added and would include any specific mitigation and monitoring actions.

The freshet period typically occurs during the annual snow and ice melt sometime around mid-May and extends until the end of July. 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, WRSF Pond, North-East Sector and the Whale Tail Attenuation Pond.

It is important that all water management and associated infrastructure 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, adequate resource allocation for preparative work and establishing a viable monitoring program for the areas of concern and incident response locations. A summary of the 2020 preparation works and roles and responsibilities is presented in the attached Appendix 1 (2020 Freshet Action Plan Procedures). Appendix 1 will be updated yearly to reflect changes in conditions at the Whale Tail site.

DOCUMENT CONTROL

#	Revision			Pages Revised	Remarks
	Prep.	Rev.	Date		
01	Agnico	Internal	March 2019	All	Initial Version
02	Agnico	Internal	March 2020	All	Comprehensive update from 2019 plan

Prepared By: Meadowbank Environment

Approved by:



Robin Allard, General Supervisor Environment

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Figure 2-1: View of Whale Tail area with the associated pumps and trenches 8

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Appendix 1 - 2019 Freshet Action Plan Procedure

1 INTRODUCTION

The purpose of this Whale Tail (WT) Freshet Action and Incident Response 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 off site impacts to water or land.

The freshet season is loosely defined as being a period of time from approximately May 15 – July 30; in some cases this period of time can extend up to early fall when freezing re-occurs (October 15). There are many areas around the site that are vulnerable to this excess water; the goal is to identify these areas and develop a clear plan with defined roles and responsibilities (among 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 mine contact water from runoff or seepage is managed to prevent adverse environmental impacts;
- 2) to ensure that the health and safety of Agnico employees is protected, especially with respect to mining operations when excess water is present; 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. An adaptive strategy had been designed at the Whale Tail site to ensure sufficient mitigation measures are in place to prevent potential 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 2019 procedures, the roles and responsibilities and associated timelines. Agnico's intent is to update the Procedural Appendix on a yearly basis. For example, 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;
- WRF pond;
- A53 pond;
- East channel;;
- North-East Sector;
- Attenuation pond;
- WT Tank farm;
- Haul road culverts and bridges;

- Whale Tail South Channel;
- Whale Tail Dike seepage system;
- Pads and roads built since 2019;
- Exploration and underground related infrastructures, if needed.

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

Figure 2-1 presents the general layout of the Whale Tail area.

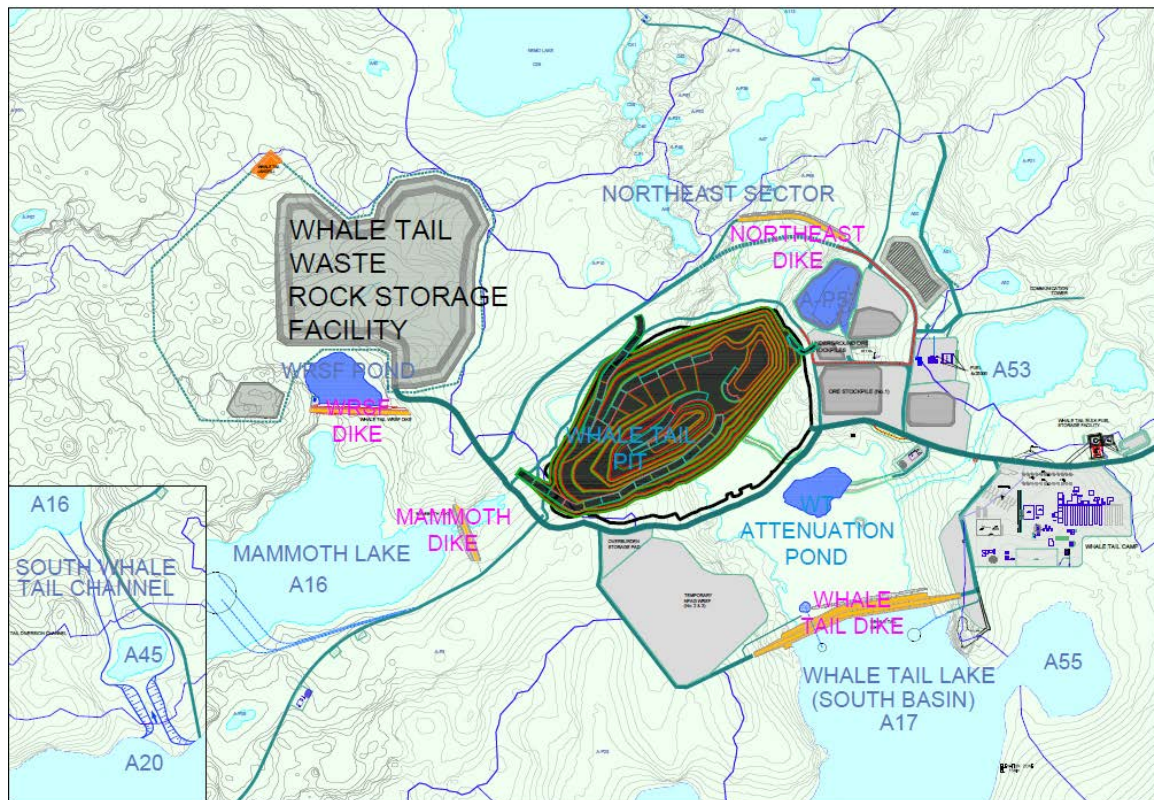


Figure 2-1: View of Whale Tail area

2.1 MINING PITS AND PIT WALLS

All permanent 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 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 by validating pumping values (if pumping systems are active) and/or performing an air test in the pipe with a compressor.

Water management strategy in the Whale Tail pit will be to send as much water as possible to the Quarry 1, prior to the commissioning of the Whale Tail Attenuation pond, without impacting mining sequence.

- A pond and ditch system is planned in the pit. Runoff water accumulated in these pond will be pumped into Quarry 1, until the expanding mining footprint reaches it. At that time, Attenuation pond will be commissioned, and contact water will be managed through it.

Infrastructures might be modified or added within the actual trench and sumps footprint in such a way to prevent water from ponding against the pit crest;

- Long term sumps outside of critical pit areas are planned within the Whale Tail Pit footprint in order to facilitate pit water management.

2.2 WHALE TAIL ROCK STORAGE FACILITY

The Whale Tail Rock Storage Facility (RSF) 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 RSF, it must be reported to the Engineering and Environment Departments and samples must be taken to determine the water quality and source. A mitigation plan will be prepared and implemented if necessary. A sump is located at the toe of the RSF and water will be pumped to the WT Attenuation pond when required. In August 2019, seepage from the WRSF pond was found to have reported through the WRSF Dike to the Mammoth lake. See section 3.1 for further details.

2.3 A53 LAKE

Water management around A53 will required regular inspection to ensure impacts are limited, to maintain integrity of structure and to prevent any adverse environmental impacts. Inflows of water will be monitored for the lake immediate watershed to ensure erosion and sediments are not impacting the waterbody.

2.4 EAST CHANNEL

The East Channel structure was postponed in 2019. As a result, in 2020, water will be pumped, as a changed of conveyance, from the source (Lake A53) to Whale tail South, to manage the pond elevation, and avoid overflow towards Whale Tail North Basin.

2.5 NORTH-EAST SECTOR

In 2019, the initial water management strategy of North-East Sector to let water accumulate against North-East Dike and flood into the C-Watershed was found to be ineffective. During a routine inspection in July 2019, a discrepancy between modelled topography and actual topography found the design of the dike not allowing overflow into the C-Watershed. Water was then pumped into the Whale Tail property, and managed accordingly, until sustained significant precipitation placed too much stress onto the site water management system. In August 2019, authorization was received to change the conveyance of the original design, and physically pump water from the North-East Sector into the C-Watershed, water quality permitting. In 2020, it is planned to dismantle this structure. Until then, water in the North-East Sector will be manage in a similar fashion to 2019. Water will be maintained to an elevation allowing sufficient capacity to retain dike design flood event. Water will be maintained at that elevation by pumping to the C-

Watershed, water quality permitting. Discharge area will be monitored for erosion and adverse environmental conditions.

2.6 WHALE TAIL ATTENUATION POND

The Whale Tail Attenuation Pond will be commissioned when contact water will be sent in this location instead of Quarry 1, which is currently used as the site's main contact water sump. Water from the WT Attenuation pond will be management as contact water and treated, if necessary, through the AsWTP and the water discharged towards Mammoth Lake. Representing the main water collection structure for 2020, the attenuation water levels will be managed closely and be inspected regularly at freshet.

Discharge from the WT attenuation pond to Mammoth Lake may require treatment at the OWTP if the water quality did not meet discharge criteria, Water License and MDMER criteria, for the Attenuation Pond discharge. The plant's treatment abilities was 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.

2.7 WHALE TAIL FUEL TANK FARMS

The main fuel farm containments were built in 2019, and 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 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. 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 or placed in containers for shipment south as hazmat.

2.8 HAUL ROAD CULVERTS AND BRIDGES

Daily and Weekly inspections will be undertaken starting in May at all culverts 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.

2.9 SOUTH WHALE TAIL DIVERSION CHANNEL

The South Whale Tail Diversion Channel will be constructed prior to freshet 2020. This channel will allow water from the Whale Tail South watershed (2,400 ha) to report to Mammoth Lake, and subsequent lakes. In 2020, the channel will be in its first year of operation. As a result, significant attention and monitoring will be required. A risk assessment of the structure identified possible increase of TSS in Mammoth Lake as a risk. In order to minimize potential generation of TSS in water travelling through the channel, Agnico Eagle mandated SNC-Lavalin for the design of turbidity barriers, to be implemented within Mammoth Lake, as a mitigation measure. 2 barriers are to be installed prior to freshet, and can be seen in Figure 2-2. Additional measures may be required. Daily inspection will be conducted starting in May until Freshet is complete, and following rain events.

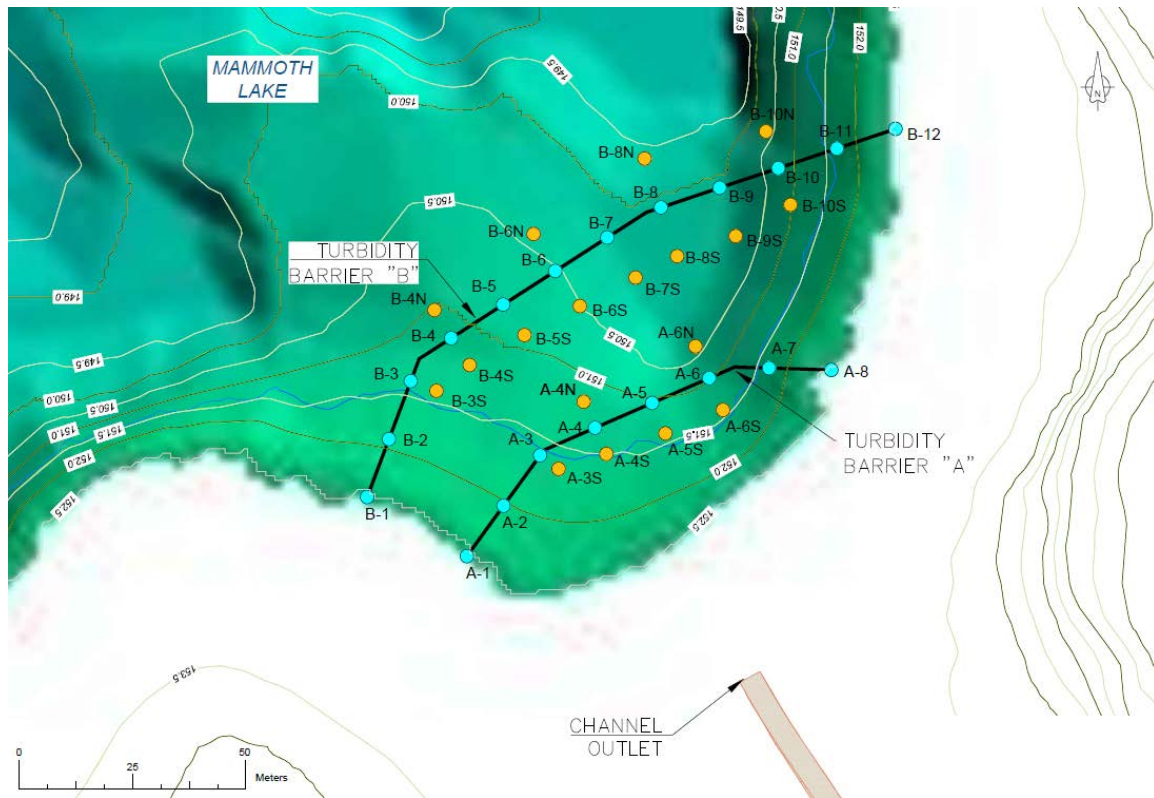


Figure 2-2: Turbidity Barrier Location

2.10 2019-2020 PAD AND ROAD CONSTRUCTION

In 2019-2020, as the site began production, many pads and roads were built around site that will endure their first snowmelt. Weekly inspections at the start of snowmelt will be required to monitor for potential erosion and sediment transport. Mitigation measure may be required to minimize transport of sediments towards water bodies. See below for a list of such constructions:

- Access road between Road 7 and WRSF;
- Haul truck parking;
- WRSF Dike seepage water collection system;
- Whale Tail Dike seepage water collection system;
- NAG stockpile;
- Whale Tail South Channel access road;
- Whale Tail North Dewatering Ramp;

- Whale Tail main camp pad extension;
- WRSF ring road;
- Whale Tail Pit ring road.

3 INCIDENT RESPONSE

3.1 WRSF POND SEEPAGE

In August 2019, water originating from the WRSF Pond seeped through the dike and reported to the Mammoth 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 into WRSF pond. Furthermore, WRSF Pond was emptied and maintained dry. Downstream pumping stopped on September 30th, when the reporting flow and surrounding had frozen. In October 2019, the KIA conducted a sample analysis of the lake bed sediments in Mammoth Lake. The report concluded the seepage did not have a measureable impact on metal quantities of the Mammoth Lake sediments. Prior to freshet 2020, the following actions are to be taken:

- Water level will be kept as low as possible in the WRSF pond throughout 2020, as recommended by the MDRB;
- Promotion of permafrost penetration into the dikes foundation by:
 - o Snow removal at the toe of the structure;
 - o Addition of thermal cover on the upstream portion of the dike;
 - o Assessment of freeze back performance with periodic instrumentation review;
- A downstream water collection system will be designed and constructed;
- Various environmental monitoring program:
 - o Monthly limnology profile of Mammoth Lake during winter and open water conditions;
 - o Mammoth Lake to be included in a Core receiving environmental monitoring program; and
 - o A sediment sampling campaign to be executed at Mammoth Lake.

3.2 ADAPTIVE WATER MANAGEMENT STRATEGY

An Adaptive Water Management Plan will be 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 would be reviewed periodically to account for the dynamics of mine construction and operation, and to adjust the adaptive management strategy 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

Similarly to the Meadowbank site, a snow management procedure has been developed internally in 2019 and will be updated annually. Temporary snow storage dumps and snow accumulation areas of concern were identified on a map. Removal will be managed accordingly.



APPENDIX 1

2020 Freshet Action Plan Procedure

Section	Area of Concern	Role/Action	Responsibilities	Dates
2.1 Mining Pits and Pit Walls				
2.1	Mining Pit and Pit walls - General	1) 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 Quarry 1 and the Attenuation pond are free of ice by validating pumping values (if pumping systems is active) and/or performing an air test in the pipe with a compressor.	E&I/Mine Operations	Before May
2.2 WASTE ROCK STORAGE FACILITY				
2.2.	WT RSF Inspection	1) Complete WRSF ring road prior to Freshet	Mine Operations	May 15 th
		2) Weekly inspection around the RSF perimeter to identify any seepage.	Env. Department	May - as soon as freshet starts until freeze up
		3) Pump if required from the WRSF periphery to WRSF Pond	E&I	May - as soon as freshet starts until freeze up

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		4) If seepage observed notify Eng and Env Department AND sample for Water License Parameters.	Env. Department	May - as soon as freshet starts until freeze up
2.3	A53			
2.3	A53	1) Daily inspection - keep record	Env. Department	May - until freshet complete and after rain events
		2) Install turbidity barriers, if needed (elevated TSS observed), and maintain	Env. Department	May - until freshet complete and after rain events
		3) 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 ECCC/NWB (if grab > 30 mg/L).	Env. Department	May - until freshet complete and after rain events
2.4	East Channel			
2.4	East channel	1) No Action Required as structure is not built	N/A	N/A

2.5 North-East Sector				
2.5	North-East Sector to C-Watershed	1) Daily inspection on startup, then weekly keep record	Env. Department	May - until freshet complete and after rain events
		2) Install turbidity barriers, if needed (elevated TSS observed), and maintain	Env. Department	May - until freshet complete and after rain events
		3) 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 Nemo to ECCC/NWB (if grab > 30 mg/L).	Env. Department	May - until freshet complete and after rain events
2.6 WT Attenuation pond				
2.6 WT Attenuation Pond		1) During the freshet period water management consists of making sure all sumps are pumped to the Attenuation Pond.	Mine Operations	May to Sept

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	2) Set-up pumping Attenuation Pond to prevent water from flowing into the pit area.	Mine Operations	May
	3) Notify Environmental Department before discharging any water to Mammoth Lake. NOTE: Any discharge of contact water must be through the Diffuser.	Engineering/E&I	At all time
	4) Inspect all piping and discharge diffuser	E&I	May
2.7 FUEL TANK FARMS			
2.7 WT Tank Farm	1) 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
	2) Sample water in accordance with Water License to ensure compliance with limits prior to release.	Env. Department	Probably mid-June and September
	3) Provide notice to Inspector 10 days prior to pumping.	Env. Department	Probably mid-June and September
	4) 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	E&I	Probably mid-June and

		tundra if it does not meet the Water License criteria.	September	
2.9 SOUTH WHALE TAIL DIVERSION CHANNEL				
2.9	South Whale Tail Diversion Channel	1) Daily inspection - keep record	Env. Department	May - until freshet complete and after rain events
		2) Install turbidity barriers as per SNC design	Construction	Prior to freshet
		3) Install mitigation measures, if needed (elevated TSS observed), and maintain	Env. Department	May - until freshet complete and after rain events
		4) Sample monitoring for TSS, if excess turbidity observed - use external lab.	Env. Department	May - until freshet complete and after rain events
		5) 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
2.10 RECENT PAD AND ROAD CONSTRUCTIONS				
2.10	Recent pad and road constructions	1) Weekly inspection of toes of constructions built in the last year.	Env. Department	May and after rain events

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	2) Sample for TSS and Turbidity if elevated TSS observed.	Env. Department	May - until freeze up	
	3) Notify E&I Dept if severe erosion/scouring observed - for repair action.	Env. Department	May - until freeze up	
	4) Install mitigation measures if required.	Env. Department	May - until freeze up	
3.0 INCIDENT RESPONSE				
3.1	WRSF Pond Seepage	1) Daily inspection - keep record	Env. Department	May - until freshet complete and after rain events
		2) Maintain WRSF Pond as dry as possible	E&I	May - until freeze up
		3) Pump any water reporting to the WRSF downstream water collection system – Volumes required to be documented	E&I/Engineering	May - until freeze up
		4) Sample upstream and downstream	Env. Department	May - until freeze up
		5) 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



APPENDIX 2

2020 Area of Concern for the Freshet Action and Incident Response Plan