

## **APPENDIX 8-A**

**Addendums for Mine Infrastructure Management Plans** 





8-A.1: Mine Waste Rock and Tailings Management Plan



## **ADDENDUM**



Project Name:	Meadowbank Gold Project				
Plan / Version:	Mine Waste Rock an Management Plan	d Tailings	Version WT; June 2016		
NIRB Requirement:	Project Certificate No. 004	Condition: not applicable			
NWB Requirement:	2AM-MEA-1525		Condition: Part B, Item 13 Part F, Item 19 Part I, Item 9		
Addendum:					
Section Change	Specify: Update or New	Details			
Appendix 2	New	WT Addendum			



**Meadowbank Division** 

Mine Waste Rock and
Tailings Management Plan –
Whale Tail Pit Addendum

JUNE 2016 VERSION WT

## **EXECUTIVE SUMMARY**

Agnico Eagle Mines Limited – Meadowbank Division (Agnico Eagle) is proposing to develop the Whale Tail Pit and Haul Road Project (Project), a satellite deposit located on the Amaruq property, to continue mine operations and milling at Meadowbank Mine.

The proposed open pit mine, mined by truck-and-shovel operation, will produce 8.3 million tonnes (Mt) of ore, 46.1 Mt of waste rock, and 5.6 Mt of overburden waste. There are four phases to the development: 1 year of construction, 3 years of mine operations, 8 years of closure, and the post-closure period. According to the Whale Tail Pit Life of Mine (LOM) calculation, the addition of the Whale Tail Pit to the actual Meadowbank LOM (LOM 2015) will generate an addition of approximately 8.3 Mt (dry) of tailings to the Meadowbank Tailings Storage Facility (TSF) for a total of 35.4 Mt.

Project mining facilities include accommodation buildings; two ore stockpiles; one overburden stockpile; one waste rock storage facility (WRSF) area planned to receive waste rock and waste overburden; a water management system that includes collection ponds, water diversion channels, and retention dikes/berms; and a Water Treatment Plant.

One area, located north-west of the open pit, has been identified as the Whale Tail WRSF. Waste rock and overburden will be trucked to the Whale Tail WRSF until the end of mine operations, with distribution according to the operations schedule. Waste rock and overburden will be co-disposed together in one of the two piles constituting the Whale Tail WRSF area. Results of geochemical testing indicate that approximately 73% of the waste rock and overburden produced is potentially acid generating and/or metal leaching. The remaining 27% is non-potentially acid generating and non-metal leaching and can be used as construction material for pads, roads, water management infrastructures, and reclamation. Closure of the Whale Tail WRSF will begin when practical as part of the progressive reclamation program. The Whale Tail WRSF will be covered with non-potentially acid generating and non-metal leaching waste rock to promote freezing as a control strategy against acid generation and migration of contaminants. Thermistors will be installed within the Whale Tail WRSF to monitor permafrost development.

Ore will be stockpiled on the three Ore Stockpiles planned for the Project. Ore is potentially acid generating. The Ore Stockpiles will be reclaimed at the end of the operations.

The Whale Tail WRSF and the Ore Stockpiles were designed to minimize the impact on the environment and to consider geotechnical and geochemical stability. The surface runoff and seepage water from these facilities will be collected in water collection ponds as part of the water management strategy. If water quality does not meet the discharge criteria as per the Water Licence requirement, the collected water will be treated prior to being discharged to the outside environment.

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Tailings from the Project will be stored in the Meadowbank TSF, which consists of a North Cell and South Cell located within the basin of the former north-west arm of Second Portage Lake previously dewatered to allow mining in the Portage Pit. To store the full volume of tailings from processing of the Whale Tail Pit ore, Agnico Eagle will maximize storage in South cell through the deposition of approximately 5.3 Mt of tailings, and is proposing to construct internal dike structures to store the remaining 3 Mt within the current footprint of the North Cell.

The tailings deposition plan has been optimized to target tailings deposition in the North Cell TSF during summer, and in the South Cell TSF during winter to reduce the impact of cold climate on the tailings dry density. Tailings deposition within the North Cell raise will continue as a sub-aerially slurry placement, and water from the pond will be reclaimed during operations. The current tailings deposition strategy is to build beaches against the face of the perimeter dikes to eliminate ponding and ultimately produce a tailings surface that directs drainage towards the western abutment of the Stormwater Dike.

The control strategy to minimize water infiltration into the TSF and the migration of constituents out of the facility in closure and post-closure includes freeze control of the tailings through permafrost encapsulation. Consistent with approved interim closure plans for Meadowbank, a minimum of a 2-metre thick cover of non-potentially acid generating rockfill will be placed over the tailings as an insulating convective layer to confine the active layer within relatively inert materials. The final thickness of the rockfill cover layer will be confirmed in the final closure design based on thermal monitoring to be completed during operations.

Pit flooding volumes and sequencing (including Portage, Goose, and Vault pits) updated for the revised mining schedule including Whale Tail Pit are presented in this report. An updated water quality forecasting model is also presented in this report. Based on the modelling results, copper, selenium, and total nitrogen may require removal treatment in order for the pit water quality to meet Canadian Council of Ministers of the Environment criteria prior to dike breaching in 2029.



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## **DOCUMENT CONTROL**

Version	Date (YM)	Section	Page	Revision
1	May 2016	ALL	-	
Rev 1	05-04-2016	Tailings Section	-	T Lepine, F Petrucci, R Vanengen
WT	06-15-2016	ALL	-	Agnico Eagle and Golder Associates Ltd.

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#### **ACRONYMS**

Agnico Eagle Agnico Eagle Mines Limited – Meadowbank Division

ARD Acid Rock Drainage

CCME Canadian Council of Ministers of the Environment

FEIS Final Environmental Impact Statement

IPCC Intergovernmental Panel on Climate Change

LOM Life of Mine

ML Metal Leaching

NML Non-Metal Leaching

NPAG Non-Potentially Acid Generating

NWB Nunavut Water Board

PAG Potentially Acid Generating PGA peak ground acceleration

Project Whale Tail Pit and Haul Road Project

SWD Stormwater Dike

TSF Tailings Storage Facility
WRSF Waste Rock Storage Facility
WTP Water Treatment Plant

## **UNITS**

% percent

°C degrees Celsius

°C/m degrees Celsius per metre

g gram
ha hectare
km kilometre(s)

km<sup>2</sup> square kilometre(s)

m metre

masl metre above sea level

mm millimetre m³ cubic metre(s)

m³/hr cubic metre(s) per hour
Mm³ million cubic metre(s)
Mt million tonne(s)

t tonne

t/day tonne(s) per day

t/m³ tonne(s) per cubic metre



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#### **SECTION 1 • INTRODUCTION**

Agnico Eagle Mines Limited – Meadowbank Division (Agnico Eagle) is proposing to develop the Whale Tail Pit and Haul Road Project (Project), a satellite deposit located on the Amaruq property, to continue mine operations and milling at Meadowbank Mine. Agnico Eagle is seeking approval to extend Meadowbank Mine to include development of resources from Whale Tail Pit. Concurrent with the reconsideration of the Project Certificate by the Nunavut Impact Review Board, Agnico Eagle is seeking from the Nunavut Water Board (NWB) an amendment to Meadowbank Mine Type A Water Licence (No. 2AM-MEA1525) to include mining of Whale Tail Pit and construction and operations of associated infrastructure.

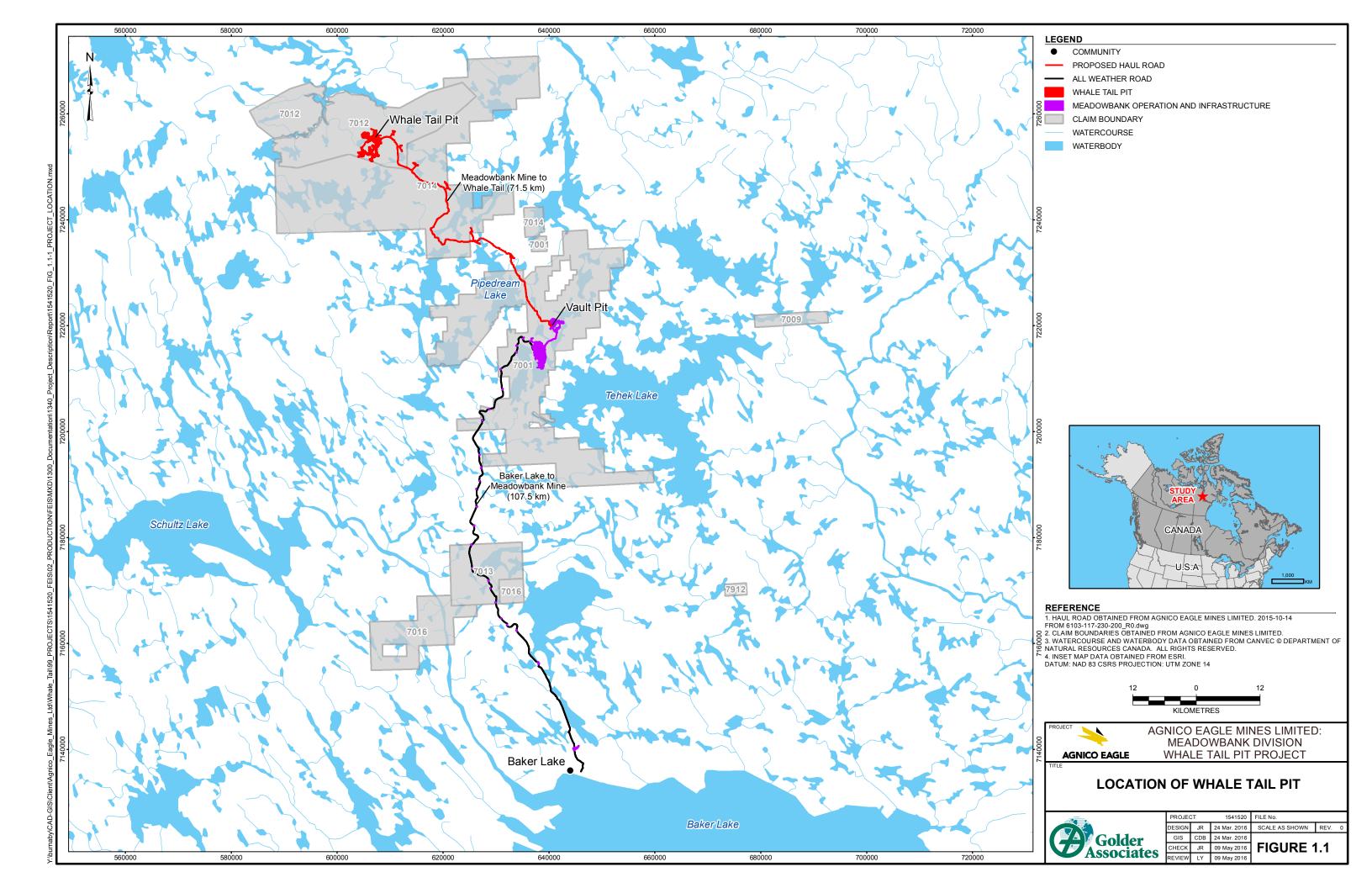
The Amaruq property is a 408 square kilometre (km²) site located on Inuit Owned Land approximately 150 kilometres (km) north of the hamlet of Baker Lake and approximately 50 km northwest of Meadowbank Mine in the Kivalliq Region of Nunavut. The deposit will be mined as an open pit (i.e., Whale Tail Pit),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

The proposed open pit mine, mined by truck-and-shovel operation, will produce 8.3 million tonnes (Mt) of ore, 46.1 Mt of waste rock, and 5.6 Mt of overburden waste. There are four phases to the development: 1 year of construction, 3 years of mine operations, 8 years of closure, and the post-closure period.

The general mine site location for the Project and a site layout plan are shown in Figure 1.1. The mine development will include the following major infrastructure:

- industrial area (camp and garage);
- crusher;
- ore stockpiles;
- rock and overburden storage facilities;
- landfill:
- haul and access roads:
- open pit mine; and
- water dewatering dikes.





This document presents the Mine Waste Rock and Tailings Management Plan (the Plan) to support the application to amend the NWB Type A Water Licence to include Whale Tail Pit. Upon approval, this will meet the requirements of the Type A Water Licence Part B General Conditions – Item 13.u. The purpose of the Plan is to provide consolidated information on the management of tailings, ore stockpiled on site, waste rock and overburden, including strategies for runoff and dust control and monitoring programs for the storage facilities. Also included within the Plan, is updated pit flooding volumes, sequencing and water quality estimates (including Portage, Goose, and Vault pits) to account for the revised mining schedule including Whale Tail Pit are presented in this report. It is important to note that as the ore will be transported and processed at Meadowbank Mine, and resulting tailings will be stored within the existing Meadowbank tailings storage facility (TSF) (Figure 1.2).

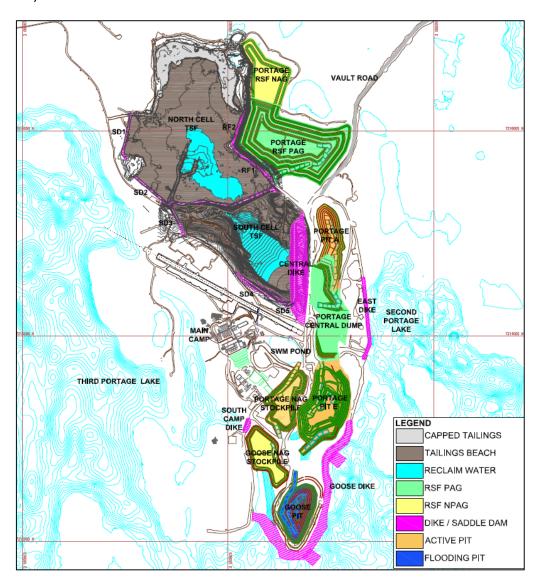


Figure 2.2 Meadowbank Tailings Storage Facility

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#### **SECTION 2 • BACKGROUND INFORMATION**

## 2.1 Meadowbank Mine Operations

The Meadowbank Mine consists of various pits (Goose, Portage, Vault, Phaser, and BB Phaser pits), two Waste Rock Storage Facilities (WRSFs) (Portage and Vault), the Meadowbank Mill, Meadowbank camp, and the Meadowbank TSF. Mining of Portage Pit began in early 2010 and operated as a truck-and-shovel open pit operation under the terms established by the Type A Water Licence. As a requirement of the Type A Water Licence, any modifications to the dewatering process, LOM, TSF, and any other aspect associated to the water management at Meadowbank are adhered to and updated in the annual submission of the Meadowbank Water Management Plan and associated water balance. According to the current reserve at Meadowbank, and in the absence of Whale Tail Pit, operations within the approved Meadowbank TSF are scheduled to cease in Q3 2018 with closure and post-closure activities occurring thereafter.

#### 2.2 Whale Tail Pit Mine Operations

The construction phase is anticipated to start in the second quarter of Year -1 (2018) and focus on site preparation and the construction of infrastructure, with the development of a quarry (Quarry 2) located in the open pit to produce construction material. The operations (mining and ore processing) will continue approximately 3 years, from Year 1 (2019) to Year 4 (2022), with a rate of extraction targeted between 9,000 and 12,000 tonnes per day (t/day) of ore at an average stripping ratio of 6,25. Mining activities are expected to end in Year 3 (2021) and ore processing is expected to end during the first quarter of Year 4 (2022). Closure will occur from Year 4 (2022) to Year 11 (2029) after the completion of mining and will include removal of the non-essential site infrastructure and flooding of the mined-out open pit, as well as reestablishment of the natural Whale Tail Lake level. Post-closure and monitoring phases will commence as closure is completed in Year 11 (2029) and will continue until Year 15 (2034) or it is shown that the site and water quality meets regulatory closure objectives. Table 2.1 summarizes the Project timeline and general activities.



Phase	Year	General Activities
		Construct site infrastructure
Construction	Year -1	Develop open pit mine
		Stockpile ore
		Open pit operations
	Year 1 to 3	Transport ore to Meadowbank Mine
		Stockpile ore
Operations		Discharge Tailings in Meadowbank TSF
	Year 4	Complete transportation of ore to Meadowbank Mine
	Teal 4	Complete discharge tailings in Meadowbank TSF
		Remove non-essential site infrastructure
Closure	Year 4 to 11	Flood mined-out open pit
		Re-establish natural Whale Tail Lake level
Post-Closure	Year 11 forwards	Site and surrounding environment monitoring

Table 2.1 Overview of Timeline and General Activities

TSF = Tailings Storage Facility

## 2.3 Whale Tail Pit Site Layout

Site layouts are presented in Appendix A.

## 2.4 Climate

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

The Project is located in an arid arctic environment that experiences extreme winter conditions, with an annual mean temperature of -11.3 degrees Celsius (°C). The monthly mean temperature ranges from -31.3°C in January to 11.6°C in June, with above-freezing mean temperatures from June to September. The annual mean total precipitation at the Project is 249 millimetres (mm), with 59 percent (%) of precipitation falling as rain, and 41% falling as snow. Mean annual losses were estimated to be 248 mm for lake evaporation, 80 mm for evapotranspiration, and 72 mm for sublimation. Mean annual temperature, precipitation, and losses characteristics are presented in Table 2.2.

Short-duration rainfall events representative of the Project are presented in Table 2.3, based on intensity-duration-frequency curves available from the Baker Lake A meteorological station (Station ID 2300500) operated by the Government of Canada (2015).

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

**Table 2.2** Estimated Mine Site Monthly Mean Climate Characteristics

mm = millimetre; °C = degrees Celsius.

Table 2.3 Estimated Mine Site Extreme 24-Hour Rainfall Events

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

<sup>&</sup>lt;sup>a</sup> SNC (2015).

mm = millimetre.

## 2.5 Climate Change

Climate change information presented herein was extracted from the Final Environmental Impact Statement (FEIS) Amendment, Volume 4, Section 4.2.

The climate in the Arctic is changing faster than at mid-latitudes (IPCC 2014). The most recent set of climate model projections (CMIP5) predict an Arctic-wide year 2100 multi-model mean temperature increase of +13°C in late fall and +5°C in late spring under the Intergovernmental Panel on Climate Change (IPCC)'s "business as usual scenario" (RCP8.5). IPCC climate change mitigation scenario RCP4.5 results in a year 2100 multi-model Arctic wide prediction of +7°C in late fall and +3°C in late spring (Overland et al. 2013). The effects of changes of this magnitude to terrestrial, aquatic and



a SNC (2015).

marine ecosystems, and social and economic systems of the Arctic are an active area of research. However, due to the short duration of the proposed Project, climate change related effects to the Project are likely negligible.

#### 2.6 Permafrost

The mine site is located in an area of continuous permafrost, as shown on Figure 2.1. Based on measurements of ground temperatures (Knight Piésold 2015), the depth of permafrost at the mine site is estimated to be in the order of 425 metres (m) outside of the influence of waterbodies. The depth of the permafrost and active layer will vary based on proximity to the lakes, overburden thickness, vegetation, climate conditions, and slope direction. The typical depth of the active layer is 2 m in this region of Canada. The typical permafrost ground temperatures at the depths of zero annual amplitude (typically at the depth of below 15 m) is approximately -8.0 °C in areas away from lakes and streams. The geothermal gradient measured is 0.02 degrees Celsius per metre (°C/m) (Knight Piésold 2015). Late-winter ice thickness on freshwater lakes is approximately 2.0 m. Ice covers usually appear by the end of October and are completely formed in early November. The spring ice melt typically begins in mid-June and is complete by early July.

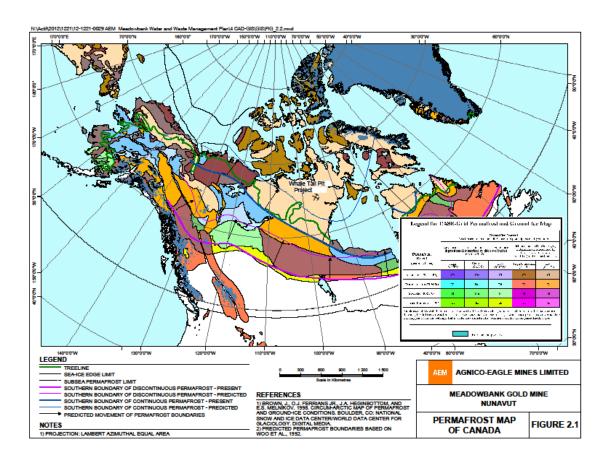


Figure 2.3 Permafrost Map of Canada

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## 2.7 Seismic Zone

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



#### **SECTION 3 • WHALE TAIL PIT DEVELOPMENT PLAN**

#### 3.1 Whale Tail Pit Life of Mine

Several LOM scenarios were analysed by Agnico Eagle, which ultimately retained the best one based on economic viability of the Project. The chosen scenario is not expected to change significantly from that existing at Meadowbank, and will remain on average 9,000 t/day and up to a peak mill throughput of 12,000 t/day (which is the current rate capacity at Meadowbank Mill). Milling will end as the maximum capacity of the current TSF is reached (8.3 Mt). Table 3.1 summarizes the Whale Tail Pit LOM.

Table 3.1 Projected Whale Tail Pit Mined Tonnages

Year	Period	Ore Mined (t)	Ore Processed in Mill (t)	Production Days	
2018		160,020	-	-	
	Q1	366,229	-		
2019	Q2	610,012	-	184	
2019	Q3	418,663	821,250	184	
	Q4	895,072	821,250		
	Q1	800,463	821,250		
2020	Q2	931,458	821,250	266	
2020	Q3	763,882	821,250	366	
	Q4	856,512	821,250		
2021		2,476,834	3,285,000	365	
2022		0	66,644	8	
Total		8,279,144	8,279,144	923	

t = tonne.

As an extension of the current Meadowbank LOM, the Whale Tale Pit deposition plan is proposed to be a continuation of the current Meadowbank deposition plan according to the Whale Tail Pit production rates and mill feed presented in Table 3.1. Completion of the Meadowbank LOM milling activities will occur in Q3 2018.

The tailings management plan presented in Section 8.5 focuses on the year 2019 to 2022 and presents only the tailings management strategy required for the extension of the Meadowbank actual LOM to accommodate Whale Tail Pit tailings.

## 3.2 Mine Waste Production Sequence

Two mine waste streams will be produced at Whale Tail Pit, waste rock and overburden. A third mine waste stream, tailings, will be produced at Meadowbank Mine. Approximately 46.1 Mt of waste rock, 5.6 Mt of overburden, and 8.3 Mt of tailings (or mined ore) will be generated by the Project (Tables 3.2 and 3.3).



The term "waste rock" designates all fragmented rock mass that has no economic value and needs to be stored separately. Waste rock is also commonly referred to as "mine rock" in the mining industry. Typically, waste rock is produced during the initial stripping and the subsequent development of open pits and underground workings.

The term "overburden" designates all soils above the bedrock that needs to be stripped at surface prior to developing the open pits. Generally, the overburden at the site consists of a thin layer of organic material overlying a layer of non-cohesive soil with variable amounts of silt, sand, and gravel.

Tailings are the processed material by-product of the gold recovery process and generally comprise water with gravel, sand, silt, and clay sized particles.

Table 3.2 Projected Mined Tonnages and Ore Stockpile Balance (2018 – 2022)

Year	Period	Ore Mined (t)	Waste Rock Excavated (t)	Overburden Excavated (t)	Total Material Excavated (t)	Total Material Excavated (t/day)	Strip ratio	Ore Stockpile Balance (t)
	June to Sept.	-	400,782	610,973	1,011,754	8,431	-	-
2018	Q4	160,020	1,080,812	807,105	2,047,937	22,260	11.80	160,020
	Sub-total	160,020	1,481,594	1,418,078	3,059,691	14,433	18.12	160,020
	Q1	366,229	1,905,908	820,072	3,092,209	33,980	7.44	526,249
	Q2	610,012	2,299,406	122,351	3,031,769	33,316	3.97	1,136,261
2019	Q3	418,663	4,307,676	2,350,185	7,076,524	77,764	15.90	733,674
	Q4	895,072	5,284,473	826,373	7,005,917	76,988	6.83	807,495
	Sub-total	2,289,976	13,797,463	4,118,981	20,206,420	55,360	7.82	807,495
	Q1	800,463	6,111,564	81,160	6,993,187	76,848	7.74	786,709
	Q2	931,458	5,816,680	139	6,748,277	74,157	6.24	896,916
2020	Q3	763,882	5,120,892	0	5,884,773	64,668	6.70	839,548
	Q4	856,512	4,455,358	0	5,311,869	58,372	5.20	874,809
	Sub-total	3,352,314	21,504,494	81,300	24,938,107	68,324	6.44	874,809
2021		2,476,834	9,320,843	0	11,797,677	32,322	3.76	66,644
2022		0	0	0	0	0	0	0
Total		8,279,144	46,104,394	5,618,359	60,001,895		6.25	0

t = tonne; t/day = tonnes per day.

The proposed usage or destination of the three mine waste materials is presented in Table 3.3. Further details on the management of the mine waste materials are presented in Sections 5, 6, and 8 of this Plan.

The site layouts presented in Appendix A show the evolution of the site in 2018, 2019, 2022, and 2029. Most of the waste rock excavated in 2018 from Quarry 2 will be used for the construction of the water management structures, the infrastructures pads, and the access roads (Table 3.4). During the Year 1 (2019) and the Year 2 (2020), the remaining required facilities for the operations will be completed.

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Table 3.3 Summary of Mine Waste Tonnage and Destination

Mine Waste Stream	Estimated Quantities	Waste Destination	
Overburden	5.6 Mt	<ul> <li>Temporary storage West of Whale Tail Lake (~ 0.1 Mt for operations)</li> <li>Co-disposed with waste rock in Whale Tail WRSF</li> </ul>	
Waste Rock	46.1 Mt	<ul> <li>Construction material</li> <li>Whale Tail WRSF</li> <li>Closure and site reclamation</li> </ul>	
Tailings	8.3 Mt	As slurry tailings placed in the TSF (Meadowbank Mine)	

Mt = million tonnes; TSF = Tailings Storage Facility; WRSF = Waste Rock Storage Facility.

Table 3.4 Projected Waste Rock Tonnages Used for Construction (2018 – 2022)

Year	Period	Waste Rock and Overburden Excavated (t)	Waste Rock Used for Pad Construction (t)	Waste Rock Used for Road Construction (t)	Waste Rock Used for Water Management Structures (t)	Waste Rock and Overburden Stored in Whale Tail WRSF (t)
2018	June to Sept.	1 011 755	356 435	103 658	512 900	38 762
	Q4	1 887 917	150 949	1 364	192 082	1 543 522
	Sub-total	2 899 672	507 384	105 022	704 982	1 582 284
	Q1	2 725 980	0	94 625	154 608	2 476 747
2019	Q2	2 421 757	143 155	201 321	8 656	2 068 625
	Q3	6 657 861	20 877	0	40 041	6 596 943
	Q4	6 110 846	0	85 722	0	6 025 124
	Sub-total	17 916 444	164 032	381 668	203 306	17 167 439
	Q1	6 192 725	0	0	3 624	6 189 101
2020	Q2	5 816 820	0	0	0	5 816 820
	Q3	5 120 892	0	0	0	5 120 892
	Q4	4 455 358	0	0	0	4 455 358
	Sub-total	21 585 794	0	0	3 624	21 582 170
2021		9 320 843	0	0	0	9 320 843
2022		0	0	0	0	0
Total		51 722 752	671 416	486 689	911 912	49 652 736

t = tonne; WRSF = Waste Rock Storage Facility.

Over the LOM, non-potentially acid generating (NPAG)/non-metal leaching (NML) and potentially acid generating (PAG) waste rock will be segregated according to the requirement for construction (see the Operational Acid Rock Drainage (ARD)/ Metal Leaching (ML) Testing and Sampling Plan) and capping of the Whale Tail WRSF (see Section 6).

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#### SECTION 5 • WHALE TAIL PIT OVERBURDEN MATERIALS

A detailed description of soils in the Project footprint is presented in FEIS Volume 5, Section 5.3 - Terrain, Permafrost, and Soils. Soils in the Project footprint are predominantly coarse to moderately coarse-textured glacial till and colluvium with high coarse fragment content commonly overlying bedrock at shallow depths (less than 1 m). Soils are dominated by Cryosols which develop on till dominated landscapes. Saturated soil layers overlying frozen layers have been observed on site. Other soils identified include Brunisols which are most prevalent on glaciofluvial material (e.g., eskers), Gleysols which develop on till in transition areas between upland and depressional landscape positions, and Regosols which are poorly developed soils. Organic Cryosolic soils have been found in wetlands.

Field results suggest that the mineral soils are predominantly acidic to neutral, ranging from pH 5.14 to 6.96, with pH tending to increase with soil depth (FEIS Amendment Volume 5, Appendix 5-A, Appendix E). Due to their mineralogy, the mineral soils in the Project area are increasingly sensitive to adverse effects due to acid deposition with decreasing baseline pH. Soils in the Project footprint are generally not susceptible to compaction. Soils prone to compaction are limited to low-lying, imperfectly and poorly drained areas where the clay content of soils is slightly higher.

Most soils in the Project area are rated as having moderate erosion potential, with the exception of areas with morainal blankets or colluvial deposits on slopes greater than 60%, and areas containing glaciofluvial soils. In areas of gullied or dissected terrain, the erosion potential would increase.

There is a level of uncertainty associated with the location of ice-rich permafrost within the Project footprint as no detailed permafrost studies regarding the thickness of the active layer or the ice content of the soils were completed for this area. It is assumed that ground ice content is between 0 and 10% as suggested by Heginbottom et al. (1995).

A chemical characterization program investigated the geo-environmental properties of surficial overburden and Whale Tail Lake sediments. Static geochemistry tests, mineralogy and kinetic leaching tests were carried out to investigate the reactivity of these materials with respect to their potential to generate ARD and to release metals (metal leaching or ML) to the receiving environment. The surficial overburden, as described in FEIS Amendment Volume 5, Appendix 5-E, is NPAG and has low leachability but the fines portion of the material could be amenable to erosion and transport as suspended solids in contact water.

The overburden expected to be excavated over the LOM is presented in the Table 3.2. According to Meadowbank Mine experience, lakebeds will consist of water saturated and soft soils. The remainder of the overburden materials will consist of till excavated on land. Some of the till or till-like material (approximately 100,000 t) is expected to be used during operations and will be temporarily stockpiled on the Overburden Storage pad (having approximate footprint of

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#### WHALE TAIL PIT

3.2 hectares [ha]) near Whale Tail Dike and where the contact runoff will naturally flow into the Whale Tail Attenuation Pond. The remaining 5.5 Mt of overburden will be piled at the base of the Whale Tail WRSF and surrounded with waste rock in order to stabilize the material (see Figure A.1 in Appendix A). All the overburden stockpiled in the Whale Tail WRSF will be eventually covered with waste rock.



## **SECTION 6 • WHALE TAIL PIT WASTE ROCK**

The location of the Whale Tail WRSF took into consideration the following environmental, social, economic, and technical aspects of waste rock management:

- minimize the overall footprint of the Whale Tail WRSF to the extent practicable while maintaining the short-term and long-term stability of the facilities;
- avoid or minimize impact to adjacent fish bearing lakes;
- minimize the haul distance from the open pit to the Whale Tail WRSF;
- minimize the number of the water catchment areas potentially affected by drainage from the Whale Tail WRSF;
- when feasible, divert upstream clean natural non-contact run-on water away from the Whale Tail WRSF; and
- facilitate the collection and management of the contact water from the Whale Tail WRSF during mine operations to avoid potentially negative impacts on the surrounding environment.

The area selected for the storage of waste rock and overburden materials is shown in Figures A.1 to A.4 of Appendix A. This area has an approximate footprint of 110 ha. Waste rock and overburden from the Whale Tail Pit not used for site development purposes, will be trucked to the Whale Tail WRSF until the end of mine operations.

## 6.1 Waste Rock Properties

A chemical characterisation program investigated the geo-environmental properties of waste rock and ore at the Project (FEIS Amendment Volume 5, Appendix 5-E). Static geochemistry tests, mineralogy and kinetic leaching tests were carried out to investigate the reactivity of these materials with respect to their potential to generate ARD and to release metals (ML) to the receiving environment.

The Whale Tail deposit mineralization is low sulphur but the sulphur carries arsenic which is enriched in all waste rock types. Arsenic, sulphur, and carbonate-buffering capacity are the parameters of environmental interest present in mining wastes.

Most of the waste rock lithologies to be disturbed by mining are NPAG including: ultramafic, iron formation, mafic volcanic, southern greywacke and intermediate intrusive units. Together, these lithologies comprise approximately 73% of the waste rock (33.6 Mt). These units will not require means to control ARD. Of these, however, 46% (ultramafic and iron formation units) and some of the lake sediments leach arsenic in static and kinetic leaching tests at concentrations that exceed the Meadowbank Mine (Portage) effluent criterion. The mafic volcanic lithology can leach elevated arsenic at the contact with the ultramafic and greywacke units, however the bulk of the samples

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have low arsenic content and release arsenic at low concentrations. This does not necessarily infer future water quality exceedances at site but contact water will need to be monitored before discharge to the receiving environment.

The southern greywacke, the bulk of the mafic volcanic waste rock units away from the contacts of greywacke and ultramafic rock, and the intermediate intrusive within the open pit are NPAG and have low leachability. These units represent approximately 27% of the waste rock (12.4 Mt), and will not require environmental control in the short or long-term. As such, they are targeted for use as construction materials on site, as cover material for the Whale Tail WRSF and as reclamation material.

The ore and the central greywacke and chert waste rock are PAG. Chert and central greywacke represent 27% of waste rock to be generated by mining (12.4 Mt). They are silicified, have a lower buffering capacity and a higher sulphur content than the southern greywacke and other NPAG waste rock. The PAG waste rock also leaches arsenic but at concentrations that are well below the Portage effluent criterion. Based on results to date, a sulphur content of 0.1 wt% appears to be a suitable cut-off criteria below which chert and greywacke waste rock are NPAG.

Kinetic leaching tests, mineral depletion calculations and consideration of the scale and site differences between laboratory tests and field conditions suggest a time lag to possible ARD development at site of more than a decade. Upper tier ARD materials (high sulphur/low buffering capacity greywacke or chert waste rock) generated acidic drainage earlier but without the benefit of added buffering capacity from mixing with other NPAG rock piles. The delay to onset of ARD from the bulk of PAG waste rock and ore is expected to be substantially longer than the seven years of mine construction, operations, and closure. Accordingly, ARD control mechanisms for PAG materials can be implemented at the end of mining operations.

#### 6.2 Whale Tail Waste Rock Storage Facility Management

Seepage and runoff water from the Whale Tail WRSF will be managed by a combination of water retention dikes and water collection ponds (Whale Tail WRSF Pond and Whale Tail Attenuation Pond). If water quality does not meet discharge criteria, contact water in the water collection ponds will be treated at the Whale Tail WTP prior to discharge to the outside environment.

The Whale Tail WRSF was located considering advantageous topography in the form of a gentle valley presenting one low topographic point near Mammoth Lake where a contact water pond will be built. Only one low topographic point is observed north of the Whale Tail WRSF where potential runoff could escape from the Whale Tail WRSF footprint. As part of the surrounding road, a saddle dam will be constructed at this location to avoid contamination of the sub-watershed located northward of the Whale Tail WRSF.

The construction of Whale Tail WRSF Pond (Whale Tail WRSF Dike) and Whale Tail Attenuation Pond (Whale Tail Dike) are among the most important water management infrastructure for the Project.

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These ponds and accompanying dikes will be built as soon as licenses and permits for the Project are approved. The source of construction material for these facilities will be the open pit (Quarry 2) where NPAG and NML rocks are located. The overburden from the quarry will be removed and stockpiled in the Whale Tail WRSF. During the construction, berms and sumps will be built inside the footprint of the Whale Tail WRSF area if required to limit seepage and runoff from overburden and waste rock. As soon as waste rock material will be available from the open pit, the overburden will be surrounded with run of mine material (see Figure A.1 in Appendix A) to control the stability of the pile. If deemed necessary turbidity barriers in Mammoth Lake will also be installed.

During the operations of the mine, seepage and runoff from the Whale Tail WRSF will be captured by the Whale Tail WRSF Pond and pumped to the Whale Tail Attenuation Pond where the contact water will be treated in the Whale Tail WTP prior to discharge to the outside environment.

The Whale Tail WRSF water management infrastructure will remain in place until mine closure activities are completed and monitoring results demonstrate that the contact water quality from the Whale Tail WRSF meets discharge criteria (see Section 10.1).

## 6.3 Whale Tail Waste Rock Storage Facility Dimensions

The evolution of the Whale Tail WRSF is shown in Figures A.1 to A.4 of Appendix A. At completion, the crest elevation of the Whale Tail WRSF will be approximately at 235 m (maximum height of 80 m; see Figure 6.1) in an environment where the adjacent topography elevation varies between 154 and 170 m.

The Whale Tail WRSF is designed to minimize the impact on the environment and consider both the physical and geochemical stability of the stored waste rock and overburden. The design criteria are presented in FEIS Amendment Volume 2, Appendix 2-J. Final design details for the Whale Tail WRSF will be provided to the regulators for approval at least 60 days prior to construction. The Whale Tail WRSF is designed considering the placement of the waste rock and overburden in layers spread using a dozer to minimize the footprint and the dust. Each bench of 20 m maximum height is going to be composed of 4 layers of 5 m thickness, and where the bench toe will start at a setback distance of 20 m from the crest of the previous bench. The current design and overall sideslope angle of the Whale Tail WRSF will be 2.5V:1V, an angle generally considered stable for such a facility. However, slope stability analyses will be performed during the next engineering phases to determine the final design so that it is consistent with approved Portage and Vault Waste Rock facilities at Meadowbank Mine.



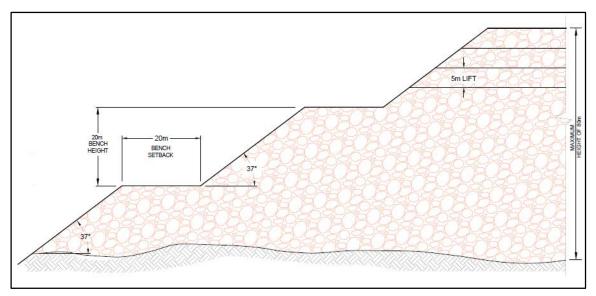


Figure 6.4 Typical Cross Section of the Whale Tail Waste Rock Storage Facility Source: SNC (2015).

#### **SECTION 7 • WHALE TAIL PIT ORE STOCKPILES**

The three areas selected for stockpiling of ore are identified as Ore Stockpile 1, Ore Stockpile 2, and Ore Stockpile 3 on Figure A.2 of Appendix A. These ore stockpile pads have an approximate footprint of 5.7, 5.5, and 6.5 ha, respectively. As presented in Table 3.1, the maximum amount of ore stockpiled on the ore pads is 1,136,261 tonnes (t) in Q2 2019, from there the quantity of ore stockpiled stabilizes and then decreases until the end of operations in Q1 2022. No ore will remain on stockpile pads at the end of operations.

## 7.1 Ore Properties

A chemical characterization program investigated the geo-environmental properties of waste rock and ore report (FEIS Amendment Volume 5, Appendix 5-E). Static geochemistry tests, mineralogy and kinetic leaching tests were carried out to investigate the reactivity of these materials with respect to their potential to generate ARD and to release metals (ML) to the receiving environment.

The ore is PAG, and is enriched in arsenic, antimony, bismuth, chromium, selenium, silver and to a lesser extent, nickel. Some of the ore samples leached arsenic at concentrations that exceed the Portage effluent criterion in static (shake flask extraction) tests but exceedances were short-lived in the first cycles of kinetic leaching tests. The delay to onset of ARD from ore is expected to be substantially longer than the seven years of mine construction, operations, and closure.

## 7.2 Ore Stockpile Management

Seepage and runoff water from Ore Stockpiles 1, 2, and 3 will naturally flow to the Whale Tail Attenuation Pond; channels will be constructed if deemed required to direct the seepage and runoff to the pond. If the water quality does not meet discharge criteria, the contact water will be treated at the Whale Tail WTP prior to discharge to the outside environment.

## 7.3 Ore Stockpile Facility Dimensions

The three ore stockpiles will occupy an area of approximately 17.8 ha. A typical cross section of these facilities is presented in Appendix A (Drawing no. 6108-687-210-001). Currently, Ore Stockpiles 1, 2, and 3 are designed to stack three layers of 5 m maximum thickness for a total height of 15 m. The sideslope angle of these ore stockpiles will be 3V:1V, an angle generally considered stable for such facility. Slope stability analyses will be performed during the next engineering phases and a final design will be presented prior to construction.

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## SECTION 8 • MEADOWBANK TAILINGS STORAGE FACILITY - TAILINGS MANAGEMENT FOR WHALE TAIL PIT

According to the Whale Tail Pit LOM calculation, the addition of the Whale Tail Pit to the Meadowbank LOM (LOM 2015 – completion Q3 2018) will generate an addition of approximately 8.3 Mt (dry) of tailings to the Meadowbank TSF for a total of 35.4 Mt.

Currently, Meadowbank tailings are stored within the TSF North and South Cells. The TSF includes dikes/dams, and is located within the basin of the former north-west arm of Second Portage Lake which has been dewatered to allow mining in the Portage Pit (refer to Figure 1.2). The TSF North and South cells are separated by the Stormwater Dike. Tailings were deposited into the North Cell from 2010 until November 2014, and again from June to September 2015. The South Cell (former Portage Attenuation Pond) is currently operating and receiving tailings.

According to the approved Meadowbank TSF design and Meadowbank LOM 2015, there remains a capacity of 5.3 Mt in the South Cell after the completion of mining Goose Pit, Portage Pit, Vault Pit, BB Phaser, and Phaser Pit. To provide the additional 3 Mt of capacity required to store Whale Tail Pit tailings, Agnico Eagle is proposing to construct an internal structure raise over the outside perimeter of the existing and frozen North Cell. This concept will increase the tailings beach elevation to a maximum of 153.5 masl in the North Cell.

## 8.1 Deposition Strategy

Tailings from Whale Tail Pit will be stored within the approved Meadowbank TSF footprint. Agnico Eagle, in collaboration with O'Kane Consulting (O'Kane), developed a rockfill internal structure design for the North Cell TSF to avoid increasing the overall footprint of the existing TSF. The Arctic climate conditions lead Agnico Eagle to implement a specific deposition strategy to optimize placement of tailings and reduce the impact of cold temperature on the tailings dry density. This strategy has been documented in previous tailings management plans and focuses on discharging tailings into the North Cell TSF during summer, and moving to the South Cell TSF during winter.

Since the beginning of operations, Agnico Eagle inferred variations of tailings dry density has ranged from 1.76 tonnes per cubic metre (t/m³) to 1.08 t/m³ during summer and winter, respectively. These observations are a direct consequence of ice entrapment occurring within the storage facility. The ice entrapment depends on the temperature and the general TSF geometry at the deposition location, reclaim water volume and sub-aerial beach length. The more the slurry is exposed to cold temperatures during the sub-aerial deposition, the greater the volume of water trapped as ice in the capillary voids of the tailings beach.

Agnico Eagle identified the North Cell TSF as most prone to ice entrapment due to its geometry. Therefore, deposition in the proposed North Cell TSF raise will be conducted from June to September inclusively, for a period of 122 days in an environment free of ice. For the remaining part



of the year, the South Cell TSF will be used for tailings deposition as a lower entrapment is forecasted due to smaller sub-aerial beach lengths. This tailings deposition strategy will also promote the building of a tailings beach on all peripheral geotechnical structures per design requirements.

## 8.2 North Cell Tailings Storage Facility

Figure 8.1 depicts the geometry of the North Cell before resuming the deposition in June 2019. An incline internal structure (see Section 8.4) will surround the North Cell TSF starting at elevation 154 masl at the north end of the cell, and decreasing in elevation until reaching the Stormwater Dike (SWD) at elevation 150 masl. Tailings deposition will be almost exclusively sub-aerial and water ponding against the SWD will be transferred to the South Cell TSF to keep the reclaim water elevation below 148 m to maintain a 2 m freeboard per design requirements. A long subaerial tailings beach will be pushed from the north to the south to promote sheet flow runoff water drainage toward the South Cell at closure. The Meadowbank Review Board encouraged this practice for closure purposes as outlined in the Section 12.2 of the Meadowbank Review Board Report No 17 (MDRB 2015).

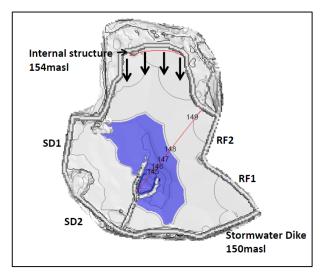


Figure 8.5 North Cell Deposition Strategy

#### 8.3 South Cell Tailings Storage Facility

Figure 8.2 depicts the geometry of the South Cell before resuming deposition in October 2019. All structures (Central Dike, SD3, 4 & 5 and SWD) will be raised at elevation 150 masl. As is currently undertaken at Meadowbank, most of the deposition will occur from the Central Dike to push the reclaim water toward the west end of the TSF. Throughout operations, the reclaim pond will be located in the South Cell TSF and water transfer will be required from the North Cell to South Cell TSF. The reclaim system will be located in the SD3 area. At the end of operations, a long subaerial

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tailings beach will be built up from Central Dike, which will promote runoff water drainage toward SD3 at closure.

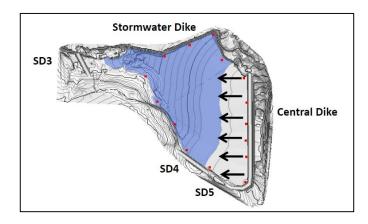


Figure 8.6 South Cell Deposition Strategy

## 8.4 North Cell Internal Structure

O'Kane were mandated by Agnico Eagle to design the North Cell TSF internal dike structures to provide an additional tailings storage capacity of 3 Mt. The internal structure will consist of NPAG waste rock placed at 1.5H:1V (upstream face) and at 3H:1V (downstream face) along the alignment (see drawings presented in Appendix B). While the technical drawings presented in Appendix B show a 15 m crest width, suitable for 2-way traffic with 50 t haul trucks, the final dike width at the crest will be determined by construction equipment to be used. Numerical modelling of slope stability and seepage were completed assuming a 30 m wide dike. Sensitivity analysis of seepage showed no difference in seepage rates and total volumes between the 15 m and 30 m options. The height of the dike will vary between 2 and 4 m, the higher portion located in the northern section of the TSF.

## 8.5 Tailings Deposition Planning

## 8.5.1 Tailings Properties

An updated TSF water balance and tailings deposition plan for the Project was prepared based on tailings properties defined by field measurement during the Meadowbank operations. Table 8.1 presents the parameters used in the model as determined from bi-annual (i.e., twice per year) bathymetric surveys after the summer and winter seasons. Intervening summer and winter values were estimated from the measured values and weighted by month.

The bathymetric surveys of the TSF also provided measurements of sub-aqueous and sub-aerial beach angles. The model used a sub-aerial tailings beach slope of 0.45% and a sub-aqueous tailings beach slope of 2.36% assuming that the Meadowbank in situ measured tailings geotechnical properties will be representative of conditions during deposition of the Whale Tail Pit tailings.

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Based on the geochemical testing completed to date, the Whale Tail Pit tailings are expected to be PAG due to their low carbonate-mineral buffering capacity relative to sulphide sulphur content (2.8 wt%). The Whale Tail Pit tailings sample subjected to kinetic testing by humidity cell remained neutral for the 44-week test duration and showed little evidence of active sulphide mineral oxidation. However, mineral depletion calculations on kinetic test results suggest that the buffering capacity will eventually be consumed, after which the tailings may start to oxidize and develop acidic conditions. Therefore, the tailings are anticipated to require oxidation control in the long-term.

**Table 8.1** Model Parameters

North Cell Parameters 2019-2021				South Cell Parameters 2019-2020 & 2021			
Month	Ice Thickness (m)	Tailings Dry Density (t/m³)	Ice entrapment (%)	Month	Ice Thickness (m)	Tailings Dry Density (t/m³)	Ice entrapment (%)
January	1.1	1.08	90%	January	1.1	1.22 - 1.08	50% - 90%
February	1.3	1.08	90%	February	1.3	1.22 - 1.08	50% - 90%
March	1.5	1.08	90%	March	1.5	1.22 - 1.08	50% - 90%
Q1	1.5	1.08	90%	Q1	1.5	1.22 - 1.08	50% - 90%
April	1.7	1.08	90%	April	1.7	1.49 - 1.08	50% - 90%
May	0	1.32	60%	May	0	1.49 - 1.32	40% - 60%
June	0	1.56	30%	June	0	1.49 - 1.56	30%
Q2	0	1.32	60%	Q2	0	1.49 - 1.32	40% - 60%
July	0	1.56	30%	July	0	1.76 - 1.56	30%
August	0	1.56	30%	August	0	1.76 - 1.56	30%
September	0	1.56	30%	September	0	1.76 - 1.56	30%
Q3	0	1.56	30%	Q3	0	1.76 - 1.56	30%
October	0.2	1.32	75%	October	0.2	1.31 - 1.32	40% - 75%
November	0.5	1.08	80%	November	0.5	1.31 - 1.08	50% - 80%
December	0.8	1.08	90%	December	0.8	1.31 - 1.08	50% - 90%
Q4	0.8	1.16	82%	Q4	0.8	1.31 - 1.16	47% - 82%
Average	_	1.28	65%	Average	_	1.44 - 1.28	42% - 65%

m = metre;  $t/m^3 = tonnes per cubic metre$ ; % = percent.

## 8.5.2 Deposition Strategy

End of pipe tailings deposition will be used in North and South Cell TSF during the Whale Tail Pit mining. The deposition may be optimized by incorporating a spigoting system to the deposition process at the north end of the North Cell TSF.

#### 8.5.3 Tailings Deposition Plan

Please refer to Appendix C for the detailed Whale Tail Pit Tailings Deposition Plan.

## 8.5.4 Tailings Storage Capacity

Table 8.2 and Figure 8.3 summarize the tailing tonnages to be deposited in each cell with time.

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Table 8.2 Tailings Storage Facility Tailings Tonnage Profile

Time	North Cell (t)	South Cell (t)	Total (t)
2019	821,250	821,250	1,642,500
2020	1,091,992	2,193,008	3,285,000
2021	1,098,000	2,187,000	3,285,000
2022	0	66,644	66,644
Total	3,011,242	5,267,902	8,279,144

t = tonne.

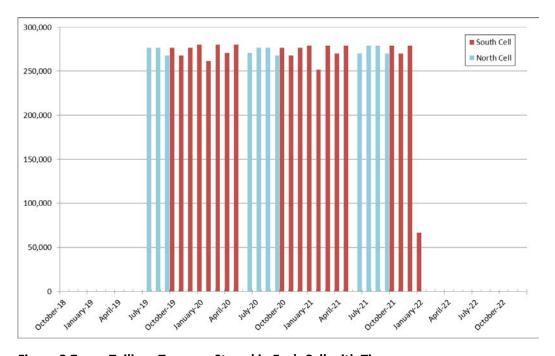


Figure 8.7 Tailings Tonnage Stored in Each Cell with Time

Assuming a tailings dry density of 1.28 t/m³, the South Cell will have a remaining storage capacity of 1.9 Mt after completion of Whale Tail Pit operations. This provides additional storage contingency should tailing properties differ from that modelled. Figure 8.4 presents the layout of the TSF once deposition is completed.

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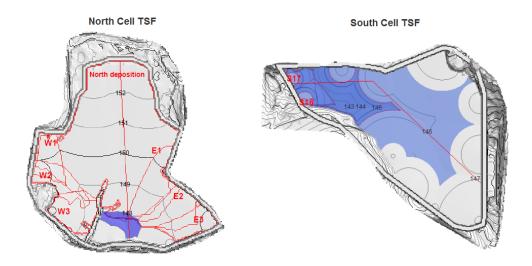


Figure 8.8 Tailings Storage Facility Layout after Deposition Completed

# 8.6 Meadowbank Mine Water Management Strategy during Whale Tail Pit Operations and for Progressive Closure of Goose, Portage, and Vault Pits

At Meadowbank, four major sources of inflow water are considered in the site water management system on site: freshwater pumped from Third Portage Lake, natural pit groundwater inflow, seepage inflow from the East Dike and runoff water. This water is utilized and removed from the catchment areas by the following means: WTP effluent from the Vault Attenuation Pond, water trapped in the capillary voids of the tailings fraction at the TSF, East Dike seepage discharge into Second Portage Lake and water trapped within the in-pit central waste rock storage area voids.

An updated Meadowbank Mine Water Balance incorporating the Project is presented in Appendix D, and the related flowcharts are provided in Appendix E. The updated model does not include inflows from the Interception Sump, Waste Dump Extension Pond, or ST-16 to the TSF. It is expected that water running through the diversion ditch to the Interception Sump during the Project LOM will be suitable for direct discharge to the environment, while inflows to the TSF from the Waste Dump Extension Pond and ST-16 will be relatively minor and therefore have negligible influence on eth water balance. The following sections provide further details on the Meadowbank Mine water management strategy during the Project.

## 8.6.1 Freshwater from Third Portage Lake

Freshwater from Third Portage Lake is pumped utilizing a freshwater barge to service the camp, mill, maintenance shop, and all other freshwater users at Meadowbank. The amount pumped from the barge is tracked and reported in the water balance and as a requirement of the Type A Water Licence. The two main consumers of freshwater are the mill and the camp.

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The freshwater going to the mill is used in the milling process and will be discharged with the tailings as a slurry. Once in the TSF, the total water volume is comprised of 40% free reclaim water (recycled back to the mill as process water), 30% entrapped within the capillary void space of the tailings, and a further 30% entrapped within the TSF as ice (60% total entrapped in TSF). The water entrapment within the TSF represents annual averages as the ice entrapment during the summer months would fall to zero, while in winter months it could reach close to 90% (according to the 2014-2015 North Cell bathymetric analysis). Please refer to Table 8.1 for detailed information on expected water entrapment throughout TSF operation.

The freshwater used in the camp includes laundry facilities, cleaning, cooking and drinking water consumption. The majority of the camp freshwater is returned as sewage treatment effluent to the Stormwater Management Pond which ultimately gets transferred to the active TSF (currently the South Cell), and later in the mine closure period to Portage Pit during the reflooding operation.

The total expected freshwater utilization planned for 2019 to mine closure varies from 50 to 250 cubic metres per hour (m³/hr) during mill operation, and drops to 4 m³/hr during closure. Table 8.3 and Figure 8.5 summarize water consumption with time. The variation seen in the freshwater consumption during mill operation is calculated to prevent a water deficit in the TSF while allowing for adequate reclaim volumes at the mill.

**Table 8.3** Yearly Water Consumption Summary

Time	Freshwater flow (m³/hr)	Total Freshwater (m³)	Reclaim Water Flow (m³/hr)	Total Reclaim Water (m³)	Total Water Flow (m³/h)
2019	32	282,635	138	1,214,399	170
2020	108	944,640	228	1,998,953	335
2021	123	1,072,800	212	1,862,750	335
2022	25	218,064	7	63,321	32
2023-2029	4	34,675	0	0	4

 $m^3/hr = cubic metres per hour; m^3 = cubic metres.$ 



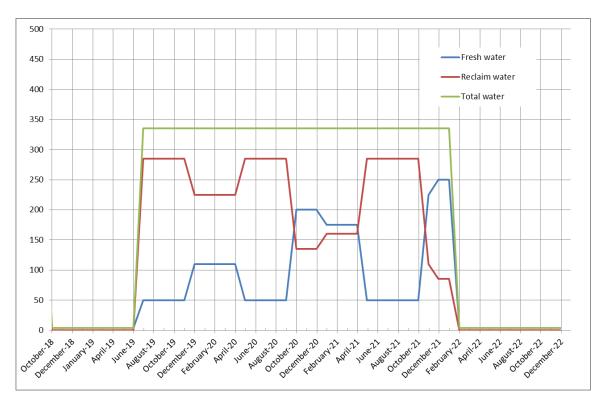


Figure 8.9 Flow to the Mill

### 8.6.2 Reclaim Tailings Water

Reclaim tailings water represents the water reclaimed from the TSF to feed the mill during operations. The pumping system is a mobile pumphouse mounted on skids which retreats on a road as the water level rises in the South Cell TSF. The suction line is laid down at the bottom of the pond and is extended as needed when the pump moves. A summary of the reclaim water that will be sent to the mill on an annual basis during the Project is presented in Table 8.3.

Figure 8.6 illustrates the water management in the North Cell TSF until the end of its operation in 2022. The reclaim pumping system installed in the South Cell will continue to supply the mill with reclaim water. Water transfers are required from the North Cell to South Cell TSF to maintain a reclaim water elevation in the North Cell below 148 m (i.e., to maintain a 2.0 m freeboard), and to continue providing the mill with the required volume of reclaim water.

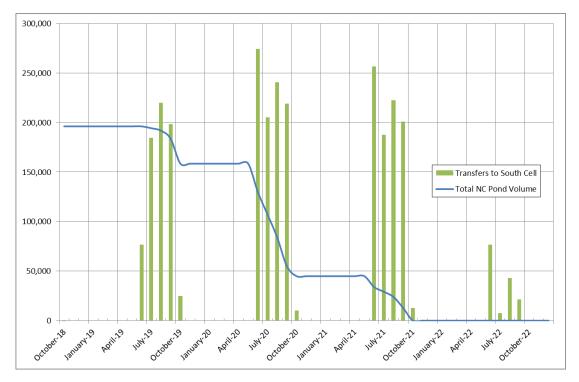


Figure 8.6 North Cell TSF – Reclaim Water Volume and Transfer

The South Cell TSF water management is consistent with that of the North Cell. Figure 8.7 shows the projected water volume in the South Cell from 2019 through to mine closure in 2022 and the water transfers required to maintain the optimal reclaim water volume for operations.

After the summer 2019, the reclaim water volume in the South Cell will decrease slowly until deposition is complete. Some water will need to be transferred to the Portage Pit at the end of the deposition (cessation of mill operation) to properly dewater the tailings pond prior to executing capping activities. The treatment requirements of the reclaim water will be determined as per TSF Expansion Water Quality Analysis Phase 1 (SNC 2016, found in Appendix F) and will be evaluated as per Type A Water Licence conditions.

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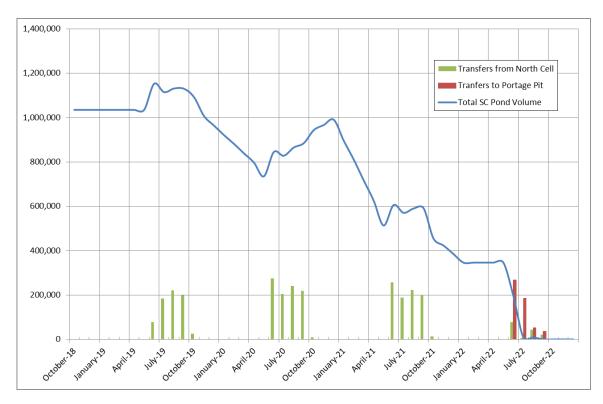


Figure 8.10 South Tailings Storage Facility - Reclaim Water Volume, Elevation, and Transfer

### **8.6.3** Water Transfers

Water transfers from various locations around the site are required to reduce freshwater consumption, optimize basin storage, optimize the water balance and prevent receiving environment impacts.

### 8.6.3.1 Tailings Storage Facility Water Transfers

Water transfers within the TSF and to the Portage Pit are required throughout the Project LOM to optimize the tailings deposition sequence, maintain an adequate reclaim pond (operating volume, dike structure protection and water quality), minimize freshwater consumption, and to ensure the closure of each TSF cell (Table 8.4). All these transfers will be documented overtime in order to improve accuracy of the water balance and maintain adequate TSF reclaim pond levels with time.



Year	North Cell to South Cell (m³)	SMP to South Cell (m³)	SMP to Portage Pit (m³)	South Cell to Portage Pit (m³)
2019	703,953	34,675		
2020	948,751	34,675		
2021	880,009	34,675		
2022	148,451		34,675	540,163
2023	181,187		34,675	281,082

**Table 8.4** Tailings Storage Facility Water Transfers

m<sup>3 =</sup> cubic metres; SMP = Stormwater Management Pond.

### 8.6.3.2 Stormwater Management Pond

The Stormwater Management Pond (Tear Drop Pond) is a small shallow, fishless, water body that can be seen in Figure 1.2 adjacent to Portage Pit. Treated sewage effluent is discharged to this lake before being transferred to the Portage Pit during operations. These transfers ensure there is always capacity in the pond to contain freshet water from its catchment area, as well as the onsite Sewage Treatment Plant effluent. The pond water is transferred two times or more per year during the warmer months: typically, once in the spring and once in the fall. The total flow volume to be transferred during the Project LOM is forecasted at 34,675 cubic metres (m³).

### 8.7 Progressive Closure – Goose, Portage, and Vault Pit Reflooding

As per the recommendations and requirements concerning water use in the NWB Water Licence No. 2AM-MEA1525, the Meadowbank Water Management Plan will be updated on an annual basis and will continue to include a pit flooding strategy. The following is provided as an interim update considering the addition of the Project. The first phase of the Portage, Goose, and Vault pit reflooding sequence is currently planned to be completed by the end of summer 2025. Refer to Table 8.5 for the proposed reflooding sequence per year for all pits.

**Table 8.5** Pit Flooding Profile

	Pit Flooding Profile							
	Volumes pumped from Third Portage Lake			Volumes pumped from Wally Lake				
Year	To Portage Pit (m³)	To Goose Pit (m³)	From Third Portage Lake (m³)	To Vault Pit (m³)	To Vault Attenuation Pond (m³)	To Phaser Pit (m³)	From Wally Lake (m²)	Total flooding water (m³)
2018	0	3,182,704	3,182,704	0	0	0	0	3,182,704
2019	4,520,000	0	4,520,000	4,182,604	0	0	4,182,604	8,702,604
2020	4,520,000	0	4,520,000	4,182,604	0	0	4,182,604	8,702,604
2021	4,520,000	0	4,520,000	4,182,604	0	0	4,182,604	8,702,604
2022	4,520,000	0	4,520,000	4,182,604	0	0	4,182,604	8,702,604
2023	4,520,000	0	4,520,000	4,182,604	0	0	4,182,604	8,702,604
2024	4,520,000	0	4,520,000	4,182,604	0	0	4,182,604	8,702,604
2025	4,059,356	0	4,059,356	2,955,472	314,194	0	3,269,666	7,329,022
Total	31,179,356	3,182,704	34,362,060	28,051,096	314,194	0	28,365,290	62,727,350

 $m^3$  = cubic metres.

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### 8.7.1 Goose Pit Flooding

The volumes of water needed for Portage and Goose pit reflooding, which is part of the overall approved Meadowbank interim closure plan (Golder 2014), is dependent on the water elevation of Third Portage Lake. The Goose Dike can only be breached when the level of the flooded pits reaches the same elevation as Third Portage Lake and pit water quality meets Type A Water Licence conditions. According to Third Portage Lake elevation data from 2013 to 2015 this elevation is approximately 133.6 masl (Figure 8.8).

To obtain a water elevation of 133.6 m in the Portage and Goose pits, a total of 45 Million cubic metres (Mm³) of water will be required in the Portage area. Of this amount, 34.3 Mm³ will originate from Third Portage Lake, and the 10.7 Mm³ balance will be made up from the natural pit water inflows including runoff and precipitation combined with reclaim water.

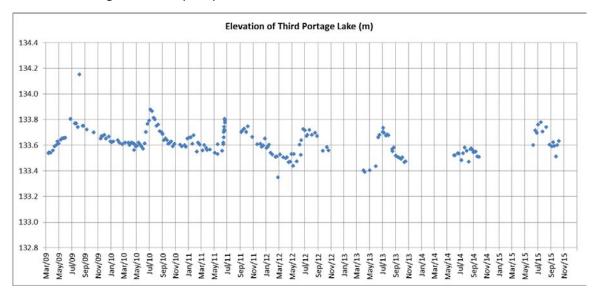


Figure 8.11 Distribution of Third Portage Lake Elevation Surveyed Data

Figure 8.9 depicts the Goose Pit flooding curve. Goose Pit flooding started in 2015 by allowing the annual inflow volume (runoff, groundwater, and precipitation) of 383,800 m³ to remain within the pit. In the summer 2018, transfers from Third Portage Lake to Goose Pit are planned to commence, and will end in September 2018, after which natural pit inflows will continue. Once elevation 131.0 masl is reached, the Goose water will join the Portage Pit water to form one water body. This is planned by September 2025, and the pit lake water level is expected to reach the Third Portage Lake elevation in 2029. If water quality meets all closure criteria, including Canadian Council of Ministers of the Environment (CCME) guidelines and site specific criteria, the Goose dike will be breached. Refer to Section 10.3 and Appendix F for details on the pit water quality forecast model.

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When interpreting Figure 8.9, it should be noted that it appears that Goose Pit never reaches 133.6 masl; however, Goose Pit volumes between 131 masl and 133.6 masl are included as part of Portage flooding volumes (Section 8.7.2 and Figure 8.10).

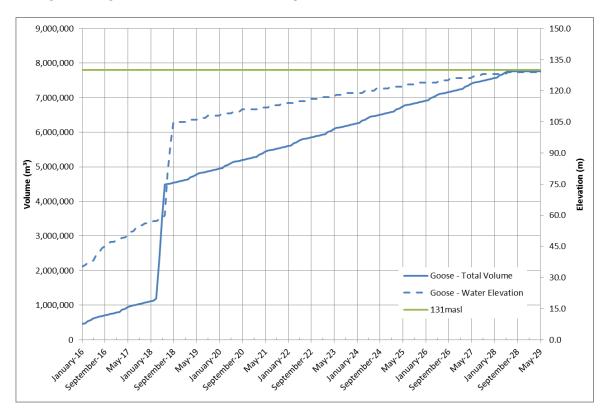


Figure 8.12 Goose Pit Flooding

### 8.7.2 Portage Pit Flooding

Portage Pit reflooding will begin in 2019 with a annual 4.52 Mm³ transfer from Third Portage Lake to the Portage Pit. In 2025, an additional 4.06 Mm³ will be required to complete the total active flooding to elevation 131 masl. From this point, runoff water and other pit inflows will be used to complete flooding of both the Portage and Goose pits until elevation 133.6 masl is reached at the end of 2028 (Figure 8.10).

Again, as mentionned above, the portion of Goose Pit between 131 masl and 133.6 masl elevation is included in the Portage Pit volumes.

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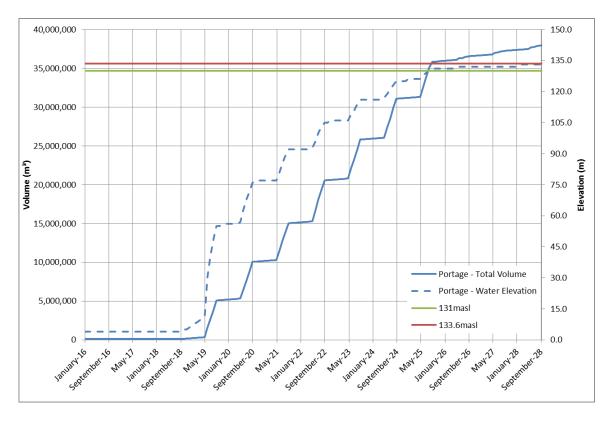


Figure 8.13 Portage Pit Flooding

### 8.7.3 Vault Pit Flooding

The Vault Pit area is composed of many basins in the former lake and different pit elevations that are all linked together. The flooding of Vault and Phaser (once fully authorized) is more complex and requires water transfers from basin to basin. Reflooding of the Vault area from Wally Lake will commence in 2019 and will continue until the end of summer 2024 at an annual rate of 4,182,604m³, and finally 2,955,472 m³ in 2025. From 2025 to 2029 natural inflows of approximatively 500,000 m³ per year from freshet, precipitation and groundwater will then allow Vault Pit lake to reach 139.9 masl (natural Wally Lake water level) (Figure 8.11). At this point, the Vault dike will be breached provided the water meets CCME criteria and/or site specific criteria for parameters not included in the CCME guidelines. Refer to Table 8.5 for the yearly cumulative volumes required to complete the flooding process as well as the resulting pit elevation. Refer to Section 10.3 of this present report for the pit water quality forecast model.

Phaser Pit and Lake are planned to be flooded exclusively from catchment run off until approximately 2025. At this point, the Phaser and Vault areas will combine, and flooding will continue as describe above for the Vault area until a target elevation of 139.9 masl (i.e., the Wally Lake elevation) is reached in 2027.

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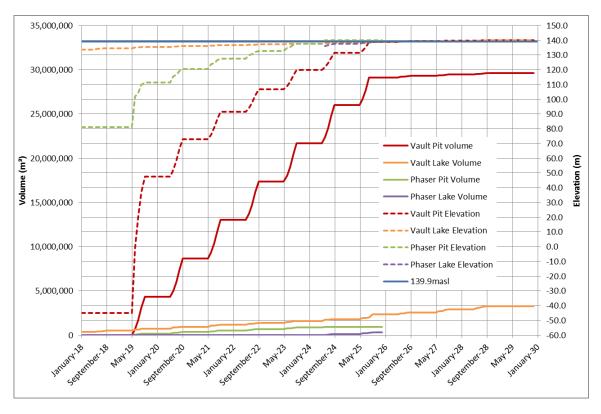


Figure 8.14 Vault Pit Flooding

### 8.8 Water Management Structure Inspections

As per the recommendations and requirements outlined in the document *Water Licence: 2AM-MEA1525 Reasons for Decision Including Record of Proceedings* from the NWB, and as per Water Licence 2AM-MEA1525 (Part E, Condition 10), Agnico Eagle will conduct weekly inspections of all water management structures during periods of flow. Records of the inspections will be available for review by an Inspector upon request.

### SECTION 9 • CONTROL STRATEGIES FOR ACID ROCK DRAINAGE IN COLD REGIONS

The generation of metal leachate in acidic drainage is a concern for mining projects. In evaluating the potential control strategies for the disposal of the mine waste for the Whale Tail Pit, consideration was given to strategies that are effective in cold regions. A discussion of the alternative control strategies considered is summarized below.

Common control strategies for the prevention or reduction of acid mine drainage in cold regions are:

- 1. Control of acid generating reactions;
- 2. Control of migration of contaminants; and
- 3. Collection and treatment.

In assessing the overall control strategies for the Project, emphasis has been placed on methods that satisfy (1) and (2) in the above list, which then has an impact on (3) by potentially reducing the requirements for these activities. Table 9.1 presents various acid mine drainage control strategies.

**Table 9.1** Acid Mine Drainage Control Strategies of the Arctic

Strategy	Description
Freeze Controlled	Requires considerable volumes of non-acid waste rock for insulation protection.  Better understanding of air and water transport through waste rock required for reliable design.
Climate Controlled  Requires control of convective air flow through waste rock, infiltrativity with modest measures and temperature controls. Better understan waste rock air, water, and heat transport for reliable design.	
Engineered Cover	Special consideration for freeze-thaw effects. Availability and cost of cover materials are major impediments.
Subaqueous Disposal Very difficult to dispose of waste rock beneath winter ice.	
Collection and Treatment	Costly to maintain at remote locations Long-term maintenance cost.

Source: Dawson and Morin (1996).

The Whale Tail Pit site is located within the zone of continuous permafrost, and has a mean annual air temperature of about -11.3°C. Based on thermal data collected during baseline studies, the mine area is underlain by permafrost to the depth of 425 m below the ground surface. In developing this Plan, freeze control and climate control strategies have been adopted.

Freeze control strategies rely on the immobilization of pore fluids to control acid mine drainage reactions, and the potential migration of contaminated pore water outside of the storage facility. The climate conditions in the project area are amenable to freeze control strategies, and hence should be taken advantage of. In addition to immobilization of pore fluids, permafrost can reduce the hydraulic conductivity of materials by several orders of magnitude. Consequently, freeze control strategies are effective methods for reducing the migration of contaminants through materials.



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According to Dawson and Morin (1996), freeze control strategies can only be effective if sufficient quantities of NPAG waste rock are available for use as a cover and insulation protection.

Climate control strategies rely on cold temperatures to reduce the rate at which oxidation occurs. The low net precipitation in permafrost regions limits infiltration of water into waste rock and tailings disposal areas. Consequently, the climate of the Whale Tail Pit will act as a natural control to reduce the production of acid mine drainage and metal leachate. Climate control strategies are best applied to materials placed at a low moisture content to reduce the need for additional controls on seepage and infiltration. This strategy is considered to be effective for waste rock in arid climate such as the one of project.

Meadowbank Mine uses the climate control strategy for the reclamation of the WRSF and TSF. Research activities are ongoing about the behaviour and the performance of the proposed cover systems for Meadowbank Mine with the participation of the Université du Québec en Abitibi-Témiscamingue: Research Institute Mines and Environment since 2014. Experience and knowledge acquired at Meadowbank Mine regarding the design and the monitoring of the cover system will be applied to the Whale Tail Pit scenario.



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### **SECTION 10 • MONITORING AND CLOSURE**

### 10.1 Whale Tail Waste Rock Storage Facility

Progressive reclamation includes closure activities that take place prior to permanent closure in areas or at facilities that are no longer actively required for current or future mining operations. Reclamation activities can be done during operations with the available equipment and resources to reduce future reclamation costs, minimize the duration of environmental exposure, and enhance environmental protection. Progressive reclamation may shorten the time for achieving reclamation objectives and may provide valuable experience on the effectiveness of certain measures that might be implemented during permanent closure. The Whale Tail WRSF will be operated to facilitate progressive reclamation; detailed mine closure and reclamation activities are provided in the Whale Tail Interim Closure and Reclamation Plan.

Monitoring will be carried out during all stages of the mine life to demonstrate geotechnical stability and the safe environmental performance of the facilities. If any non-compliant conditions are identified, then maintenance and planning for corrective measures will be completed in a timely manner to ensure successful completion of the Whale Tail Interim Closure and Reclamation Plan.

Mine closure and the reclamation of the Whale Tail WRSF will use currently accepted management practices and appropriate mine closure techniques that will comply with accepted protocols and standards.

Geochemical testing indicates that approximately 27% of the total amount of waste rock produced during the Project is NPAG and NML (FEIS Amendment Volume 5, Appendix 5-E). The remaining 73% of waste rock shows PAG and/or ML behaviour; therefore, means to limit oxidation and water infiltration need to be put in place. A closure cover system will be added on the top of the Whale Tail WRSF. The design proposed is the same as that at Meadowbank Mine for the Portage WRSF, i.e. the addition of 2 to 4 m of NPAG and NML waste rock as a final surface cover. The intent of the cover is to contain the yearly active layer inside the thickness of the cover and maintain a temperature below 0°C for the underlying rock. The objective of the cover is the control of acid generating reactions and migration of contaminants.

The segregation of the PAG/NPAG and ML/NML waste rock will occur during operations (see the Operational ARD-ML Sampling and Testing Plan), as will the progressive placement of the final cover on the WRSF slopes. The covering of the top of the Whale Tail WRSF will be completed during the closure period using of the stockpiled NPAG and NML waste rock. It is anticipated that the native lichen community will naturally re-vegetate the surface of the Whale Tail WRSF over time.

The contact water management system for the Whale Tail WRSF (WRSF Dike and WRSF Pond) will remain in place until mine closure activities are completed and monitoring results demonstrate that water quality conditions from the Whale Tail WRSF are acceptable for discharge with no further

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treatment required. Once water quality meets the discharge criteria established through the water licensing process, the contact water management system will be decommissioned to allow the surface runoff and seepage water from the Whale Tail WRSF to naturally flow to the outside environment. Water quality predictions for Whale Tail Pit are provided in Volume 6, Appendix 6-H of the FEIS.

### 10.2 Ore Stockpiles

Ore Stockpiles 1, 2, and 3 will used over the operations to stockpile ore and will be freed during Q1 2022. During the following summer, if metal contamination of ore pads is measured, the pad section targeted by the contamination will be excavated and placed in the Whale Tail WRSF before its final covering with NPAG waste rock. If deemed required, the Ore Stockpiles 1, 2, and 3 will be covered with NPAG waste rock or soils. In the event of a short-term temporary closure, the water and dust management strategies for the ore stockpiles will be kept the same as used during active mine operations. In the event of a long-term temporary closure, surface water control structures will be maintained as required. Further details on mine site closure and reclamation, including the ore stockpiles, can be found in the Interim Closure and Reclamation Plan.

## 10.3 Portage and Goose Pit Water Quality Forecast for Closure Including Whale Tail Pit Operations

An updated water quality forecast report including Whale Tail Pit operations was prepared by SNC Lavalin (SNC 2016 and found in Appendix F). The purpose of the updated modelling was to identify through a mass balance approach the contaminants of concern during the pit flooding process and determine if water treatment will be required on site for closure activities when comparing the final contaminant levels to the CCME guidelines and/or site specific criteria for parameters that are not included in the CCME guidelines. The water quality forecast will be updated on an annual basis as new monitoring data is added at the site. Forecasted model values from prior years will be compared with the actual sample results from the following years for model calibration purposes.

Using Whale Tail Pit tailings geochemistry data, SNC (2016) identified three contaminants of concern that could impact end pit water quality and therefore require treatment: copper, selenium and total nitrogen. These contaminants originate from the TSF reclaim water transferred to the pits in 2022 as outlined in Section 8.7. As the afore mentioned parameters may be of concern prior to dike breaching, treatment options for their removal during or after the pit flooding process will need to be examined and will be assessed in greater detail during the preparation of the final closure and reclamation plan to be submitted one year prior to the end of operations.



### 10.4 Monitoring of Freezeback

### 10.4.1 Whale Tail Waste Rock Storage Facility

To observe the freezeback of Whale Tail WRSF, a series of subsurface thermistors will be installed at strategic locations. The purpose of the thermistors is to monitor the temperature within the facility as freezing progresses. The thermistors will be monitored regularly throughout the operational period as well as during closure and post-closure according to Part I Item 9 of the Type A Water Licence. The results will be used to evaluate the predicted thermal response of the facility, and will allow for revision of the thickness of the final cover if required.

### 10.4.2 Meadowbank Mine Tailings Storage Facility

During the development and mining of the Meadowbank Mine deposits, an adaptive management plan was implemented with respect to monitoring of the TSF. A number of test pads have been developed to assess various TSF cover designs, and to determine the most appropriate for the actual site conditions. A similar approach was used previously at the Nanisivik Mine. In collaboration with the Université du Québec en Abitibi-Témiscamingue: Research Institute Mines and Environment, four tests pads have been constructed on the TSF North Cell since 2014. The monitoring program for the TSF will provide the data required to validate the predictions of freezeback within the tailings. If it is determined by monitoring during operations that the tailings are freezing at lower rates than predicted, then mitigation procedures would be implemented. However, results to date indicate that the tailings in the North Cell are freezing as predicted. Once capping on the tailings with NPAG is completed, a specific monitoring program will be implemented to ensure the closure strategy documented in Golder (2014) is adhered to.

### 10.5 Operational Monitoring of Tailings Seepage

Routine inspections and thermal data is monitored to evaluate seepage from the TSF Central Dike, Saddle / Coffer Dam, and Rockfill perimeter containment foundations in accordance with the TSF Operation, Maintenance, and Surveillance plan. In addition visual inspections are performed regularly, and a yearly geotechnical inspection is undertaken by a third party contractor.

If monitoring indicates flow rates and water qualities are of concern, then mitigation measures would be undertaken. Collection of any seep water and pumping it back into the TSF will be required. The potential mitigation action will be dependent on observed flow rates and water quality data.

If, during monitoring, it is found that the freezeback of the dike and tailings deposit are occurring at a rate less than predicted, then enhancement by artificial freezing methods (i.e., thermosyphons) may be considered.

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Monitoring activities and mitigations will be further detailed in the updated Tailings Storage Facilities Operation, Maintenance, and Surveillance Plan, which will be updated prior to the use of the TSF for Whale Tail Pit tailings storage.



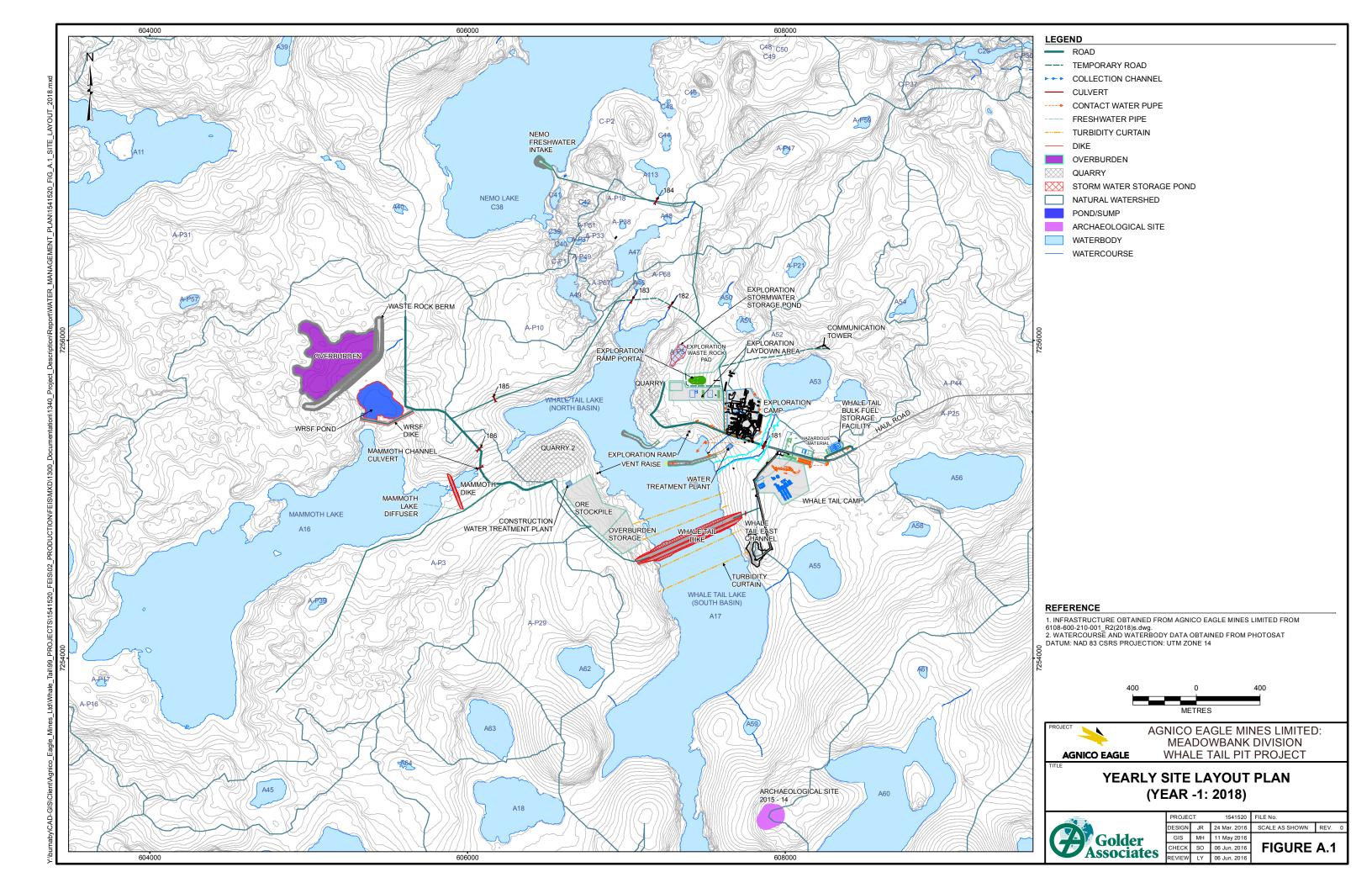
### **SECTION 11 • REFERENCES**

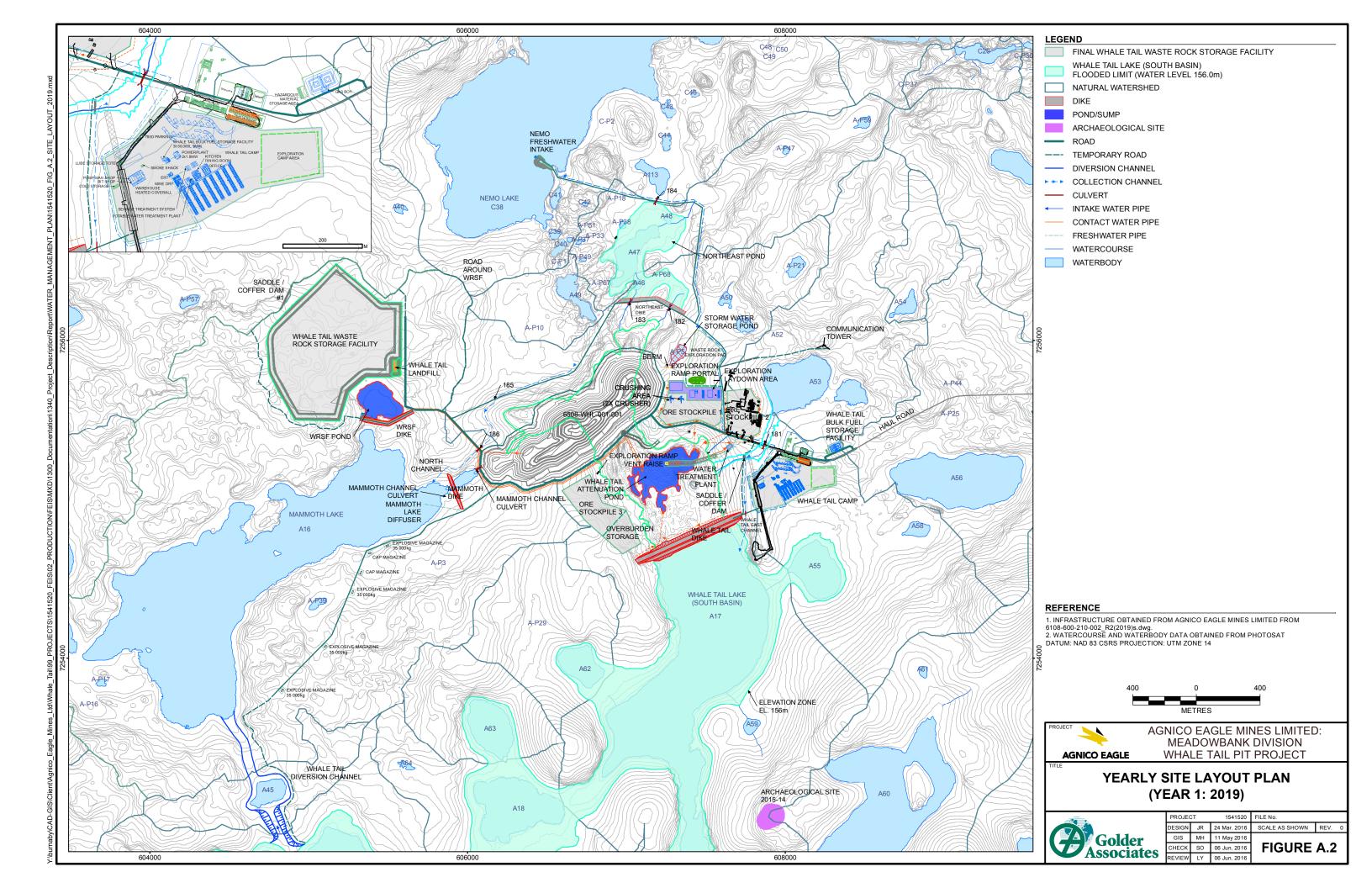
- Dawson and Morin. 1996. Mine Effluent Neutral Drainage (MEND), 1.61.2: Acid Mine Drainage in Permafrost Regions: Issues, Control Strategies and Research Requirements, 1996.
- Golder (Golder Associates Ltd.). 2014. Interim Closure Plan and Reclamation plan. Golder Associated Limited. January 7, 2014.
- Government of Canada. 2015. Historical Climate Data. Available online from: http://climate.weather.gc.ca/index\_e.html
- Heginbottom, J.A., M.A. Dubreuil and P.A. Harker. 1995. Canada Permafrost. In, National Atlas of Canada, 5th Edition, National Atlas Information Service, Natural Resources Canada, MCR 4177.
- IPCC (Intergovernmental Panel on Climate Change). 2014. Summary for Policymakers. In: Climate Change 2014: Impacts, Adaptation, and Vulnerability. Part A: Global and Sectoral Aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change [Field, C.B., V.R. Barros, D.J. Dokken, K.J. Mach, M.D. Mastrandrea, T.E. Bilir, M. Chatterjee, K.L. Ebi, Y.O. Estrada, R.C. Genova, B. Girma, E.S. Kissel, A.N. Levy, S. MacCracken, P.R. Mastrandrea, and L.L. White (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, pp. 1-32
- Knight Piesold. 2015. Agnico Eagle Mines Ltd.: Meadowbank Division Whale Tail Pit Permafrost and Hydrogeological Characterization, File No.:NB101-00622/04-A.01
- MDRB (Meadowbank Review Board). 2015. Report No 17 Meadowbank Mine Dike Review Board Meeting July 27-30, 2015. Meadowbank Mine Dike Review Board. August 6th, 2015.
- Overland, J.E., M. Wang, J.E. Walsh, and J.C. Stroeve. 2013. Future Arctic climate changes: Adaptation and mitigation time scales, Earth's Future, 2, doi:10.1002/2013EF000162.
- SNC (SNC Lavalin). 2015. Whale Tail Pit Project Permitting Level Engineering, Geotechnical and Water Management Infrastructure, Rev. 00 Ref. 627215-1000-40ER-0004, Agnico Eagle Ref. 6108-REP-004\_RA.
- SNC. 2016. Tailings Storage Facility Expansion Project Phase 1 Water Quality Assessment Technical Report. March 11th, 2016

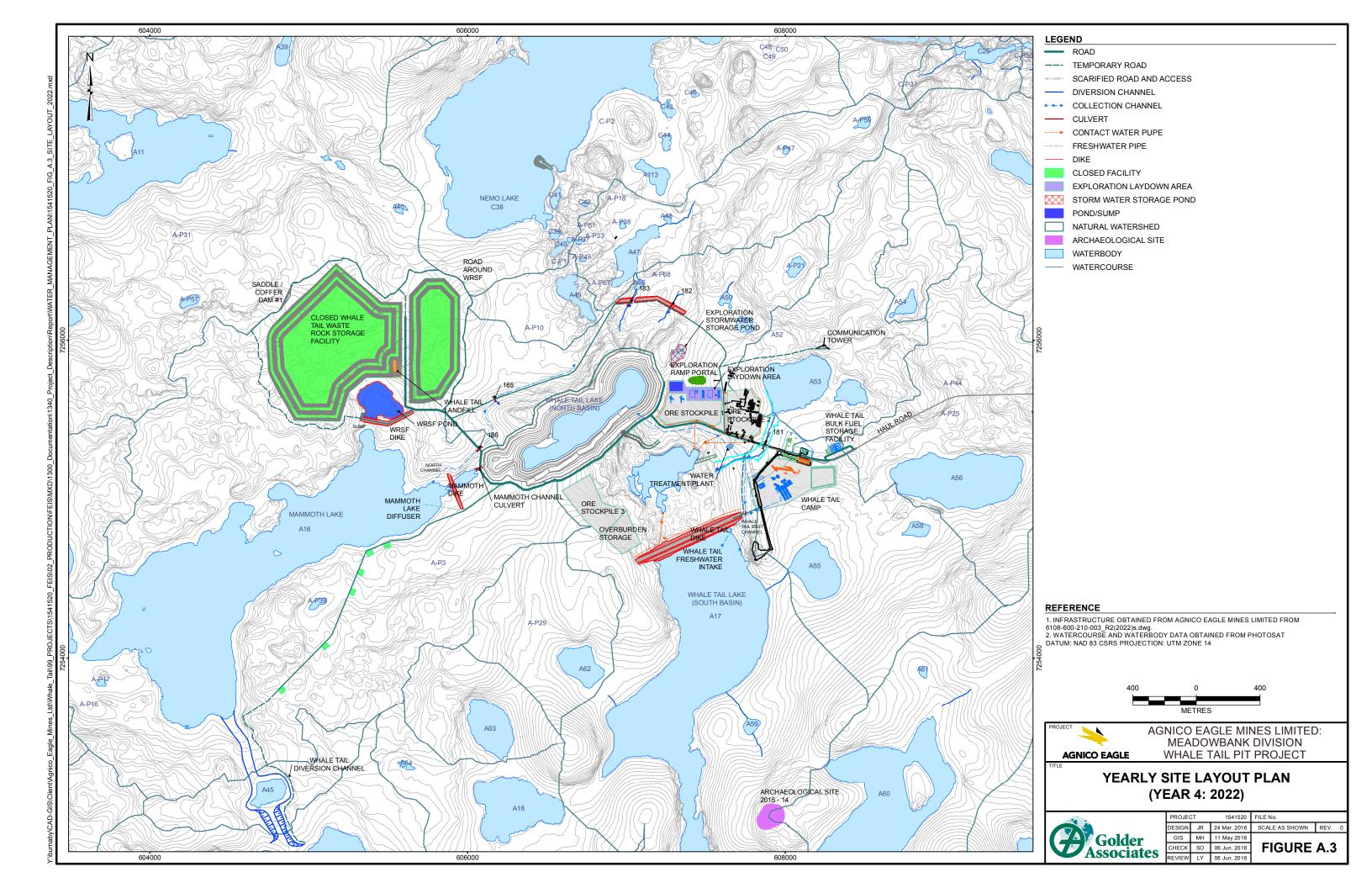


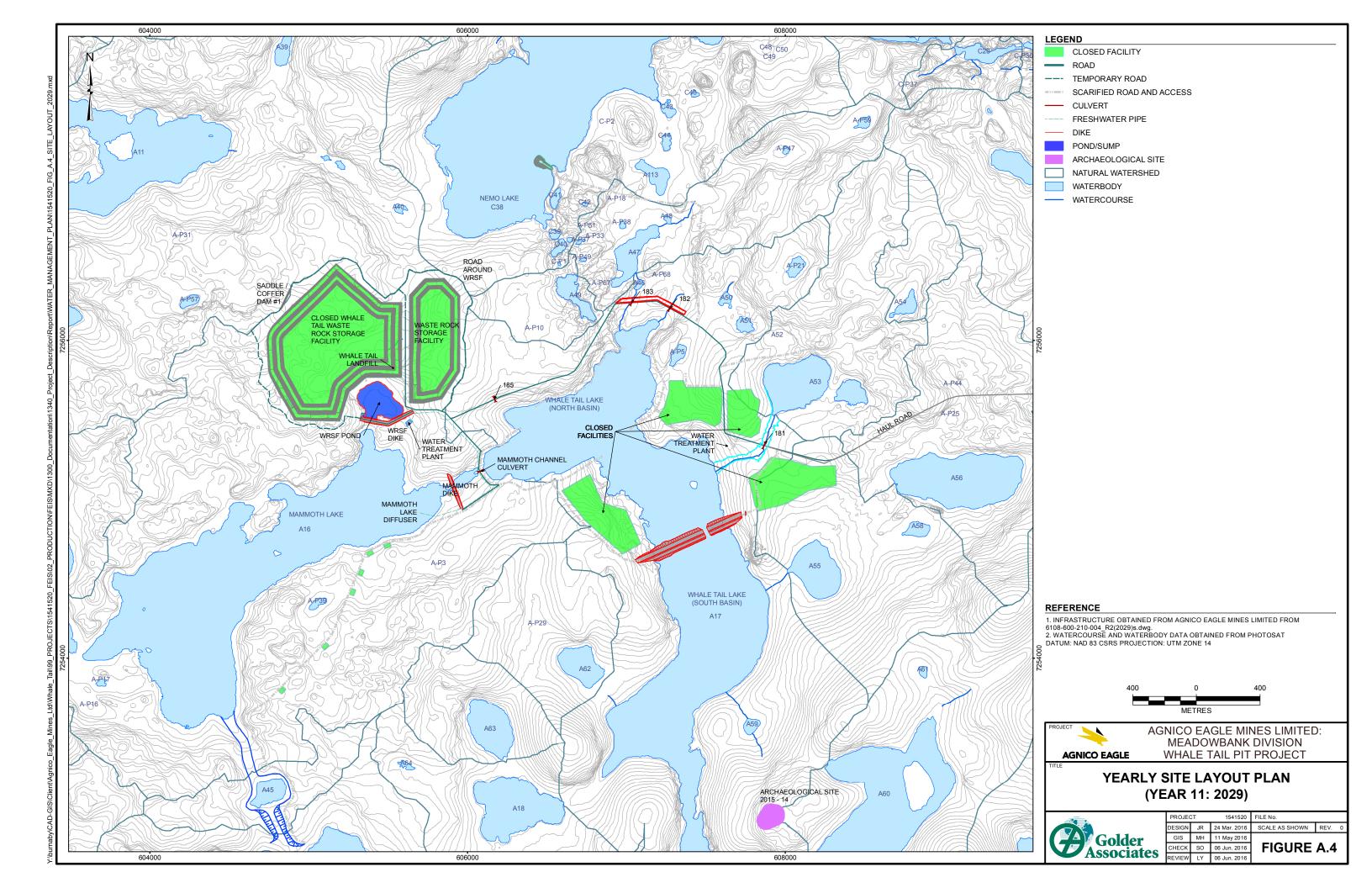
### **APPENDIX A • DRAWINGS**

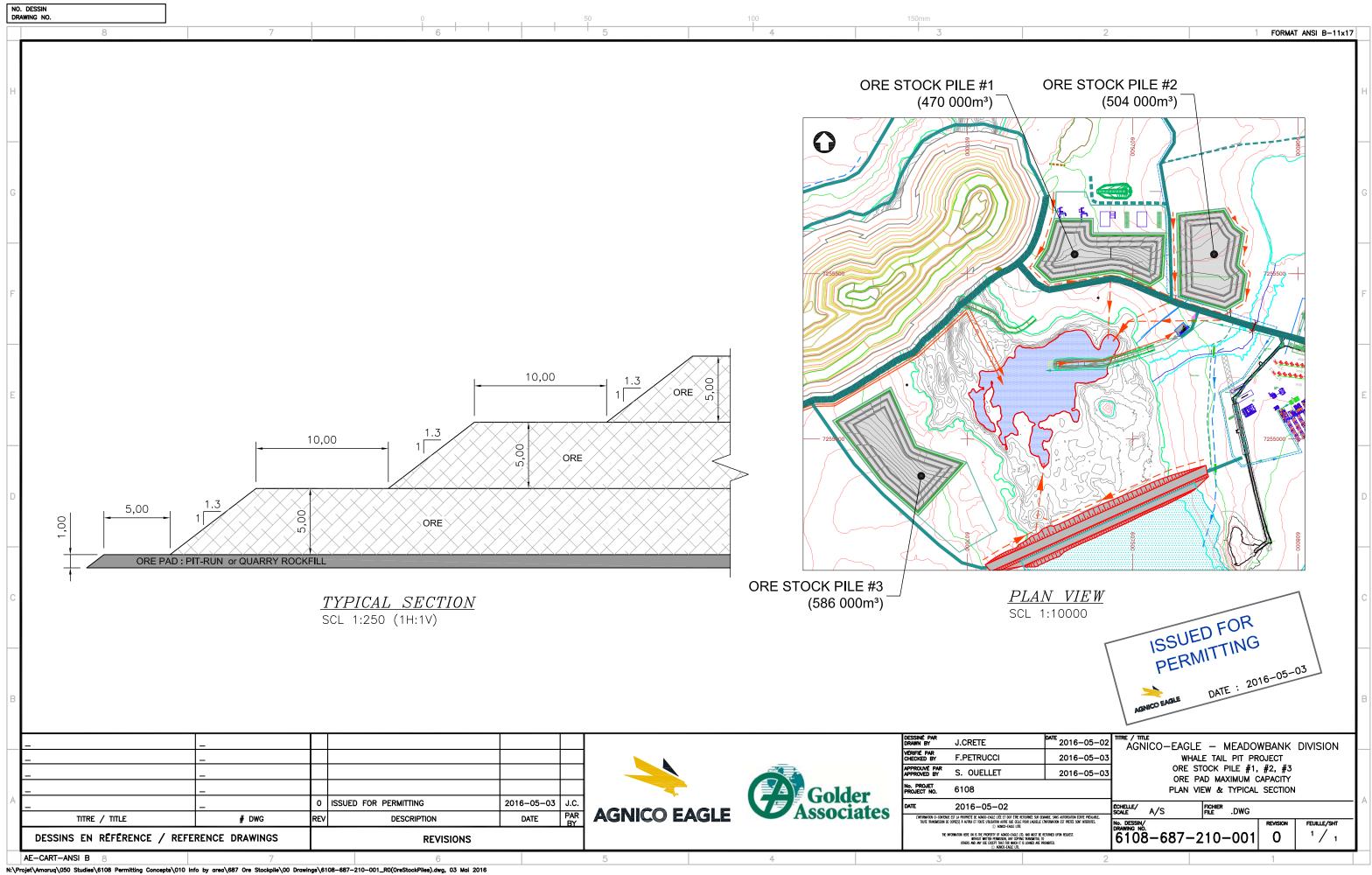
Figure A.1	Yearly Site Lay	out Plan (Year -1: 2018)
Figure A.2	Yearly Site Lay	out Plan (Year 1: 2019)
Figure A.3	Yearly Site Lay	out Plan (Year 4: 2022)
Figure A.4	Yearly Site Lay	out Plan (Year 11: 2029)
Drawing 6108	-687-210-001	Ore Stockpiles 1, 2, 3











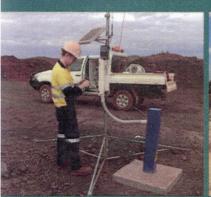
### **APPENDIX B • TFSE INTERNAL STRUCTURES DESIGN**

# Meadowbank North Cell TSF Expansion -Design of Internal Structures

March 11, 2016

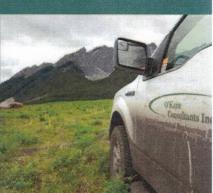












Integrated Mine Waste Management and Closure Services
Specialists in Geochemistry and Unsaturated Zone Hydrology

# Meadowbank North Cell TSF Expansion -Design of Internal Structures

948/2-01

March 2016

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00	16/01/2016	BD	MOK	BD
01	9/02/2016	PG	BD	BD
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O'Kane Consultants March 11, 2016

### 1 INTRODUCTION

Agnico Eagle Mines Ltd. (AEM) owns and operates the Meadowbank Mine located in the Kivalliq region of Nunavut, about 110 kilometres by road north of Baker Lake. Mine commissioning and first gold production from the Portage open pit began in early 2010. The Meadowbank site is located in a region of continuous permafrost where the average daily temperature is about -12°C.

Based on potential additional tailings storage capacity required at Meadowbank, AEM evaluated options to optimize disposal of tailings in the North Cell TSF to accommodate additional tailings storage requirements for Whale Tail Pit within the current footprint of the approved Tailings Storage Facility. This report considers the addition of internal dike structures placed on the frozen beach tailings in the North Cell in support of an amendment to the approved North Cell Tailings Storage Facility. AEM contracted O'Kane Consultants Inc. (OKC) to design the internal structures based on the design parameters used for designing the North Cell TSF cover system and landform.

### 1.1 Project Objectives and Scope

The objectives of the project are to design internal dike structures to provide additional tailings storage capacity in the North Cell TSF using the design parameters developed for the North Cell cover system and landform design and ensuring that the designed final landform is still practicable (hillslope grades, channel grades, and outlet locations).

The scope of the project involved

- Review of existing design information of various existing tailings retaining structures;
- Review of basis for expansion and assess the structure dimensions;
- Conceptual design of internal structures;
- Numerical analysis to inform on designs, which included;
  - Slope stability,
  - Consolidation, and
  - Seepage;
- Final design of internal structures; and
- Compilation of final report, including design drawings.

Note that the design drawings are prepared with objective of allowing Agnico to develop costs for the expansion to the extent that approval can be evaluated. From a typical project flow perspective, the drawings are suitable for regulatory purposes and for concurrent feasibility studies.

### 1.2 Report Organization

For reference, this report has been sub-divided into the following sections:

- Section 1 Introduction
- Section 2—Conceptual Design
- Section 3—Numerical Analyses
- Section 4—Final Design

### 2 CONCEPTUAL DESIGN

Based on current tailings production, AEM is looking at potential options to augment the capacity of the North Cell TSF (NC). After a review of several options, AEM decided to further explore the option of raising the North Cell to accommodate additional tailings. To accomplish this, dikes will be built along the North Cell perimeter road, which will form a perimeter for most of the North Cell TSF with the exception of above the Storm Water Dike (SWD). The dike will be placed as an offset on the tailings beach. The beach is expected to be frozen. Sufficient space will be available on the downstream side of the dike to allow for the construction of seepage water collection ditches. The seepage analysis conducted as part of this project estimates that seepage will be limited in volume and in time, as well as being manageable with minimal pumping required.

Based on the tailings production, including the Whale Tail Pit project, this report conservatively assumes 9000 tonnes per day will be deposited in the North Cell TSF over a 92 to 122-day operating season, from June to October. Deposition is planned to take place over three annual seasons from 2019 to 2021 for a total of over 3M tonnes of additional tailings deposited within the North Cell TSF. The remaining 5.3 M tonnes of storage required for the Whale Tail Pit operations will be placed in the approved South Cell Tailings Storage Facility (see Figure 2.1 - TSF site layout).

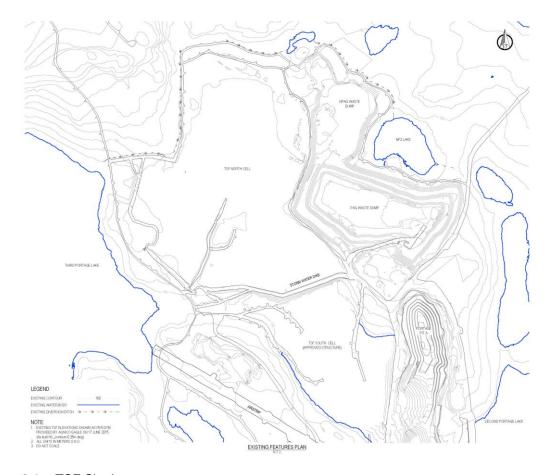


Figure 2.1: TSF Site Layout

Based on the additional space requirement in the North Cell, the present concept of the dike is one of an incline structure with minimal elevation to 152 m at its highest point along the northern portion of the TSF. It is intended to build the dike during the winter months over the frozen tailings and the previously placed 2015 capping in areas where this structure is present. The TSF closure cover system, consisting of a thermal layer of 2 to 4 m of non-acid generating (NAG) waste rock, will eventually be placed over the tailings to construct the final landform.

The rockfill dike will consist of non-potentially acid generating (NPAG) waste rock placed at angle of repose (upstream face) and at 3H:1V (downstream face) along the alignment presented in Technical Drawing 948-2-002. Note that the existing road embankment is built with a 1.3H:1V outer slope. The conceptual model assumes that this slope angle will not meet the long-term (closure) stability criteria, and therefore a reduction in this angle is required for the existing dike (to 3H:1V). On this basis, the slope for the new dike is proposed to also be set at 3H:1V.

The dike width at the crest is to be determined by construction equipment to be used. Technical drawings presented here show a 15m crest width, suitable for 2-way traffic with 50 t haul trucks. Numerical modelling of slope stability and seepage were done with a 30m wide dike. Sensitivity analysis of seepage showed no difference in seepage rates and total volumes between the 15 m and 30 m options. The height of the dike will vary between 2m and 4m, the higher portion located in the northern section of the TSF.

### 3 NUMERICAL ANALYSES

As part of the design process, it was necessary to ensure that the dikes would be safe and stable over the long-term as well as to account for seepage collection systems that may be required. Numerical analyses were completed to ensure that the dike design accounted for geotechnical slope stability and the quantity of potential seepage through the dike. Consolidation of tailings underneath the dike was also considered. Seven (7) typical cross-sections were developed for numerical modelling of slope stability and seepage. Each cross-section represents an area of the rockfill dike around the TSF, incorporating the specific infrastructure and foundation details (Figure 3.1).

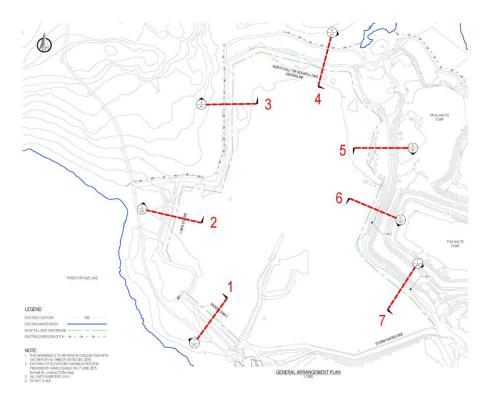


Figure 3.1: Plan view of Meadowbank North Cell TSF with slope stability and seepage analysis cross section locations.

### 3.1 Slope Stability Analyses

The purpose of this analysis is to evaluate the overall stability of the TSF, as well as the effects of dike location on TSF stability.

This section provides the design basis information, modelling methodology, summary of modelling scenarios, and summary of model results. Appendix B provides a summary of material properties, and all slip plane profiles.

### 3.1.1 Design Basis

The design basis set the following general criteria to be maintained.

- Meet or exceed required factors of safety (FS).
- Accommodate additional tailings.
- Feasibility of the construction approach (based on cost and effort).
- When the dike is used as a haul road, mine health and safety regulations, NWT/Nunavut will be followed.
- CDA 207 Dam Safety Guidelines will be followed.
- Maintain adequate setback to facilitate other works

Calculated FS values will then be compared to the minimum required values (i.e. the slope stability criteria). The minimum FS values are summarized in Table 3.1.

Table 3.1: Summary of minimum factor of safety values utilized for slope stability criteria

Condition	FS Value	Basis for FS Value
End of Construction	1.3	During or immediately after construction
Operations	1.5	Steady seepage with maximum tailings deposit
Closure	1.5	Long term seepage with the cover system
Pseudo static	1.0	Earthquake loading

### 3.1.2 Modelling Methodology

The commercial software SLOPE/W was used to conduct two-dimensional (2D) limit equilibrium analyses using the Morgenstern-Price method for static loading with a circular slip surface. In stability analyses, trial failure surfaces were defined with 'entry and exit' parameters, resulting in a range of

possible locations within which the most critical potential failure surface may be found. The SLOPE/W program incorporates a search routine to locate those failure surfaces with the least factor of safety (FS) within the defined search limits. Calculated FS values were then compared to the minimum required values (slope stability criteria). Figure 3.2 presents a typical cross-section developed for the slope stability analysis. All cross-sections developed are available in Appendix B.

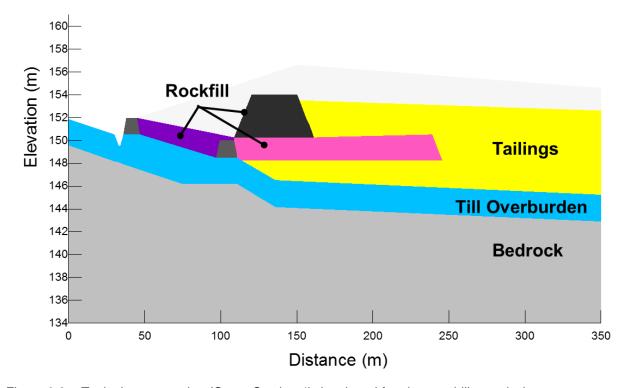


Figure 3.2: Typical cross section (Cross-Section 4) developed for slope stability analysis

# 3.1.3 Modelling Scenarios

Four scenarios were considered:

- End of Construction rockfill extension dike in place but tailings placement has yet to commence.
- 2) Operation All tailings placed within the TSF.
- 3) Closure Cover system placed over entire TSF.
- 4) Seismic Loading a horizontal acceleration coefficient of 0.06 is applied to the scenario that has the lowest FS obtained from above three static case analyses.

For all scenarios, unfrozen materials were simulated as fully saturated with a maximum pore-water pressure of 20 kPa. Frozen materials were simulated with a -1 m pressure head. The rockfill extension dike in scenario 1 and any material within 2 m (the minimum TSF cover) of the surface were simulated as unfrozen.

### 3.1.4 Results

Table 3.2 provides a summary of the results for all four scenarios for each of the seven cross-sections.

Additional sensitivity analyses were completed using cross-sections 2 and 4 (Table 3.3). The angle of internal friction (phi) was reduced from 45° to 40° and 35°. Select models were also completed with the maximum pore-water pressure decreased to 10 kPa; results for these scenarios are in brackets in Table 3.3.

# 3.2 Seepage Analyses

Seepage analyses are required to address the potential for seepage through the rockfill extension dike. The main objective of the seepage modelling is to estimate seepage volumes through the rockfill dike, design appropriate seepage collection infrastructure as required, evaluate the need for a low permeability component on the internal slope of the rockfill extension dike, and evaluate if the width of the rockfill extension dike can be reduced.

Seepage modelling is completed assuming no permafrost formation within the rockfill as a "worst-case" scenario, defining the conservative seepage range through the extension dike. Thermal modelling undertaken as part of the North Cell TSF Cover System Design (OKC 948-01-02) shows that the permafrost active layer reaches 2 m depth for the warmest years of a 100-year climate database, taking into account climate change conditions. Assuming that the rockfill dike is constructed during the winter months and is 4 m thick where seepage is most important, the thawing front would not reach the base of the rockfill dike and the 2015 capping material will remain frozen. The conditions set out for the analysis where the rockfill dike is assumed unfrozen in its entirety, including a portion of the 2015 capping, are therefore considered conservative.

Table 3.2: Summary of slope stability analysis results.

Scenario	FS	Slip Surface
End of Construction	1.6	Up-stream (U/S), along the rockfill dike slope
Operation	1.6	Down-stream (D/S), along the rockfill dike slope
Closure	3.1	Through the cover, rockfill dike, and saddle dam
Seismic Loading	1.3	D/S, along the rockfill dike slope
End of Construction	1.5	U/S, through the rockfill dike and tailings
Operation	2.0	D/S, through the rockfill dike and saddle dam
Closure	2.1	Through the cover, rockfill dike, and saddle dam
Seismic Loading	1.3	U/S, through the rockfill dike and tailings
End of Construction	2.4	D/S, through the rockfill dike, 2015 capping
Operation	1.7	D/S, along the rockfill dike slope
Closure	2.0	Through the cover, NC road, 2015 capping and overburden
Seismic Loading	1.4	Along the rockfill dike slope
End of Construction	2.4	D/S, through the rockfill dike,2015 capping, and overburden
Operation	1.9	D/S, along the rockfill dike slope
Closure	2.5	Through the cover, 2016 capping and overburden
Seismic Loading	1.5	D/S, along the rockfill dike slope
End of Construction	2.7	U/S, through the rockfill dike and 2015 capping
Operation	1.7	D/S, along the rockfill dike slope
Closure		Not analyzed*
Seismic Loading	1.4	Along the rockfill dike slope
End of Construction	1.7	U/S, through rockfill dike and tailings
Operation	1.7	Along the rockfill dike slope
Closure		Not analyzed*
Seismic Loading	1.6	U/S, through the rockfill dike and tailings
End of Construction	1.6	U/S, through the rockfill dike and tailings
Operation	1.6	U/S, through the rockfill dike and tailings
Closure		Not analyzed*
	End of Construction  Operation  Closure  Seismic Loading  End of Construction  Operation  Operation  Closure	End of Construction         1.6           Operation         1.6           Closure         3.1           Seismic Loading         1.3           End of Construction         2.0           Closure         2.1           Seismic Loading         1.3           End of Construction         2.4           Operation         1.7           Closure         2.0           Seismic Loading         1.4           End of Construction         2.4           Operation         1.9           Closure         2.5           Seismic Loading         1.5           End of Construction         2.7           Operation         1.7           Closure         Seismic Loading         1.4           End of Construction         1.7           Closure         Seismic Loading         1.6           Seismic Loading         1.6           Construction         1.6           Operation         1.6

<sup>\*</sup>Failure cannot occur due to rock storage facility sitting outside of the dike.

Cross-	Scenario	FS			Olin Confee
Section		Phi=35°	40°	45°	Slip Surface
	End of Construction	1.4	1.4	1.5	U/S, through the rockfill dike and tailings
2	Operation	1.5	1.7	2.0	D/S, through the rockfill dike and saddle dam
2	Closure	1.5	1.8	2.1	Through the cover, rockfill dike, and saddle dam
	Seismic Loading	1.1	1.2	1.3	Through the rockfill dike and saddle dam
	End of Construction	2.2	2.2	2.4	D/S, along the rockfill dike slope
4	Operation	1.3	1,6	1.9	Through the cover, 2016 capping and overburden
4	Closure	2.3	2.4	2.5	D/S, along the rockfill dike slope
•	Seismic Loading	1.1	1.3	1.5	D/S, along the rockfill dike slope

Table 3.3: Sensitivity analysis results

Completing the seepage simulations required definition of the following model inputs:

- · geometry for each typical cross-section;
- · material properties;
- surface boundary condition;
- lower boundary condition;
- · external edge boundary condition; and,
- internal edge boundary condition.

Each of these inputs are described in Appendix C with results summarized below. The cross section locations are shown in Figure 3.1. The geometry for all cross sections are provided in Appendix C. The geometry for cross section 4, which showed the maximum seepage rates, is provided in Figure 3.3.

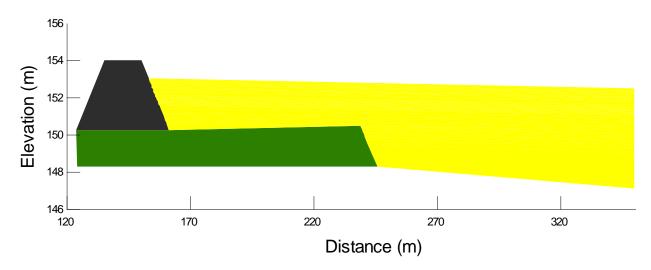


Figure 3.3: Cross-section 4 geometry at the end of deposition

### 3.2.1 Results

### 3.2.1.1 Transient Simulations

The results of the transient seepage analysis are summarized in Table 3.4. Cross-sections 1 and 7 resulted in negligible seepage; hence, no results are provided. Note that the "affected dike length" is estimated based on OKC's assumption that the rockfill dike will be built at the outer edge of the 2015 cover system placement. However, the annual tailings thickness were estimated assuming the extension dike is along the interior edge of the 2015 cover system as provided by AEM. This adds additional conservatism to the results as the dike length will either be shorter (if placed on the interior edge) or the tailings thickness will be reduced (if the dike is placed on the exterior edge of the 2015 cover system). The results are also conservative because the weekly amount of tailings are simulated as being placed, fully saturated, all at once rather than distributed throughout the week as in reality.

Table 3.4: Summary of transient seepage results for each deposition season.

Summer	Cross- Section	Maximum Seepage Velocity	Maximum Seepage Rate	Seepage per Length of Dike	Affected Dike Length	Maximum Daily Seepage Volume	Total Season Seepage Volume
		(m/s)	(m³/day/m)	(m³/m)	(m)	(m³/day)	(m³)
	3	9.3E-07	0.03	1.7	724	22	1,227
2019	4	8.8E-06	0.5	12.3	681	341	8,358
	Total					363	9,585
	3	1.0E-05	0.07	2.5	724	51	1,779
2020	4	2.2E-05	0.15	3.3	681	102	2,266
2020	5	1.0E-06	0.01	0.6	559	6	312
	Total					159	4,357
	2	2.2E-06	0.03	2.4	851	26	2,070
	3	1.6E-05	0.03	2.5	724	22	1,811
2021	4	3.5E-05	0.24	6.4	681	163	4,339
2021	5	2.0E-06	0.09	6.8	559	50	3,776
	6	9.3E-07	0.01	0.1	480	5	39
	Total					266	12,035
2022	2	3.8E-06	0.12	2	851	102	1,702
(no cover system in place)	3	2.3E-05	0.16	2.6	724	116	1,882
	4	2.6E-06	0.23	4	681	157	2,724
	5	1.1E-05	0.12	1.3	559	67	727
	6	5.8E-06	0.10	0.7	480	48	336
	Total					490	7,371

Transient simulations were completed with the dike width at its crest at 30 m as well as with the width reduced to 15 m. Both scenarios resulted in similar results; hence, overall dike width does not influence anticipated seepage rates, which is a function of the assumed conditions, as well as the properties of the materials modelled. 15 m was determined as the minimum width to accommodate 2-way traffic with 50-ton haul trucks.

Simulation of cross-section 4 was completed with a filter layer along the interior slope of the extension dike. This model showed that the presence of a filter layer does not influence seepage rates unless the k<sub>sat</sub> of the filter layer is lower than the k<sub>sat</sub> of the tailings.

# 3.2.1.2 Steady-State Simulations

A steady-state simulation was completed for the end of each deposition season for each cross-section using anticipated maximum seepage during that season to determine: the absolute maximum seepage rate and velocity; and, the maximum distance from the dike that tailings could still contribute to the seepage rate. The results are provided in Table 3.5. These values are highly conservative as the entire tailings mass, and the flow path through the extension dike, are assumed to be fully saturated and to remain so throughout the simulation. In reality, there would likely be some storage capacity available within the tailings and/or dike thus reducing the seepage rate. If the system was fully saturated as simulated, this condition would quickly dissipate.

Table 3.5: Summary of steady-state seepage results for the end of each deposition season.

Summer	Cross- Section	Maximum Seepage Velocity (m/s)	Maximum Seepage Rate (m³/day/m)	Affected Dike Length (m)	Maximum Daily Seepage Volume (m³/day)	Maximum Contributing Distance from Dike (m)
2019	3	1.3E-03	51	724	36,924	47
2019	4	1.8E-03	66	681	44,946	95
2019	3	1.3E-03	9	724	6,516	3
(rockfill below tailings not included)	4	2.6E-03	18	681	12,258	3
	3	3.3E-03	45	724	32,580	8
2020	4	3.3E-03	50	681	34,050	8
	5	1.5E-03	22	559	12,298	74
	2	1.7E-03	73	851	62,123	8
	3	3.4E-03	76	724	55,024	25
2021	4	3.3E-03	109	681	74,229	10
	5	2.0E-03	49	559	27,391	80
	6	2.0E-03	16	480	7,680	50

Figures for all the cross-sections for each season are provided in Appendix C. Cross-section 4 (Figure 3.4 to Figure 3.7) is anticipated to have the highest seepage volume. The steady-state models show that the 2015 capping cover system rockfill layer under the tailings and dike provides a conduit for flow during the 2019 season, which allows for tailings pore-water much further away from the dike to influence seepage rates through the dike. Seepage rates and contributing distances are substantially reduced when the rockfill layer is not included in the simulation (Figure 3.5). In order to reduce seepage rates under the rockfill dike, the rockfill dike should be constructed during the winter months to ensure permafrost aggradation within the 2015 capping and the dike material. This is to ensure permafrost formation under and within the dike and to reduce the active layer to the dike itself during the deposition season, thus reducing the "conduit" effect in the rockfill material under the dike.

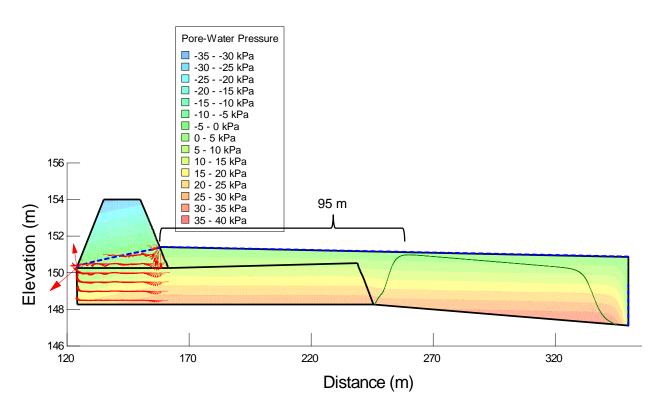


Figure 3.4: Steady-state pore-water pressure, flow paths and flow vectors for section 4 at end of 2019.

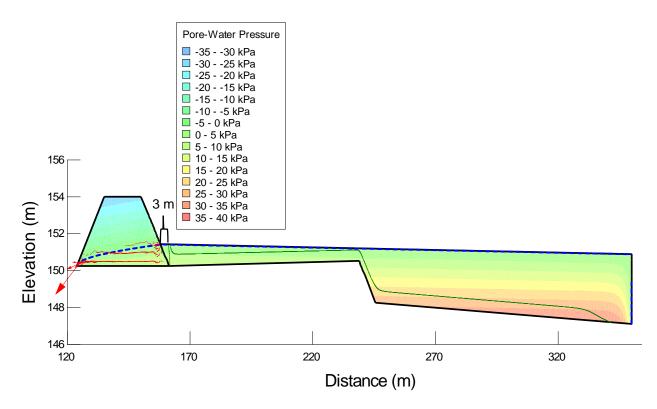


Figure 3.5: Steady-state pore-water pressure, flow paths and flow vectors for section 4 at end of 2019 when rockfill layer below tailings and dike not included.

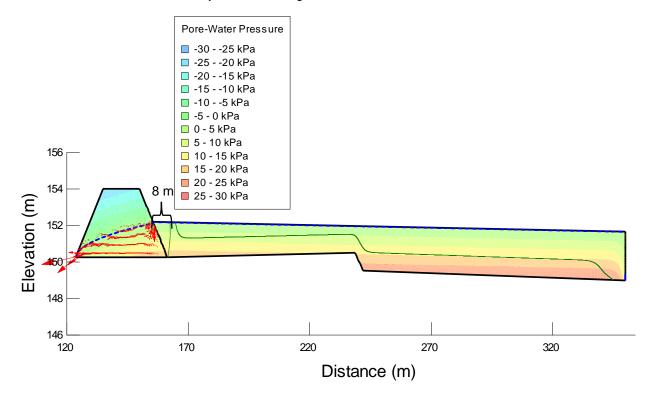


Figure 3.6: Steady-state pore-water pressure, flow paths and flow vectors for section 4 at end of 2020

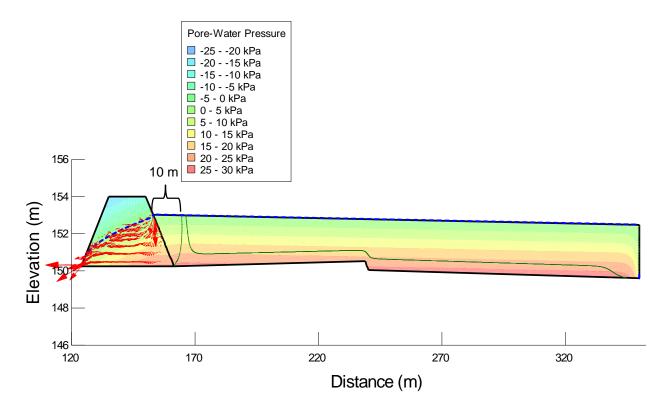


Figure 3.7: Steady-state pore-water pressure, flow paths and flow vectors for section 4 at end of 2021

It can be argued that a potential concern is fines within the tailings migrating into the extension dike via the seepage flow. It is the opinion of OKC that this "washing" of fines from the tailings will be minimal and will not influence performance of the extension dikes for the following reasons.

- The maximum seepage velocities provided in this report are very conservative, and, in the case of the maximum seepage velocities presented in Table 3.5, represent the absolute maximum seepage velocities if the full volume of annual tailings was placed, saturated and without permafrost, against the extension walls at one time. Although not as extreme as the steady-state simulations, the transient maximum seepage rates are also highly conservative as the weekly material placement is simulated as placed all at once and not distributed throughout the week as in reality.
- The maximum seepage velocities will quickly dissipate as the tailings drain; quickly losing its ability to keep particles in suspension.
- Preferential flow paths will change year-to-year due to the development of permafrost within the tailings and extension dike.
- Any initial movement of sediments will clog flow paths within the extension dike, quickly limiting flow and reducing the washing of fines from the tailings.

# 3.3 Climate Change Considerations

As part of the North Cell TSF Cover System Design (OKC 948-01-02), OKC considered climate change scenarios for the thermal analysis of the proposed cover system. Results from the thermal analysis were then used as inputs for the seepage analysis discussed in the previous section.

As part of the Intergovernmental Panel on Climate Change's (IPCC) Fifth Assessment Report (AR5), the IPCC adopted new Representative Concentration Pathways (RCPs) to replace the previous emission scenarios of the Special Report on Emission Scenarios (SRES). The two middle class scenarios: RCP4.5 and RCP6 scenarios were chosen as the most appropriate climate change scenarios for the site. RCP6 represents non-climate policy scenarios. The RCP6 scenario is more equivalent to most predictions of emissions by 2100 in the case that no climate action is taken (van Vuuren et al. 2011).

The first of the two proposed scenarios, RCP4.5, is comparable to many scenarios that include some form of climate policy. This scenario still allows for increases in emissions while also implementing a climate policy. The policy most followed by the world's countries is outlined by the United Nations Framework Convention on Climate Change (UNFCCC). The UNFCCC has the goal of stabilizing GHG emissions to a level that would prevent serious human-caused climate change. In addition to the UNFCCC, the Kyoto Protocol is the main international agreement that limits countries GHG emissions with the aim of an overall decrease. The Kyoto Protocol came into effect in 2005 and expired at the end of 2012. While several large polluters (USA and Canada included) did not sign or ratify the treaty, or did and later withdrew, others, like the European Union, are on track to achieve their reduction targets (EEA 2010). In 2013, an agreement was reached that all states of the UNFCCC would work to reduce their emissions as soon as possible. A new climate framework is to be negotiated in 2015, indicating a willingness to work toward a policy of reduced emissions. The second proposed scenario, RCP6 is a stabilization scenario where total radiative forcing stabilizes after 2100 at 6 W/m². This scenario would still require implementation of a range of technologies and strategies to reduce GHG emissions.

# 3.4 Consolidation Analyses

A one-dimensional (1-D) consolidation analysis was conducted to assess the potential for overall tailings settlement due to the additional loading from the placement of the rockfill dike. The specific purpose of this analysis was to estimate settlement of the tailings mass that would be caused by permafrost degradation due to seepage beneath the dike during operations. The analysis looked to evaluate whether the predicted long-term settlement could affect the overall integrity of the rockfill dike. It is assumed that the internal structure will remain frozen or partially frozen once operations have ceased and the tailings are capped.

Essential criteria for ensuring long-term stability due to dike construction are:

- 1) Absolute magnitude of potential settlement;
- 2) Time dependent consolidation rates; and
- 3) Magnitude of secondary settlement to ensure long-term stability.

An analytical approach was selected for the 1-D tailings consolidation analysis. Material properties (e.g. unit weight) of the tailings and reclamation cover materials were the same assumptions used for the consolidation analysis provided for the cover and landform design (OKC Report 948/1-02), and were used to calculate initial and final vertical effective stresses in the tailings mass. The tailings ultimate settlement due to consolidation was then determined based on the calculated vertical effective stresses. A tailings mass thickness of 2 m was used in the analysis, which is consistent with the thawed depth of tailings used in other analyses; not taking into account cover system placement in order to develop a conservative case.

Tailings consolidation, for the purposes of this report, is referred to as tailings volume change (settlement) at the end of tailings deposition. External loading from dike material placement is a key factor leading to tailings consolidation settlement.

The results indicate that a 2 m thick mass of tailings would consolidate to a 90% degree of consolidation in approximately 10 days. During this time, primary consolidation of the tailings would be approaching completion with a final change in height of approximately 0.29 m. Long-term consolidation, also known as creep, then commences. A secondary settlement of approximately <1 cm was calculated over a period of 100 years following completion of primary consolidation. However, it is anticipated that the tailings beneath the rockfill dike will re-freeze and therefore long-term consolidation is unlikely to occur.

The consolidation analysis is considered to be highly conservative. The conservatism in this analysis is due to:

- The assumption of 2 m of thawed tailings beneath the rockfill dike;
- The assumption that the 2 m of thawed tailings would also be at a saturation of 100%; and
- The assumption that 2 m of thawed tailings would exist instantaneously and allow primary consolidation to occur all at once.

The predicted consolidation is therefore considered to be somewhere between the minimum value of <1cm for the secondary consolidation rate (and frozen tailings) and the 0.29 m maximum value (for the 2 m of thawed tailings). If thawing due to seepage beneath the rockfill dike does occur, it is most likely to occur within the rockfill itself, rather than through the tailings. Therefore, both the thaw depth, and the fully saturated condition make this assessment highly conservative. Seepage will occur within the year of tailings placement or shortly after, so any thaw consolidation that might occur would occur over short timeframes, to enable modification to the dike elevation, if required.

O'Kane Consultants March 11, 2016

# FINAL DESIGN

The rockfill dike design was developed from the conceptual design along with completed numerical modelling to ensure the adequacy of the design meets the design and operational objectives of the infrastructure. Technical drawings were developed showing the main elements of the rockfill dike as well as its position within the North Cell TSF. Drawings are presented in Appendix A and are listed in below.

**Drawing Number Drawing Title** Description Plan view of the greater area surrounding the North 948/2-001 **Existing Feature Plans** Cell TSF Plan view of the North Cell TSF, showing the Rockfill Dike Alignment 948/2-002 Layout Plan alignment of the rockfill dike and set out data Typical cross-sections of the rockfill dike for Sections 1 948/2-003 Rockfill Dike, Sections 1-5 &2, 3&4, and 5. Typical cross-section of the rockfill dike for Sections 6 948/2-004 Rockfill Dike, Sections 6-7 & 7, and details of the filter layer

Table 4.1: Technical drawings list and description.

#### Rockfill Dike Cross-Section 4.1

The rockfill dike is constructed of NPAG material placed by haul truck and dozer. It is not designed to be a water retaining structure and numerical modelling shows that seepage reporting to the downstream side of the dike is manageable as part of regular operations. The height of the dike is limited to 4 m for its highest portions (cross-sections 3, 4 and 5 on DRG 948-2-002) and to 2 m for the remaining sections. It is suggested to limit lift height to 1m during construction to avoid particle segregation during placement and promote traffic compaction. This will further limit potential seepage during operational tailings deposition,

The rockfill dike is designed with 15 m crest width to allow for 2-way traffic with 50-ton haul trucks. If larger construction equipment was to be used, the rockfill dike may be built wider to accommodate the equipment. Seepage modelling was done on both the 15 m and 30 m dike width for cross-section 4, showing that overall width had little to no influence on the seepage rates reporting on the downstream side of the dike.

#### 4.1.1 Filter Layer

Drawing 948-2-004 shows preliminary detail of the filter layer to be placed on the upstream side of the rockfill dike prior to tailings deposition. The overall width of this filter layer is in addition to the rockfill dike crest width. The filter layer consists of 0-6" granular fill against the NPAG rockfill dike, with 0-3/4" granular fill on either side of a non-woven geotextile. The purpose of the 0-3/4" granular material and geotextile is to prevent tailings material from migrating through the coarser rockfill of the dike. The 0-6" material is a transition material to prevent the finer granular material from migrating towards the rockfill. Should the stated layer widths prove challenging to implement, these can be increased as required. Anchoring of the geotextile layer will be dependent on the chosen manufacturer specifications for installation.

#### 4.2 Rockfill Dike Alignment

The alignment presented in DRG 948-2-002 is based on a set offset from known infrastructure on the perimeter of the North Cell TSF. The offset is based on the edge of the roadway to the centre line of a 15 m wide rockfill dike. If AEM was to choose to build a wider dike to accommodate construction equipment, this additional width should be expanded on the upstream side in order to maintain the offset.

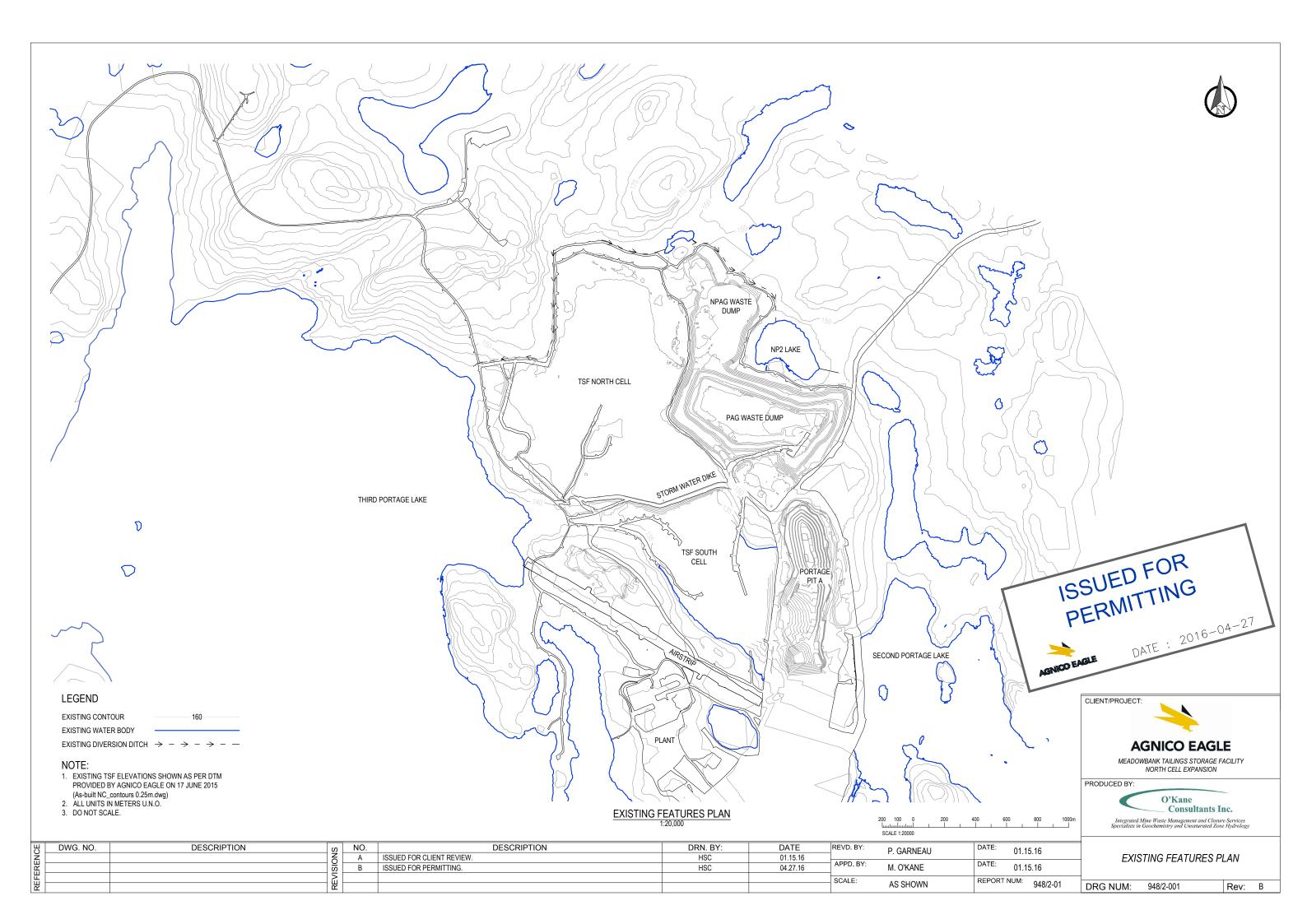
Some sections of the rockfill dike are to be built directly over the tailings beach (cross-sections 1, 2, 6 and 7) while the remainder will be built over the previously placed capping material; refer to DRG 948-2-003 and 948-2-004 for typical cross-sections.

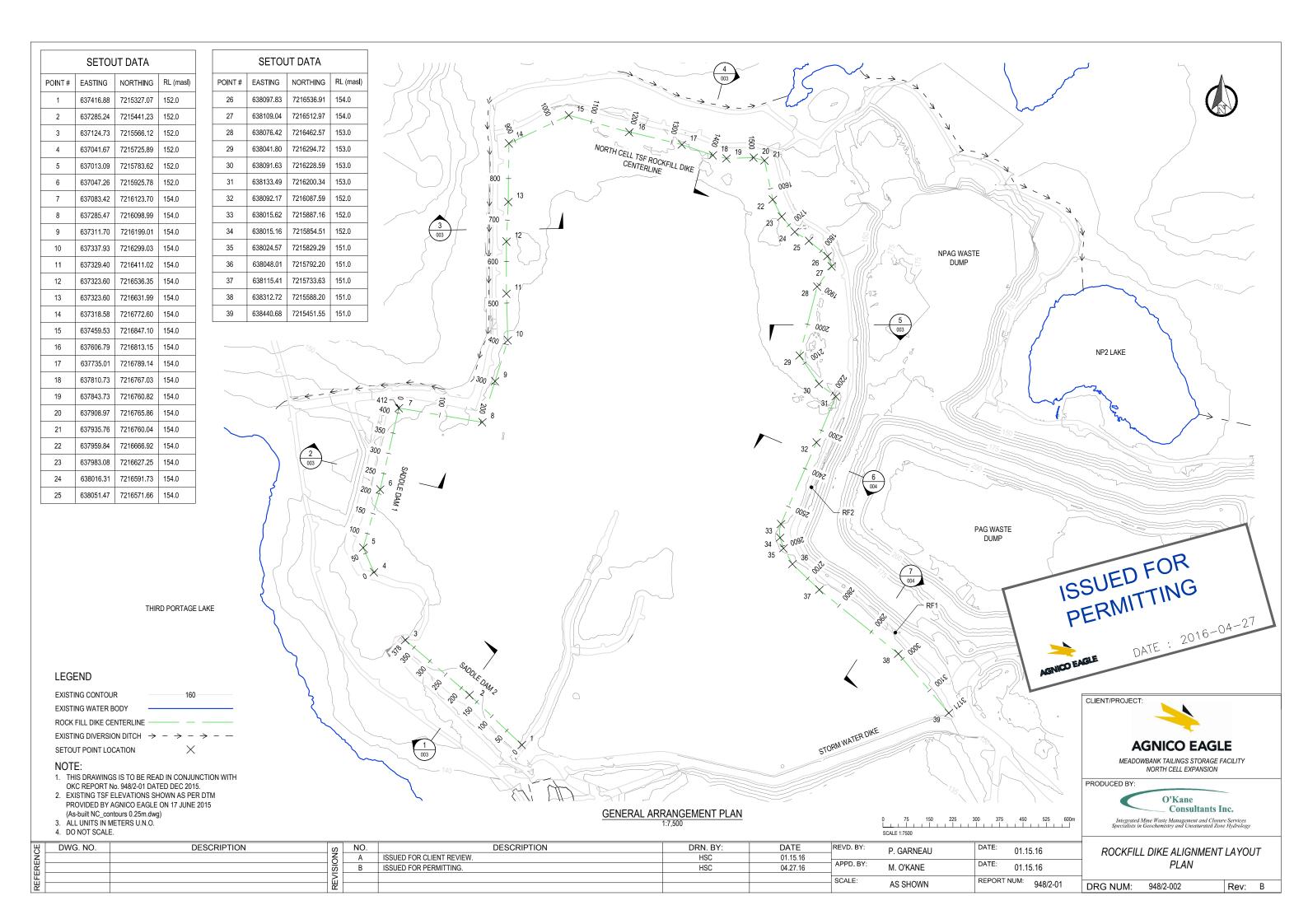
#### 4.2.1 Seepage Management Infrastructure

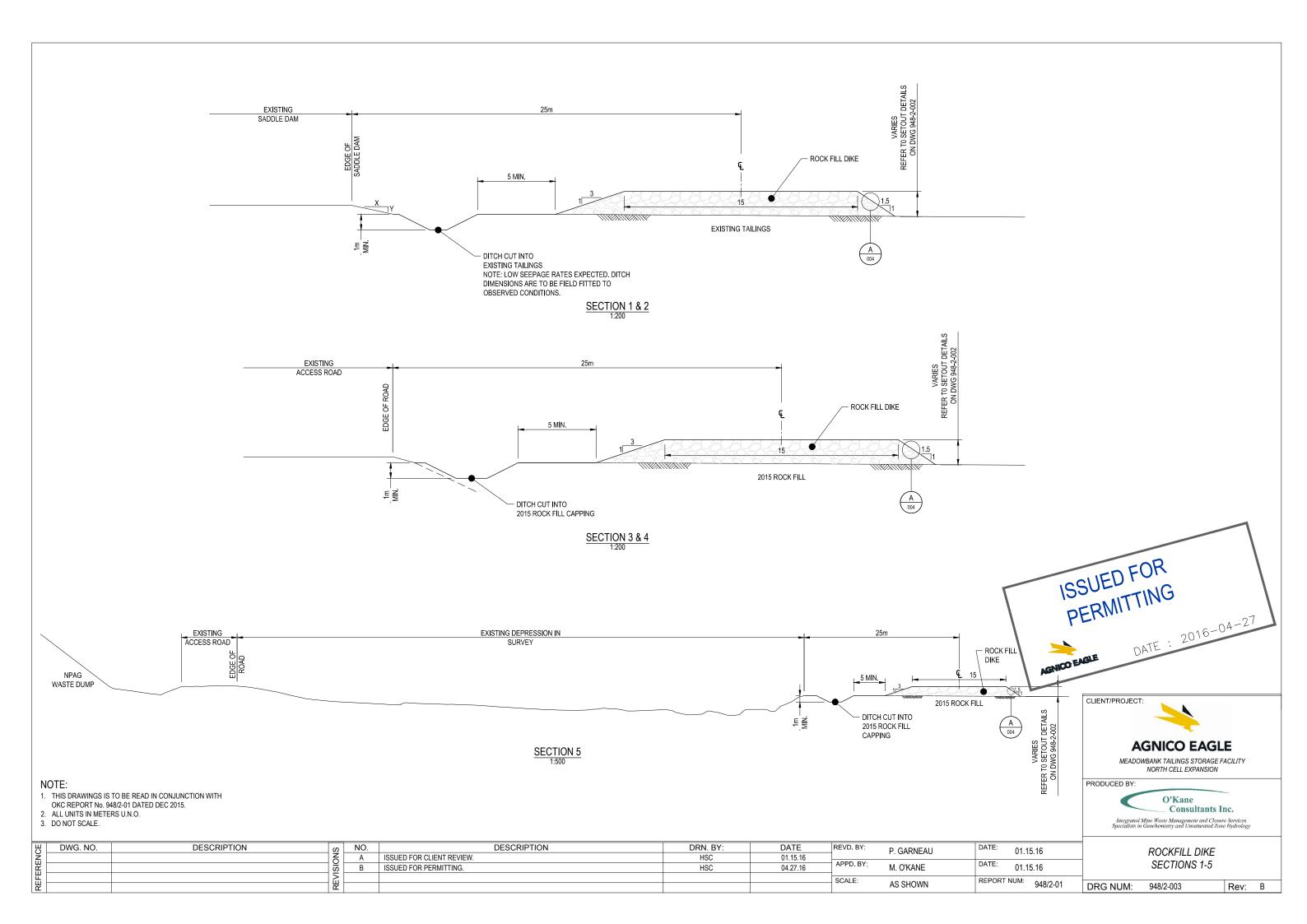
Numerical modelling developed for the project shows that seepage from the rockfill dike are limited both in volume and time. Conservative modelling suggests that most seepage occurs early following deposition and tails off when deposition stops. As deemed necessary, AEM will construct a collection ditch on the downstream side of the rockfill dike, 5 m from the toe of the dike. As survey data is conflicting for the areas close to the perimeter of the TSF, it is suggested that low-points along the collection ditch be identified during construction and collection sump positioned in these areas. The maximum daily seepage rate expected for the rockfill dike is 341 m<sup>3</sup> for the portion of the dike relating to cross-section 4 (dike length of 681 m). As such, pumping capacity of 15 m<sup>3</sup>/hr (70 gpm, 250 L/min) is sufficient to manage seepage volumes for that section of dike. As deposition of tailings will take place over a limited section of the dike at any one time, seepage is expected to be limited in extent.

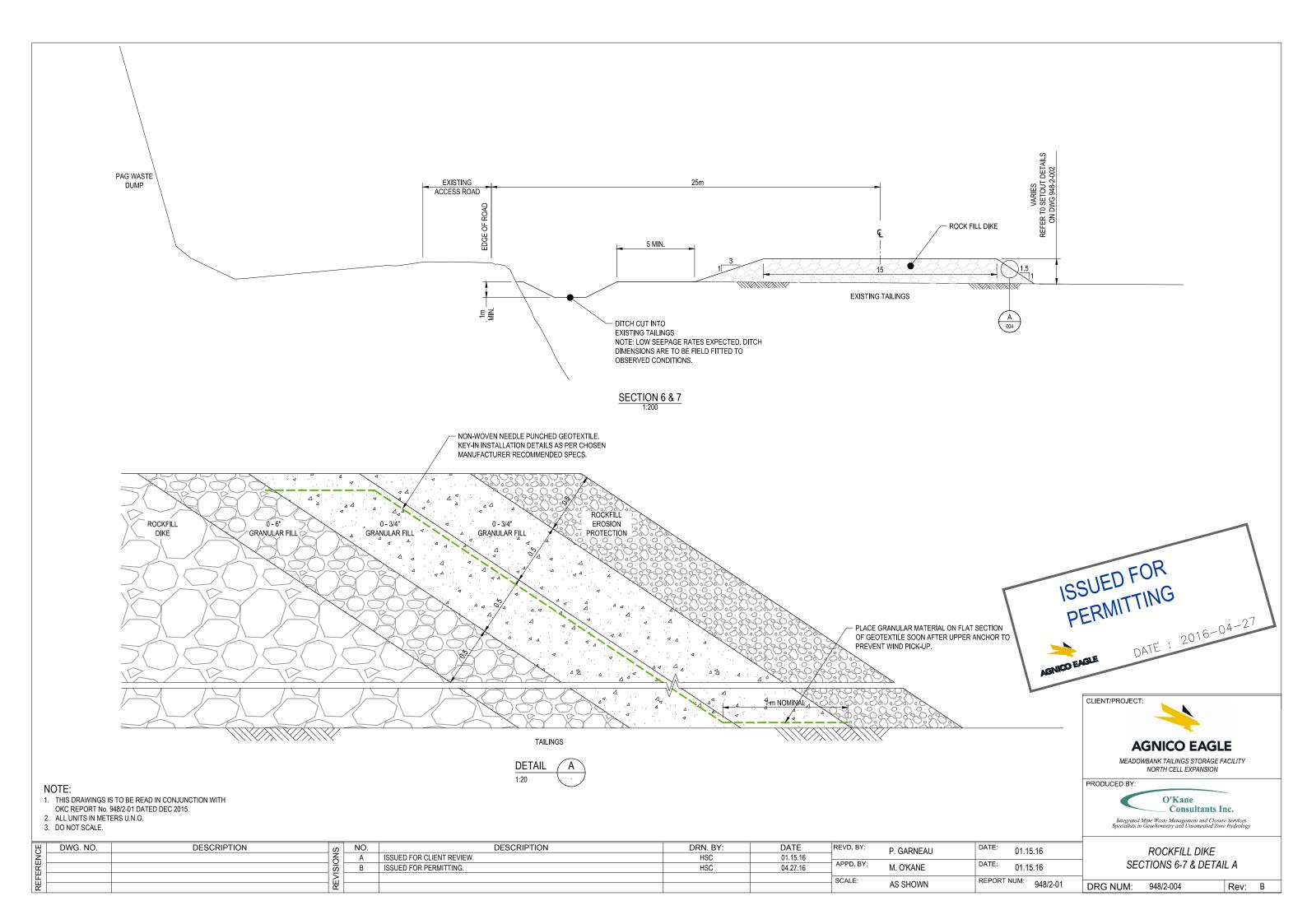
Appendix A

**Drawings** 









# Appendix B

**Slope Stability Modelling-Detailed Results** 



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# Interoffice Memorandum

To: Bonnie Dobchuk – Senior Geoenvironmental Engineer, O'Kane Consultants

**From:** Jason Song, Geoscientist P.Eng.

**Cc:** Philippe Garneau

*Our ref:* 948/2

**Date:** January 15, 2016

Re: Meadowbank North TSF Extension - Results for Slope Stability Analysis

O'Kane Consultants Inc. (OKC) was retained by Agnico Eagle Mines Ltd. (AEM) for design work to support evaluation and optimization of the current Meadowbank Tailings Storage Facility (TSF). A key component of this work is slope stability analysis of the rockfill extension dike, which will form a perimeter for most of the TSF North Cell with the exception of above the Storm Water Dike (SWD). The purpose of this analysis is to check the overall stability of the TSF as well as the effects of dyke location on the TSF stability. The body of this document provides the modelling methodology, summary of material properties, modelling cross-sections and scenarios, slope stability criteria, and summary of model results. The appendix provides all slip plane profiles.

### **Modelling Methodology**

The commercial software SLOPE/W¹ was used to conduct two-dimensional (2D) limit equilibrium analyses using the Morgenstern-Price method for static loading with a circular slip surface. In stability analyses, trial failure surfaces were defined with 'entry and exit' parameters, resulting in a range of possible locations within which the most critical potential failure surface may be found. The SLOPE/W program incorporates a search routine to locate those failure surfaces with the least factor of safety (FS) within the defined search limits.

### **Summary of Material Properties**

Table 1 provides a summary of the material properties used to simulate each component within each of the seven cross-sections.

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<sup>&</sup>lt;sup>1</sup> GEO-SLOPE International Ltd., 2014. Stability Modelling with VADOSE/W. June 2015 Edition. Calgary, Alberta, Canada.

Table 1: Summary of Material Properties

Name in Cross-Section	Material	Unit Weight (kN/m³)	Friction Angle	Cohesion (kPa)	Notes	Colour in Profiles
Cover System	Cover Material	21.0	32°	0	Estimated	
Tailings	Tailings	18.0	27°	0	Golder	
Rockfill Dike	Rockfill	22.2	45°	0	Golder	
Road / NC Road	Rockfill	22.2	45°	0	Golder	
Compacted Till	Compacted Till	21.0	32°	0	Estimated	
Overburden	Overburden	18.0	22°	0	Estimated	
Saddle Dam	Rockfill	22.2	45°	0	Estimated	
LLDPE	Geomembrane	9.0	27°	0	Estimated	
Fine Filter	Rockfill	22.2	45°	0	Golder	
Coarse Filter	Rockfill	22.2	45°	0	Golder	
Rockfill Storage Facility	Rockfill	22.2	45°	0	Estimated	
2015 Capping	Rockfill	22.2	45°	0	Estimated	
2016 Capping	Rockfill	22.2	45°	0	Estimated	
Bedrock	Bedrock	N/A	N/A	N/A	Impenetrable	

In addition, the internal friction angle of the rockfill was reduced from 45° to 40° and 35° to analyze dike's slope stability sensitivity. The friction angles of other material did not change in the sensitivity analyses.

# **Modelling Cross-Sections**

Seven cross-sections were modelled with slope stability (Figure 1). These sections were chosen along the dike perimeter and were considered representatives of all various dike segments.

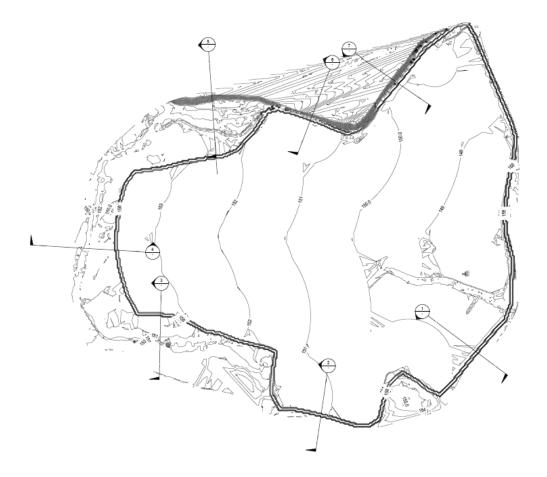


Figure 1 Locations of cross-sections for slope stability analyses for North Cell.

Dike's heights were variable, determined from the planned tailings maximum elevation that was supplied by AEM. A freeboard of approximately 0.5 m was added to the tailings maximum elevation. The maximum dike's height was 4 m. During the slope stability modelling, the dike's width was set as 30 m and the dike's slope angle was set as 3H:1V.

# **Modelling Scenarios**

Four scenarios were considered:

- 1) End of Construction rockfill extension dike in place but tailings placement has yet to commence.
- 2) Operation All tailings placed within the TSF.
- 3) Closure Cover system placed over entire TSF.
- 4) Seismic Loading a horizontal acceleration coefficient of 0.06 is applied to the scenario that has the lowest FS obtained from above three static case analyses.

For all scenarios, unfrozen materials were simulated as fully saturated with a maximum pore-water pressure of 20 kPa. Frozen materials were simulated with a -1 m pressure head. Material within 2 m of the surface were simulated as unfrozen. Figures 1 – 3 shows pore-water pressures simulated for scenarios 1) to 3),

respectively. Here Section 1 is illustrated as an example. Similar pore-water pressures were applied to other sections. The seismic loading analysis has the same pore-water pressure profile as its corresponding static case analysis. The blue dotted lines indicate zero pore-water pressure.

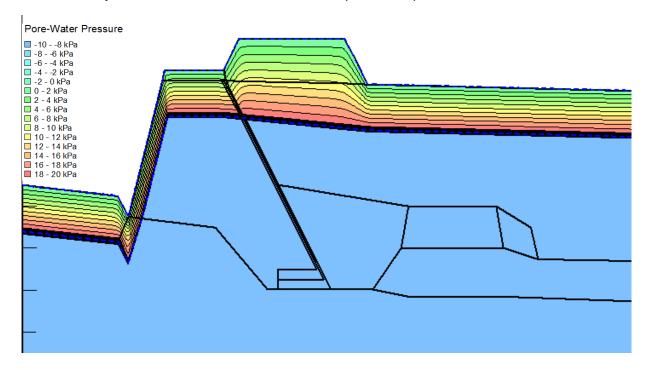


Figure 2 Pore-water pressure at the end of dike construction for Section 1.

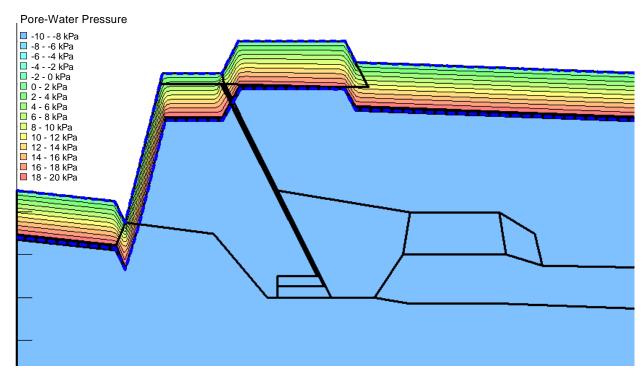


Figure 3 Pore-water pressure for the Operation scenario for Section 1.

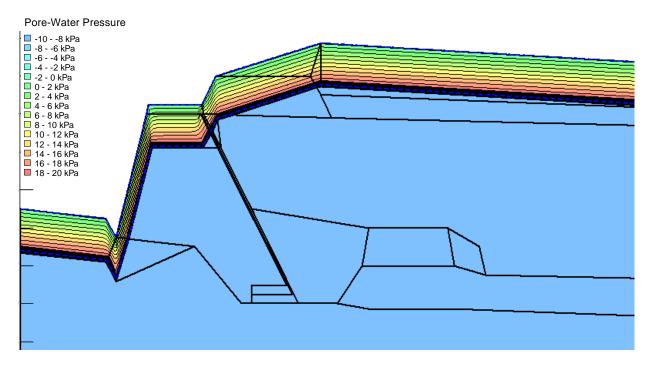


Figure 4 Pore-water pressure for the Closure scenario for Section 1.

# **Slope Stability Criteria**

Calculated FS values from the SLOPE/W program will be compared to the minimum required values (i.e. the slope stability criteria). The minimum FS values are summarized in Table 2.

Table 2: Summary of minimum factor of safety values utilized for slope stability criteria

Condition	FS Value	Basis for FS Value
End of Construction	1.3	During or immediately after dike's construction
Operation	1.5	With maximum tailings deposition
Closure	1.5	After cover system placement
Pseudo static	1.0	Seismic loading

# **Results**

Table 3 provides a summary of the results for all four scenarios for each of the seven cross-sections. The slip surfaces and factors of safety are presented in the appendix of this memorandum.

Table 3: Summary of slope stability analysis results

End of Construction 1.6 Up-stream (U/S), along the rockfill dike slope  Operation 1.6 Down-stream (D/S), along the rockfill dike slope  Closure 3.1 Through the cover, rockfill dike, and saddle dam  Seismic Loading 1.3 D/S, along the rockfill dike slope  End of Construction 1.5 U/S, through the rockfill dike and tailings  Operation 2.0 D/S, through the rockfill dike and saddle dam  Closure 2.1 Through the cover, rockfill dike, and saddle dam  Seismic Loading 1.3 U/S, through the rockfill dike and tailings  End of Construction 2.4 D/S, through the rockfill dike, 2015 capping	
Closure 3.1 Through the cover, rockfill dike, and saddle dam  Seismic Loading 1.3 D/S, along the rockfill dike slope  End of Construction 1.5 U/S, through the rockfill dike and tailings  Operation 2.0 D/S, through the rockfill dike and saddle dam  Closure 2.1 Through the cover, rockfill dike, and saddle dam  Seismic Loading 1.3 U/S, through the rockfill dike and tailings  End of Construction 2.4 D/S, through the rockfill dike, 2015 capping	
Closure 3.1 Through the cover, rockfill dike, and saddle dam  Seismic Loading 1.3 D/S, along the rockfill dike slope  End of Construction 1.5 U/S, through the rockfill dike and tailings  Operation 2.0 D/S, through the rockfill dike and saddle dam  Closure 2.1 Through the cover, rockfill dike, and saddle dam  Seismic Loading 1.3 U/S, through the rockfill dike and tailings  End of Construction 2.4 D/S, through the rockfill dike, 2015 capping	
End of Construction 1.5 U/S, through the rockfill dike and tailings  Operation 2.0 D/S, through the rockfill dike and saddle dam  Closure 2.1 Through the cover, rockfill dike, and saddle dam  Seismic Loading 1.3 U/S, through the rockfill dike and tailings  End of Construction 2.4 D/S, through the rockfill dike, 2015 capping	
Operation 2.0 D/S, through the rockfill dike and saddle dam  Closure 2.1 Through the cover, rockfill dike, and saddle dam  Seismic Loading 1.3 U/S, through the rockfill dike and tailings  End of Construction 2.4 D/S, through the rockfill dike, 2015 capping	
Closure 2.1 Through the cover, rockfill dike, and saddle dam  Seismic Loading 1.3 U/S, through the rockfill dike and tailings  End of Construction 2.4 D/S, through the rockfill dike, 2015 capping	
Closure 2.1 Through the cover, rockfill dike, and saddle dam  Seismic Loading 1.3 U/S, through the rockfill dike and tailings  End of Construction 2.4 D/S, through the rockfill dike, 2015 capping	
End of Construction 2.4 D/S, through the rockfill dike, 2015 capping	
7 3 7 11 3	
Operation 1.7 D/C close the rightfill dile close	
Operation 1.7 D/S, along the rickfill dike slope	
Closure 2.0 Through the cover, NC road, 2015 capping and overt	urden
Seismic Loading 1.4 Along the rockfill dike slope	
End of Construction 2.4 D/S, through the rockfill dike,2015 capping, and over	urden
Operation 1.9 D/S, along the rockfill dike slope	
Closure 2.5 Through the cover, 2016 capping and overburden	
Seismic Loading 1.5 D/S, along the rockfill dike slope	
End of Construction 2.7 U/S, through the rockfill dike and 2015 capping	
Operation 1.7 D/S, along the rockfill dike slope	
Closure Not analyzed*	
Seismic Loading 1.4 Along the rockfill dike slope	
End of Construction 1.7 U/S, through rockfill dike and tailings	
Operation 1.7 Along the rockfill dike slope	
Closure Not analyzed*	
Seismic Loading 1.6 U/S, through the rockfill dike and tailings	
End of Construction 1.6 U/S, through the rockfill dike and tailings	
Operation 1.6 U/S, through the rockfill dike and tailings	
Closure Not analyzed*	
Seismic Loading 1.2 U/S, through the rockfill dike and tailings	·

<sup>\*</sup>Failure cannot occur due to rock storage facility sitting outside of the dike.

The results presented in Table 3 indicate that modelled FS values satisfied the dike's slope stability criteria. It should be noted that the dike width (dike's crest width) was set as 30 m in these slope stability analyses. When the seepage modelling was completed in a later time, it was found that the dike's width can be

reduced to 15 m and had no significant impact on seepage value. It is anticipated that the FS values will not change substantially when the dike width changes from 30 m to 15 m if the slope angle of the dike maintains. However, it is considered prudent to re-visit slope stability analysis when the dike's width and location is finalized.

Sensitivity analyses were completed using cross-sections 2 and 4. Results for these scenarios are in brackets in Table 4.

FS Cross-Slip Surface Scenario Section Phi=35° 40° 45° **End of Construction** 1.4 1.4 1.5 U/S, through the rockfill dike and tailings Operation 1.5 1.7 2.0 D/S, through the rockfill dike and saddle dam 2 Closure 1.5 1.8 2.1 Through the cover, rockfill dike, and saddle dam Seismic Loading 1.1 1.2 1.3 Through the rockfill dike and saddle dam **End of Construction** 2.2 2.2 2.4 D/S, along the rockfill dike slope Operation 1.3 1.6 1.9 D/S, along the rockfill dike slope 4 Closure 2.3 2.4 2.5 Through the cover, 2016 capping and overburden

Table 4: Factor of safety values from sensitivity analysis

Sensitivity analyses indicate that FS values can satisfy the slope stability criteria when the friction angle (phi) of the rockfill material was reduced to 35° except for a lightly lower FS (1.3) than the criterion (1.5) for Section 4 Operation scenario.

1.5

D/S, along the rockfill dike slope

# **Closure**

Seismic Loading

1.1

1.3

We trust information provided in this memorandum is satisfactory for your requirements. Please do not hesitate to contact me at (403) 215-3874 or jsong@okc-sk.com should you have any questions or comments.

# **Appendix**



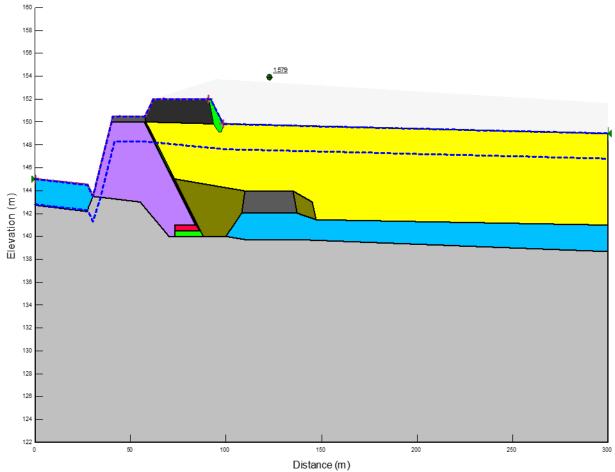


Figure 5: Cross-Section 1 – End of Construction

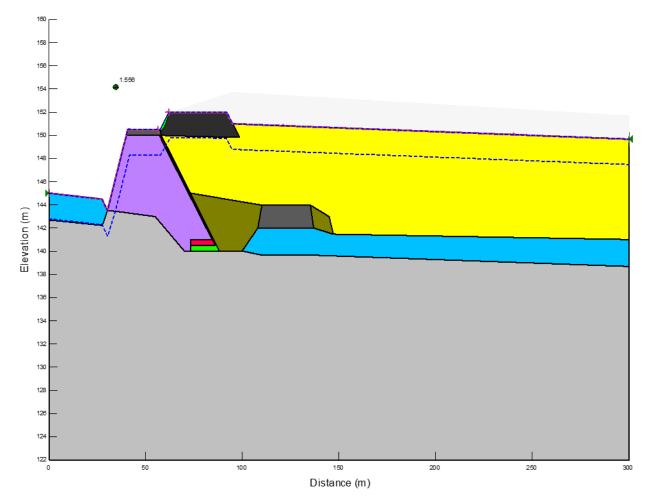


Figure 6: Cross-Section 1 – Operation

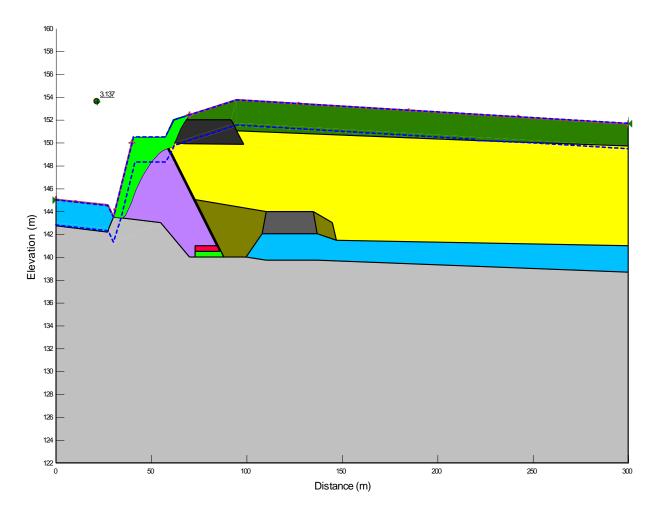


Figure 7: Cross-Section 1 - Closure

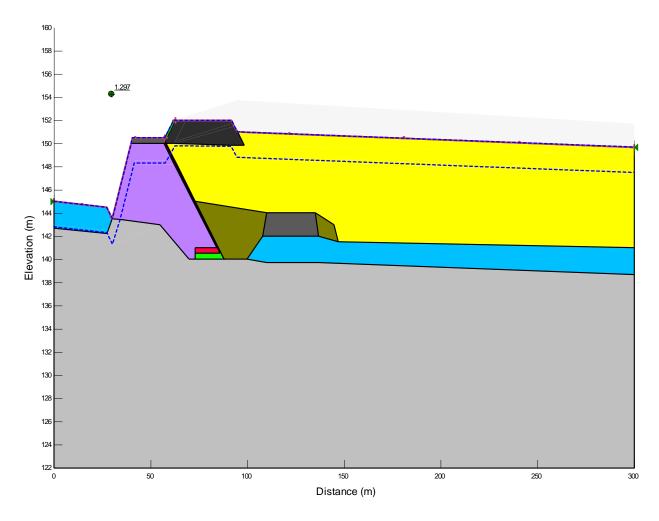


Figure 8: Section 1 – Seismic loading applied to "End of Construction" scenario

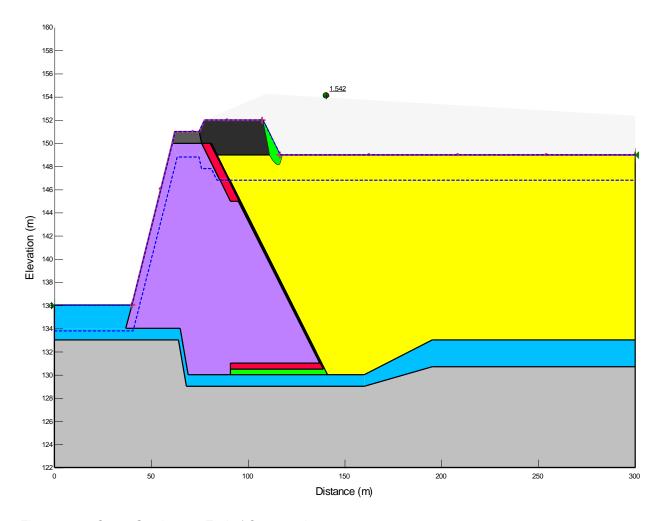


Figure 9: Cross-Section 2 – End of Construction

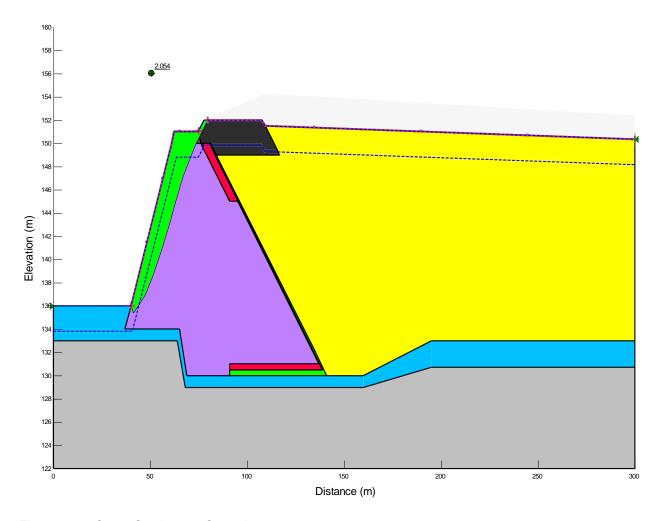


Figure 10: Cross-Section 2 – Operation

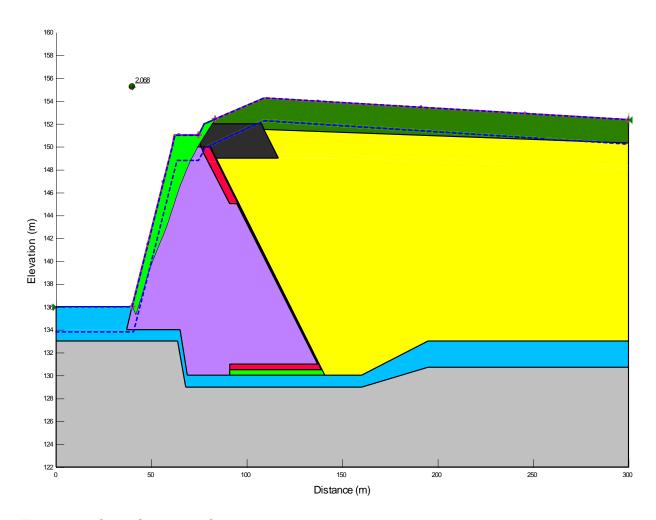


Figure 11: Cross-Section 2 – Closure

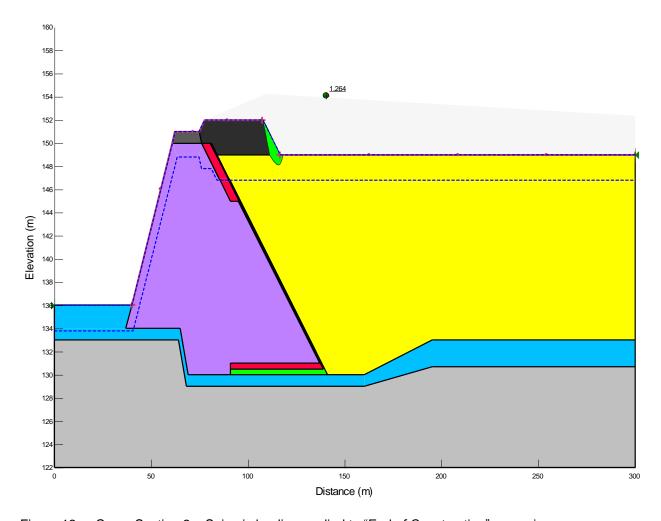


Figure 12: Cross-Section 2 – Seismic loading applied to "End of Construction" scenario

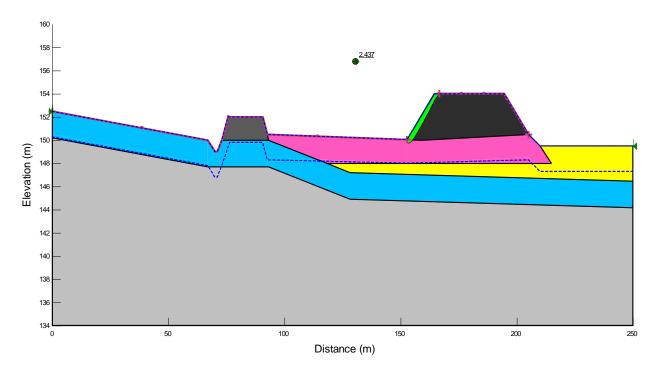


Figure 13: Cross-Section 3 – End of Construction

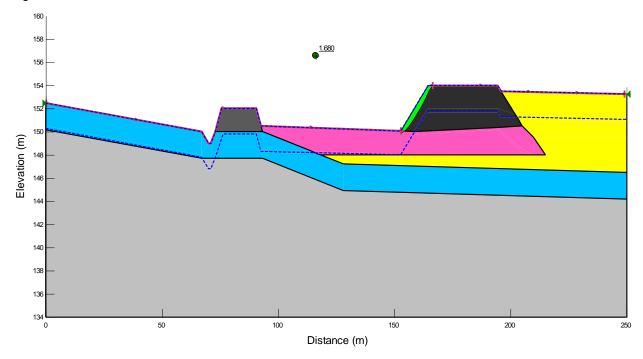


Figure 14: Cross-Section 3 - Operation

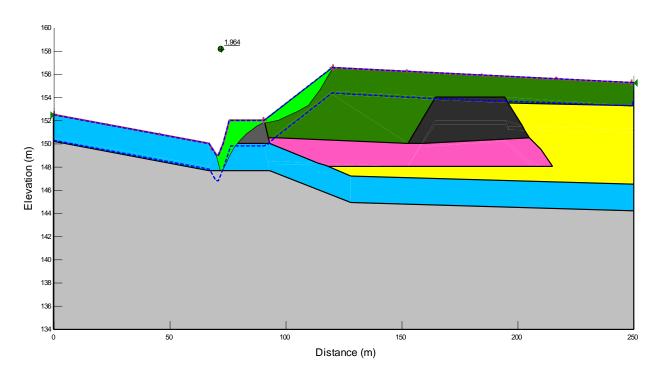


Figure 15: Cross-Section 3 – Closure

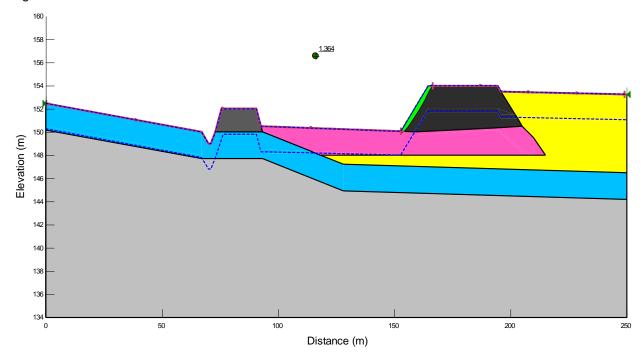


Figure 16: Cross-Section 3 – Seismic loading applied to "Operation" scenario

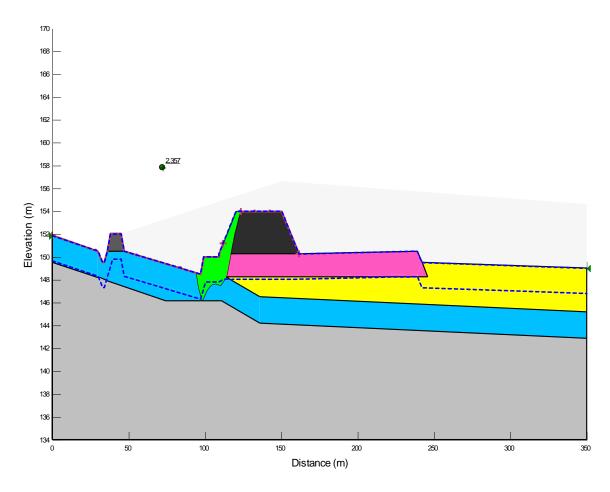


Figure 17: Cross-Section 4 – End of Construction

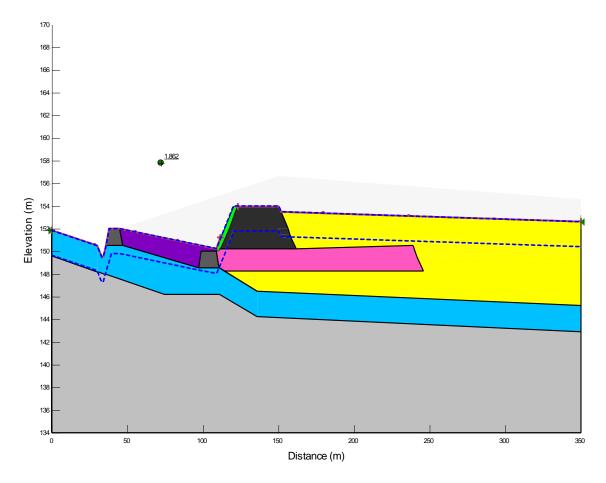


Figure 18: Cross-Section 4 – Operation

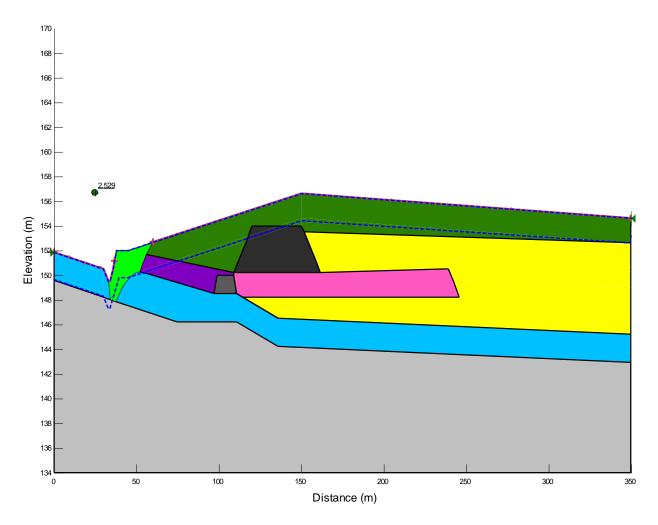


Figure 19: Cross-Section 4 – Closure

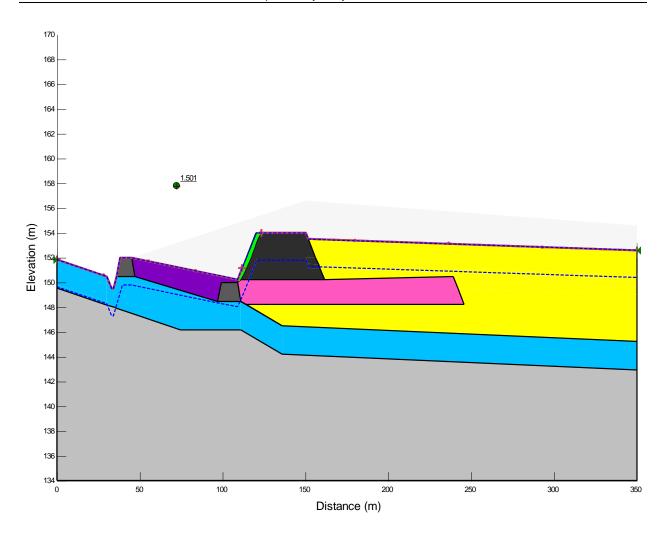


Figure 20: Cross-Section 4 – Seismic loading applied to "Operation" scenario

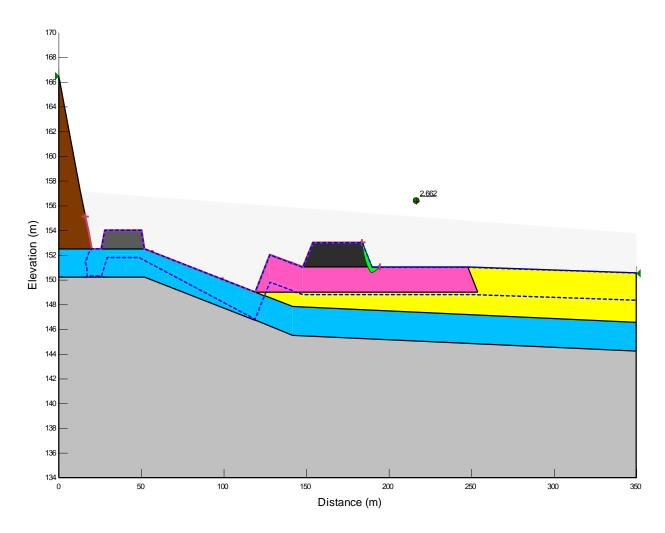


Figure 21: Cross-Section 5 – End of Construction

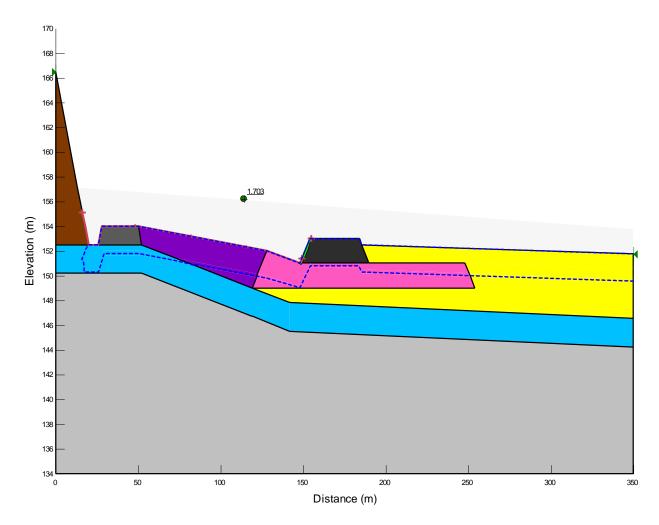


Figure 22: Cross-Section 5 – Operation

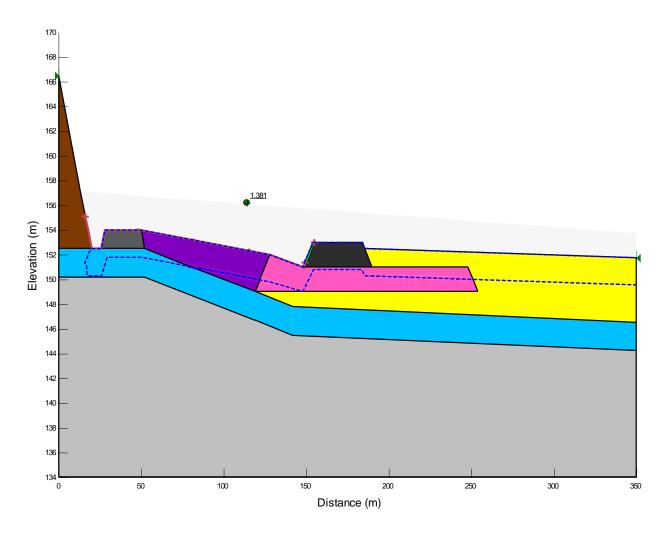


Figure 23: Cross-Section 5 – Seismic loading applied to "Operation" scenario

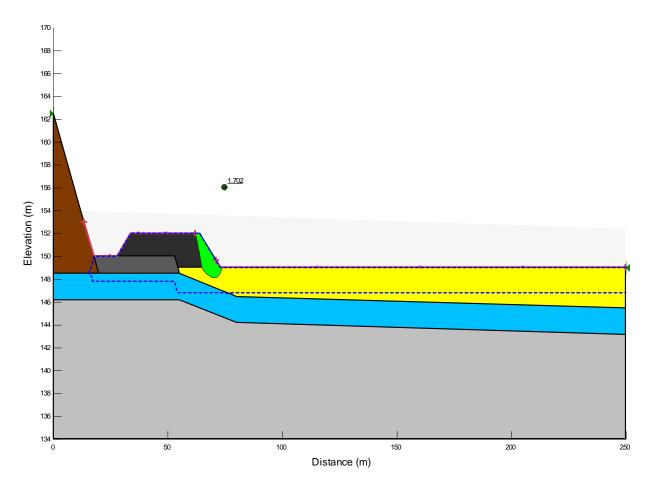


Figure 24: Cross-Section 6 – End of Construction

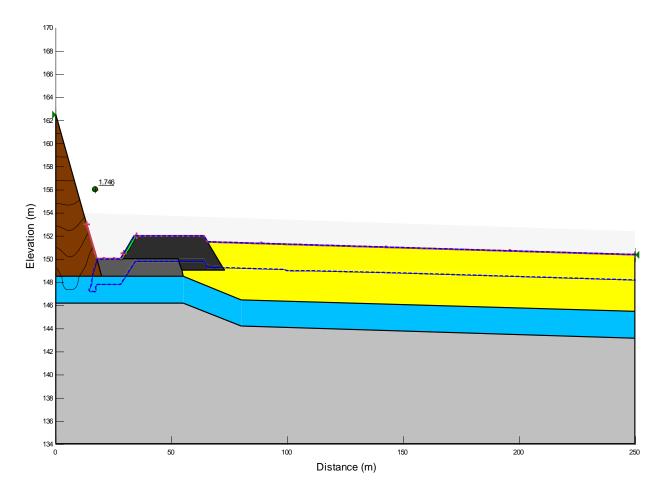


Figure 25: Cross-Section 6 – Operation

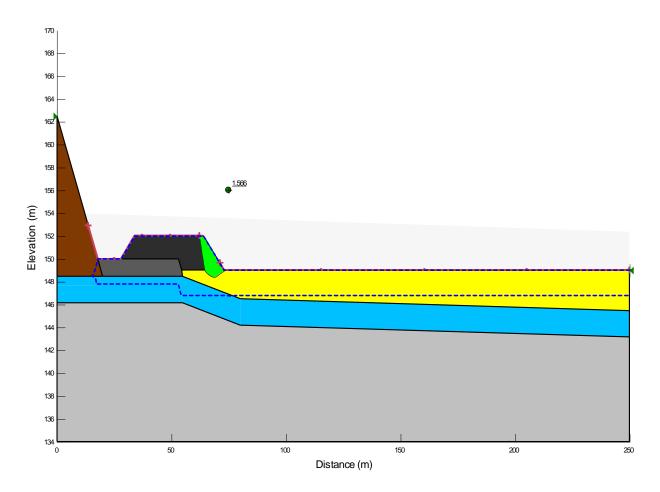


Figure 26: Cross-Section 6 – Seismic loading applied to "End of Construction" scenario

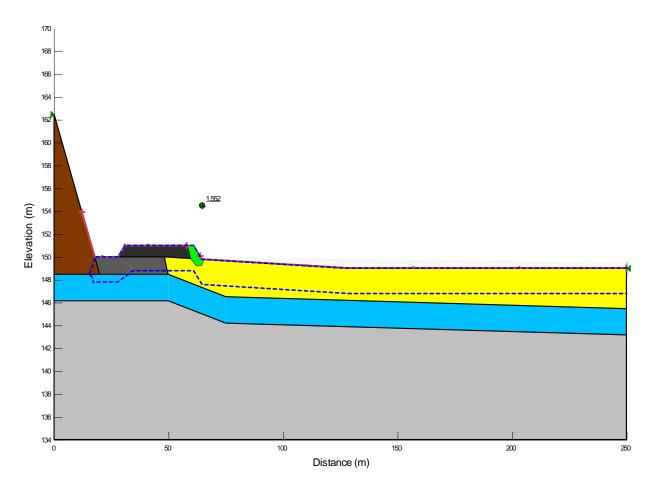


Figure 27: Cross-Section 7 – End of Construction

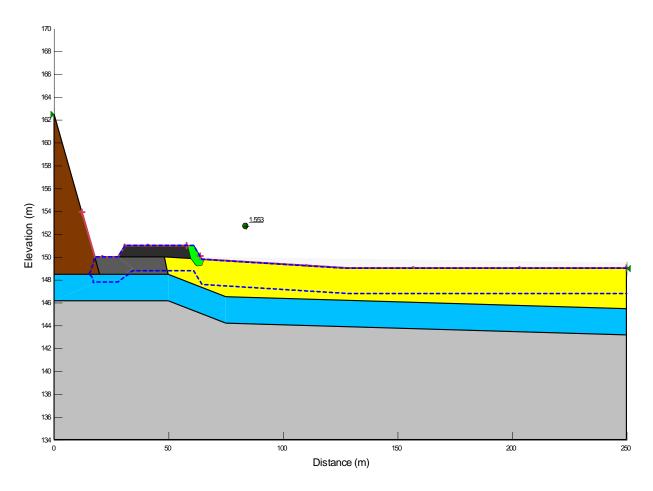


Figure 28: Cross-Section 7 – Operation

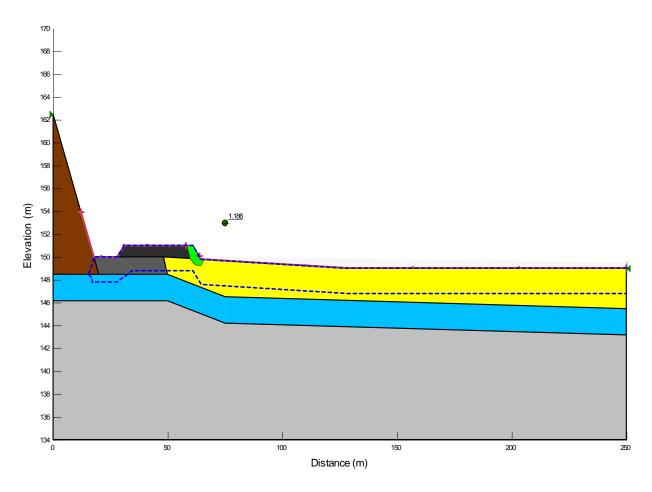


Figure 29: Cross-Section 7 – Seismic loading applied to "End of Construction" scenario

# Appendix C

**Seepage Modelling-Detailed Results** 



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# Interoffice Memorandum

**To:** Bonnie Dobchuk – Senior Geoenvironmental Engineer, O'Kane Consultants

From: Robert Shurniak, Geotechnical Engineer

**Cc:** Philippe Garneau – O'Kane Consultants

*Our ref:* 948/2

**Date:** March 17, 2016

Re: Meadowbank North TSF Extension - Results for Seepage Analysis

O'Kane Consultants Inc. (OKC) was retained by Agnico Eagle Mines Ltd. (AEM) for design work to support evaluation and optimization of the current Meadowbank Tailings Storage Facility (TSF). During the design process it was recommended that numerical analysis be completed to address the potential for seepage through the rockfill extension dike, which will form a perimeter for most of the North Cell TSF with the exception of above the Storm Water Dike (SWD). The main objective of this seepage modelling is to estimate seepage volumes through the rockfill dike, design appropriate seepage collection infrastructure as required, evaluate the need for a low permeability component on the internal slope of the rockfill extension dike, and evaluate if the width of the rockfill extension dike can be reduced. Up to this point, OKC had assumed that the permafrost would not degrade within the dike so that no seepage would flow through the rockfill extension dike. For the current exercise, seepage modelling will be completed assuming no permafrost formation within the rockfill as a "worst-case" scenario, defining the other "end-member" of the seepage range through the extension dike. As this modelling is completed, the results are provided to AEM for review to determine if information is sufficient to determine the requirement for seepage collection infrastructure or a HDPE liner; or if additional simulations of conditions between the two end-members are required.

Completing the simulations required definition of the following model inputs:

- geometry for each typical cross-section;
- material properties;
- surface boundary condition;
- lower boundary condition;
- external edge boundary condition; and,
- internal edge boundary condition.

Each of these inputs and the seepage results are described in the following sections.

#### <u>Inputs</u>

#### Geometry

Seven cross-sections of the rockfill extension dike were developed for the slope stability numerical analysis portion of this project (Figure 1). The locations of these cross-sections are shown in Figure 1. All seven cross-sections were simulated as part of the seepage analysis. The slope stability cross-sections were adapted for the seepage models in two ways:

- 1) The bedrock, till overburden and frozen tailings layers were not simulated as seepage into these regions is assumed to be negligible. Also, having no downward seepage aligns with the "worstcase" scenario by promoting seepage through the rockfill extension dike.
- 2) Additional internal regions were added so that the tailings placement could be staggered, simulating actual placement throughout the summer. This was achieved by estimating the lift thickness placed weekly during the three summer deposition periods.

All the cross-sections are provided in the appendix of this report.

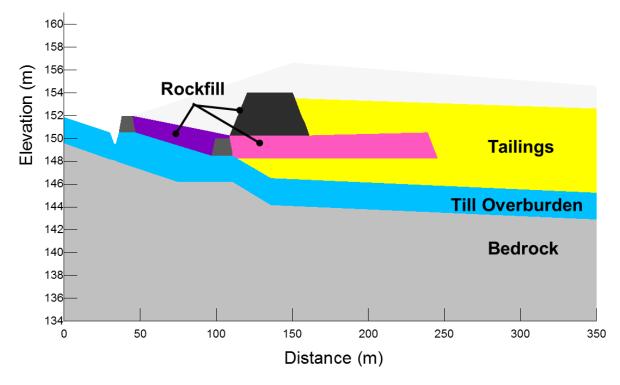


Figure 1: Typical cross section (Cross-Section 4) developed for slope stability analysis

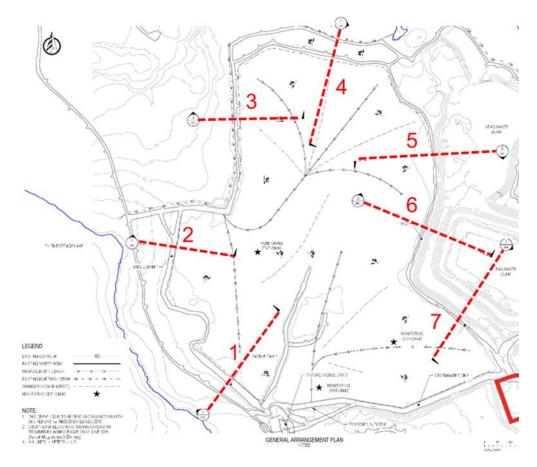


Figure 2: Plan view of Meadowbank TSF with slope stability and seepage analysis cross section locations.

#### **Material Properties**

Seepage modelling requires definition of a water retention curve (WRC) and hydraulic conductivity function (k-function) for each material simulated. For examining seepage through the rockfill extension dike, two materials need to be defined: tailings; and rockfill. It is assumed that the bedrock and till overburden layers are within the permafrost zone, and therefore essentially impermeable.

Figures 3 and 4 provide the WRCs and k-functions estimated to represent the two materials. These estimates were used for the cover system design modelling previously completed by OKC for AEM, and are based on previous work completed by Golder Associates Ltd. Particle size distribution (PSD) data is compared to material in the SoilVision database with similar PSDs and known material properties. The 'rockfill' estimates are based on previous estimates made for NPAG material for the cover system.

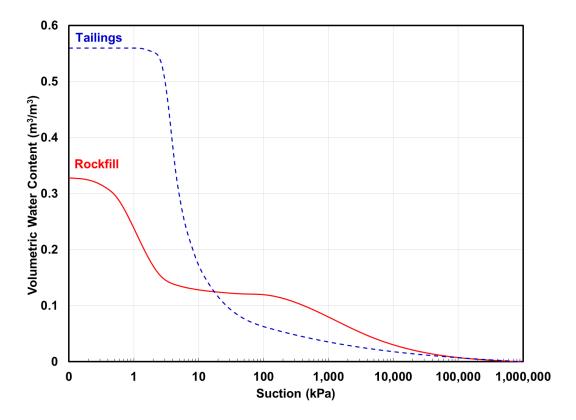


Figure 3: Water retention curves proposed to simulate Meadowbank materials.

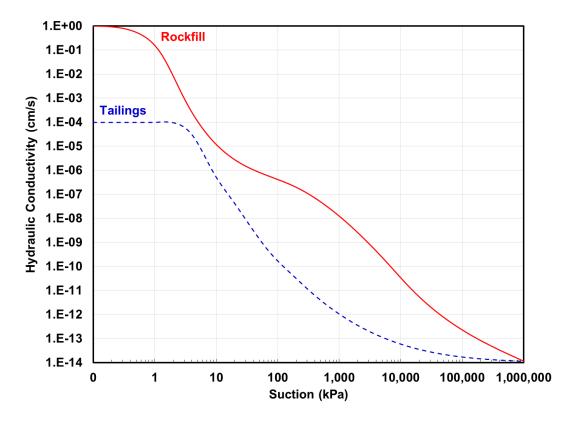


Figure 4: Hydraulic conductivity functions proposed to simulate Meadowbank materials.

#### **Surface Boundary Condition**

The surface boundary condition is mainly governed by climate; specifically, precipitation and evaporative energy. There is the potential for rainfall during tailings deposition to negate the benefits of evaporation. Hence, the worst-case from a seepage point of view is to not include a surface flux attributable to climate. This means water is only added in the model by the deposition of tailings and removed either by lateral seepage downslope towards the pond or through the rockfill extension dike.

# **Lower Boundary Condition**

The lower boundary is assumed to be a no flow boundary due to the presence of permafrost. If seepage was allowed from the lower boundary it would reduce the potential for seepage through the rockfill extension dike. Therefore, the current concept does not necessitate simulating a permeable lower boundary.

The lower boundary is moved upward at the end of each season to maintain the estimated maximum 2 m active layer.

#### **External Edge Boundary Condition**

The external edge of the rockfill extension dike (i.e. the edge exposed to the atmosphere) is simulated as a potential seepage face to allow water to drain though the dike.

## **Internal Edge Boundary Condition**

The internal edge of the simulated cross-section(s) (i.e. the edge within the TSF) was simulated as a potential seepage face placed far enough away from the extension dike so as to not influence seepage through the dike.

# Results

#### **Transient Simulations**

The results of the transient seepage analysis are summarized in Table 1. Cross-sections 1 and 7 resulted in negligible seepage; hence, no results are provided. Note that the "affected dike length" is estimated based on OKC's assumption that the rockfill dike will be built at the outer edge of the 2015 cover system placement. However, the annual tailings thickness were estimated assuming the extension dike is along the interior edge of the 2015 cover system as provided by AEM. This adds additional conservatism to the results as the dike length will either be shorter (if placed on the interior edge) or the tailings thickness will be reduced (if the dike is placed on the exterior edge of the 2015 cover system).

Table 1: Summary of transient seepage results for each deposition season

Summer	Cross- Section	Maximum Seepage Velocity	Maximum Seepage Rate	Seepage per Length of Dike	Affected Dike Length	Maximum Daily Seepage Volume	Total Season Seepage Volume
		(m/s)	(m³/day/m)	(m³/m)	(m)	(m³/day)	(m³)
2019	3	9.3E-07	0.03	1.7	724	22	1,227
	4	8.8E-06	0.5	12.3	681	341	8,358
	Total					363	9,585
2020 -	3	1.0E-05	0.07	2.5	724	51	1,779
	4	2.2E-05	0.15	3.3	681	102	2,266
	5	1.0E-06	0.01	0.6	559	6	312
•	Total					159	4,357
2021 -	2	2.2E-06	0.03	2.4	851	26	2,070
	3	1.6E-05	0.03	2.5	724	22	1,811
	4	3.5E-05	0.24	6.4	681	163	4,339
	5	2.0E-06	0.09	6.8	559	50	3,776
	6	9.3E-07	0.01	0.1	480	5	39
	Total					266	12,035
2022 (no cover system in place)	2	3.8E-06	0.12	2	851	102	1,702
	3	2.3E-05	0.16	2.6	724	116	1,882
	4	2.6E-06	0.23	4	681	157	2,724
	5	1.1E-05	0.12	1.3	559	67	727
	6	5.8E-06	0.10	0.7	480	48	336
•	Total					490	7,371

Transient simulations were completed with the dike width at its crest at 30 m as well as with the width reduced to 15 m. Both scenarios resulted in similar results; hence, overall dike width does not influence

anticipated seepage rates. 15 m was determined as the minimum width to accommodate 2-way traffic with 50-ton haul trucks.

Simulation of cross-section 4 was completed with a filter layer along the interior slope of the extension dike. This model showed that the presence of a filter layer does not influence seepage rates unless the  $k_{sat}$  of the filter layer is lower than the  $k_{sat}$  of the tailings.

#### **Steady-State Simulations**

A steady-state simulation was completed for the end of each deposition season for each cross-section using anticipated maximum seepage during that season to determine: the absolute maximum seepage rate and velocity; and, the maximum distance from the dike that tailings could still contribute to the seepage rate. The results are provided in Table 2. These values are highly conservative as the entire tailings mass, and the flow path through the extension dike, are assumed to be fully saturated and to remain so throughout the simulation. In reality, there would likely be some storage capacity available within the tailings and/or dike thus reducing the seepage rate. If the system was fully saturated as simulated, this condition would quickly dissipate.

Table 2: Summary of steady-state seepage results for the end each deposition season

Summer	Cross- Section	Maximum Seepage Velocity (m/s)	Maximum Seepage Rate (m³/day/m)	Affected Dike Length (m)	Maximum Daily Seepage Volume (m3/day)	Maximum Contributing Distance from Dike (m)
2019	3	1.3E-03	51	724	36,924	47
2019	4	1.8E-03	66	681	44,946	95
2019 (rockfill below tailings not included)	3	1.3E-03	9	724	6,516	3
	4	2.6E-03	18	681	12,258	3
	3	3.3E-03	45	724	32,580	8
2020	4	3.3E-03	50	681	34,050	8
	5	1.5E-03	22	559	12,298	74
	2	1.7E-03	73	851	62,123	8
	3	3.4E-03	76	724	55,024	25
2021	4	3.3E-03	109	681	74,229	10
	5	2.0E-03	49	559	27,391	80
	6	2.0E-03	16	480	7,680	50

Figures for all the cross-sections for each season are provided in the appendix. Cross-section 4 (Figures 15 to 18) is anticipated to have the highest seepage volume. The steady-state models show that the 2015 cover system rockfill layer under the tailings and dike provides a conduit for flow during the 2019 season, which allows for tailings water much further away from the dike to influence seepage rates through the dike. Seepage rates and contributing distances are substantially reduced when the rockfill layer is not included

in the simulation (Figure 16). In order to reduce seepage rates under the rockfill dike, a winter season should pass between construction of the dike and tailings deposition in that area. This is to ensure permafrost formation under and within the dike and to reduce the active layer to the dike itself during the deposition season, thus reducing the "conduit" effect in the rockfill material under the dike.

#### **Consolidation Analysis**

The tailings consolidation analysis aims at determining the consolidation process at the north cell of the TSF that may occur beneath the rockfill dyke. Settlement rates of fine tailings have to be distinguished between primary and secondary (long-term) consolidation portions. Essential criteria for both stabilization of tailings due to covering and ensuring long-term stability due to decommissioning are:

- 1) Absolute magnitude of settlement;
- Time dependent consolidation rates; and
- 3) Magnitude of secondary settlement to ensure long-term stability of the rockfill dykes.

#### **Objectives and Scope**

A one-dimensional (1-D) consolidation analysis was conducted to assess the potential for overall tailings settlement due to the additional loading from the placement of the rockfill dyke. The specific purpose of this analysis was to estimate long-term settlement of the tailings mass, and evaluate whether the predicted long-term settlement could affect the overall integrity of the rockfill dykes.

An analytical approach was selected for the 1-D tailings consolidation analysis. Material properties (e.g. unit weight) of the tailings and dyke construction materials (NPAG waste rock) were estimated based on material characterization work completed from previous studies provided by AEM, and were used to calculate initial and final vertical effective stresses in the tailings mass. The tailings ultimate settlement due to consolidation was then determined based on the calculated vertical effective stresses. A tailings mass thickness of 2 m was used in the analysis, which represents the tailings thickness at the location where the rockfill dyke will be placed, or in the case of thicker tailings zone, the maximum potential depth the tailings may thaw.

Tailings consolidation for the purposes of this report is referred to as tailings volume change (settlement). External loading from rockfill dyke placement is a key factor leading to tailings consolidation settlement.

# **Methods of Analysis**

Figure 5 illustrates the loading conditions. The scenario simulates tailings consolidation when a 4 m rockfill dyke is placed on top of the tailings mass.

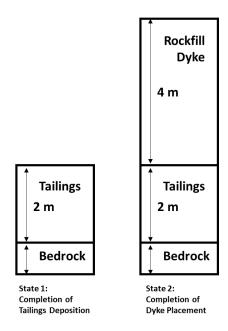


Figure 5: Tailings consolidation analysis scenario

Consolidation analyses are based on changes of effective stress in the tailings. Equation 1 and 3 were used to calculate the primary consolidation and secondary compression of the tailings mass, respectively. Initial and final effective stresses were calculated based on the tailings initial and final state.

Primary consolidation is the change in volume of tailings caused by the expulsion of water from the voids and the transfer of load from excess pore water pressure to the soil particles following dyke placement (Zardari 2010). The equation below was used to determine the primary consolidation of the tailings mass following placement of a 4 m rockfill dyke overlying the tailings mass (Table 3 and 4 summarize the inputs).

$$(\delta_c)_{Primary} = \frac{c_c}{1+e_0} H \log \left( \frac{\sigma'=f}{\sigma'=0} \right)$$
 [1]

where:

 $(\delta_c)$  = is the settlement due to consolidation

 $c_c$  = is the compression index,

e<sub>o</sub> = is the initial void ratio,

H = is the thickness of tailings material (m),

 $\sigma_{zf}$  = is the final vertical effective stress (kN), and

 $\sigma_{zo}$ ' = is the initial vertical effective stress (kN).

It was assumed that the tailings were normally consolidated and the compressibility is defined by the compression index, Cc. The Rendon-Herrero (1983) method was applied to determine the compression index (Equation 2).

$$C_c = 0.141G_s^{1.2} \left(\frac{1+e_0}{G_s}\right)^{2.38}$$
 [2]

Table 3: Key inputs for the tailings consolidation analysis

Property	Rockfill Dyke	Tailings	
Dry Density (t/m³)	2.15	1.31	
Specific Gravity	3.2	3	
Unit Weight (kN/m³)	24.27	18.36	
Void Ratio	0.49	1.29	
Porosity	32.8	56.3	
Saturation	1	1	
Hydraulic Conductivity (cm/s)	NA	5.00E-07	
Thickness (m)	4	2	

Table4: Key parameters for the tailings consolidation analysis

Parameter	Value
Compression Index (Cc)	0.2771
Secondary compression Index (Ca)	0.00160
Coefficient of volume compressibility (mv)	0.00175
Coefficient of consolidation (Cv)	1.55E-05
Time Factor for 90% degree of consolidation (Tv)	0.848

# **Analytical Results**

The modelled relationship, Equation 1, showed that a primary consolidation of approximately 0.19 m is achieved following construction of a 4 m rockfill dyke. Figure 6 presents the relationship between the change in primary consolidation and cover thickness.

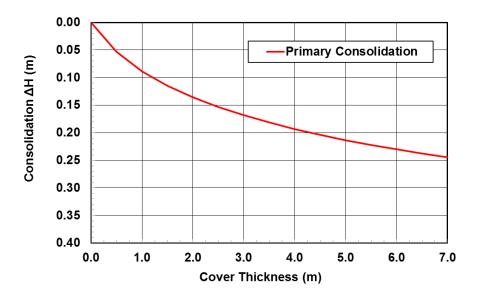


Figure 6: Primary consolidation vs. cover thickness

The results indicate that a 2 m thick mass of tailings would consolidate to a 90% degree of consolidation in approximately 10 days. During this time, primary consolidation of the tailings would be approaching completion with a final change in height of approximately 0.4 m. Long-term consolidation, also known as creep then commences. A secondary settlement of approximately 0.5 cm was calculated over a period of 100 years following completion of primary consolidation. Figure 7 presents the time-dependent long-term consolidation which occurred over a long period of time in response to the placement of the cover system.

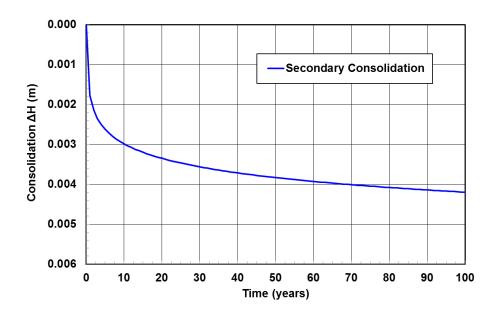


Figure 7: Tailings secondary consolidation model (settlement rate prediction for 100 years)

# **Key Findings**

Key findings from the tailings consolidation analysis are as follows:

- 1) In general, the tailings ultimate settlement for the Northern Cell TSF tailings beneath the rockfill dykes is approximately 0.2 m.
- 2) It is considered highly unlikely that the tailings underlying the rockfill dyke will thaw, and if some thaw occurs it will be substantially less than 2 m into the underlying tailings.

## **Closure**

We trust information provided in this memorandum is satisfactory for your requirements. Please do not hesitate to contact me at (250) 585-7328 or rshurniak@okc-sk.com should you have any questions or comments.

# **Appendix**

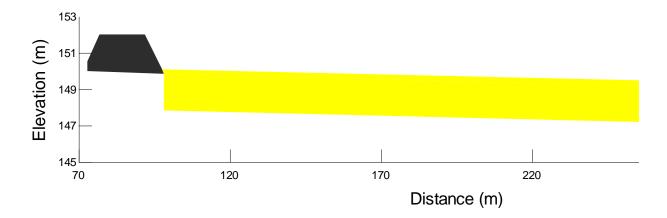


Figure 5: Cross-section 1 geometry at the end of deposition.

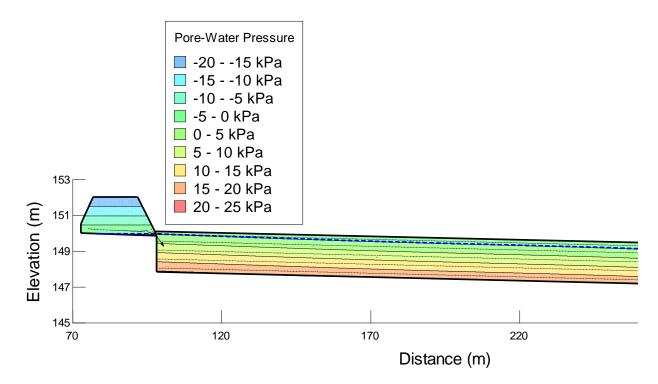


Figure 6: Cross-section 1 pore-water pressure, and flow vectors at end of 2021. No flow into the dike.

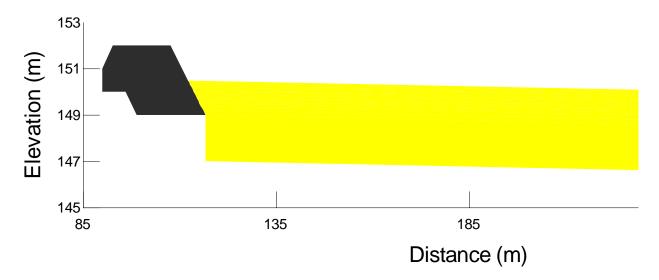


Figure 7: Cross-section 2 geometry at the end of deposition

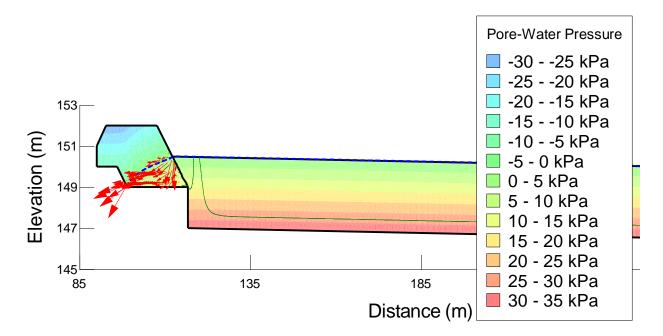


Figure 8: Steady-state pore-water pressure, flow paths and flow vectors for section 2 at end of 2021

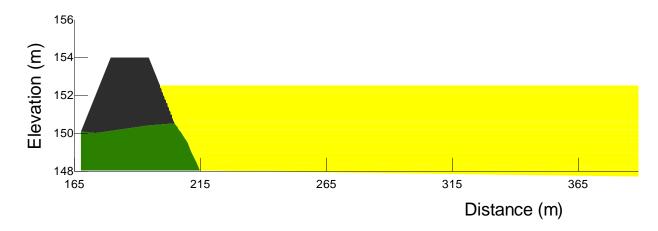


Figure 9: Cross-section 3 geometry at the end of deposition

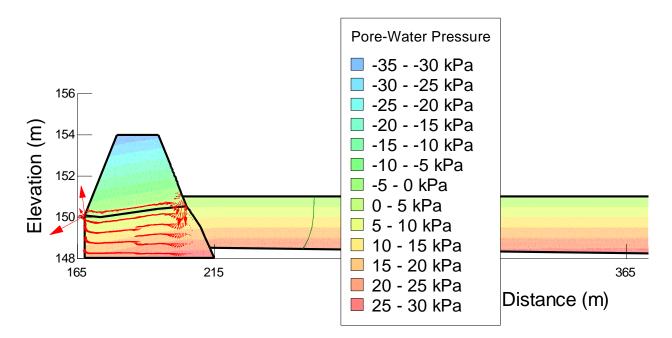


Figure 10: Steady-state pore-water pressure, flow paths and flow vectors for section 3 at end of 2019

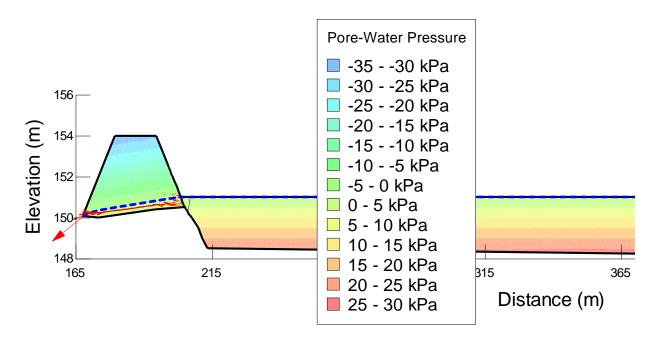


Figure 11: Steady-state pore-water pressure, flow paths and flow vectors for section 4 at end of 2019 when rockfill layer below tailings and dike not included

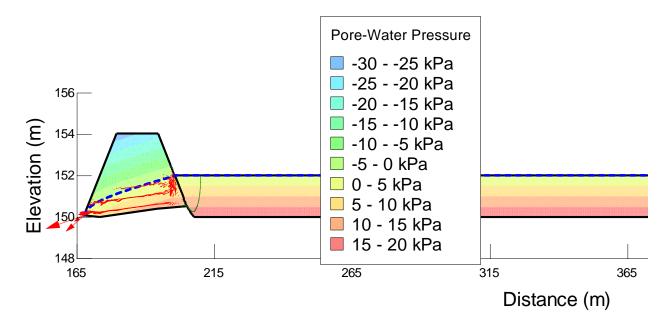


Figure 12: Steady-state pore-water pressure, flow paths and flow vectors for section 3 at end of 2020

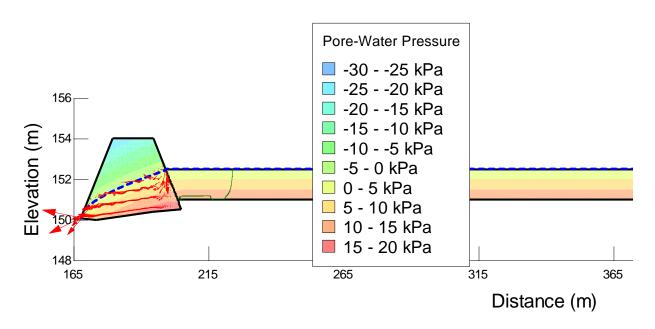


Figure 13: Steady-state pore-water pressure, flow paths and flow vectors for section 3 at end of 2021

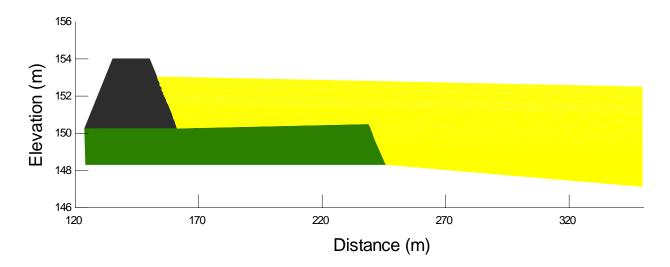


Figure 14: Cross-section 4 geometry at the end of deposition

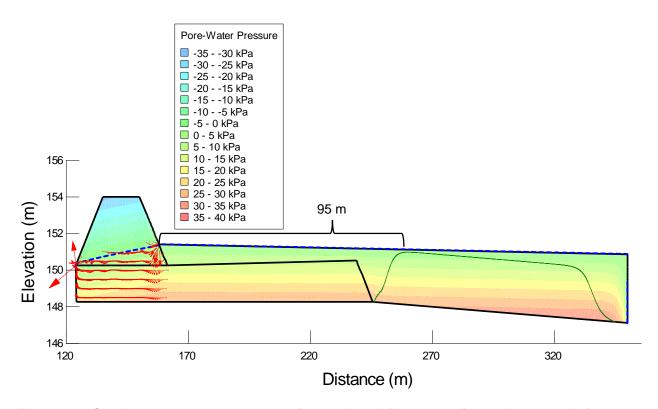


Figure 15: Steady-state pore-water pressure, flow paths and flow vectors for section 4 at end of 2019

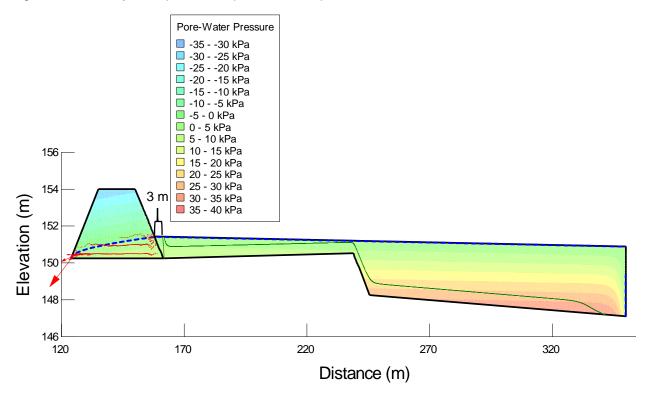


Figure 16: Steady-state pore-water pressure, flow paths and flow vectors for section 4 at end of 2019 when rockfill layer below tailings and dike not included.

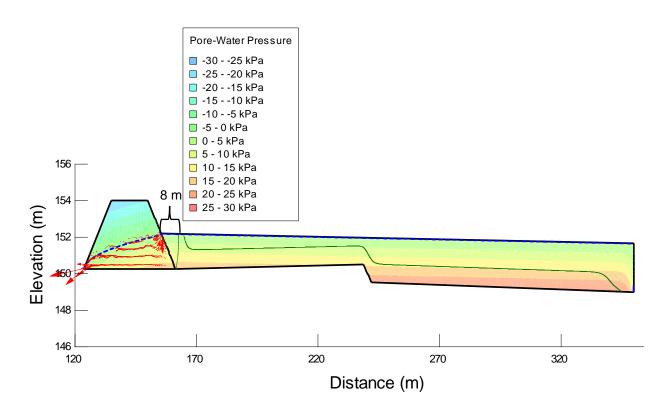


Figure 17: Steady-state pore-water pressure, flow paths and flow vectors for section 4 at end of 2020

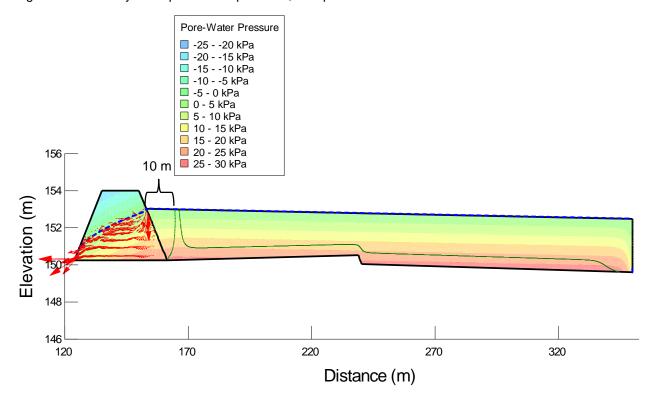


Figure 18: Steady-state pore-water pressure, flow paths and flow vectors for section 4 at end of 2021

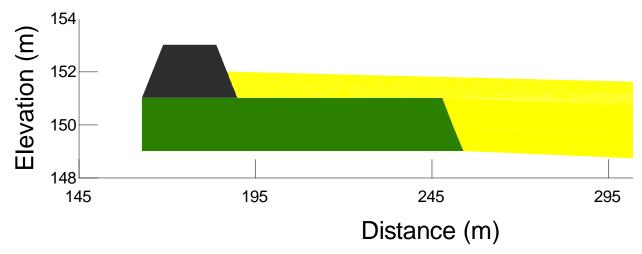


Figure 19: Cross-section 5 geometry at the end of deposition

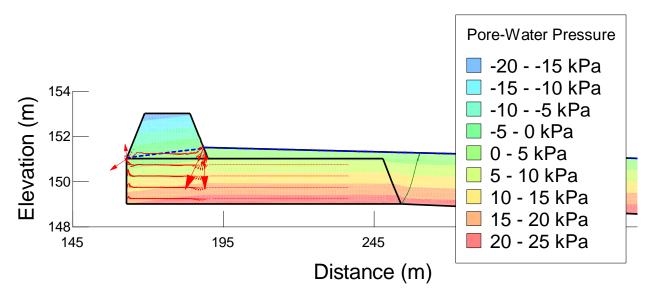


Figure 20: Steady-state pore-water pressure, flow paths and flow vectors for section 5 at end of 2020

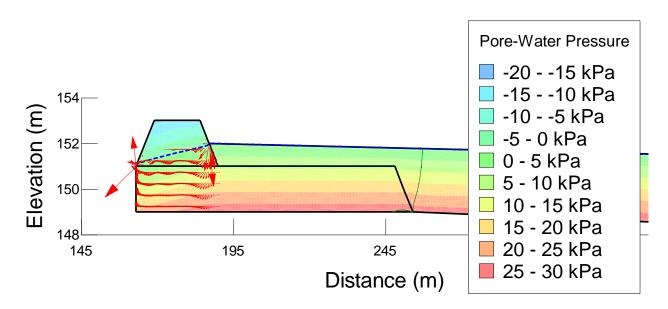


Figure 21: Steady-state pore-water pressure, flow paths and flow vectors for section 5 at end of 2021

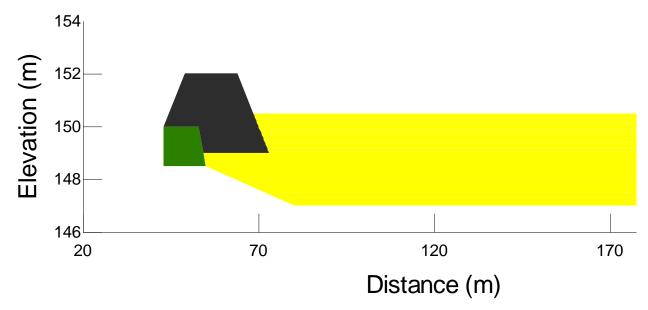


Figure 22: Cross-section 6 geometry at the end of deposition

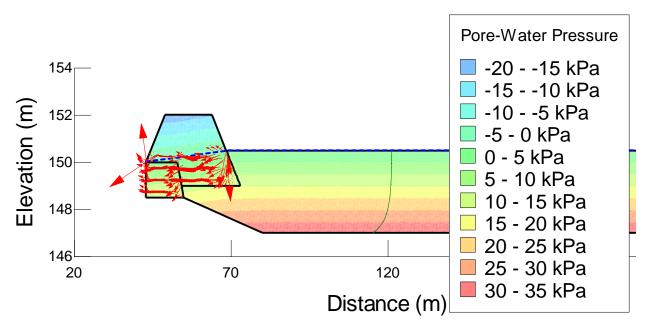


Figure 23: Steady-state pore-water pressure, flow paths and flow vectors for section 6 at end of 2021



Figure 24: Cross-section 7 geometry at the end of deposition

O'Kane Consultants March 17, 2016

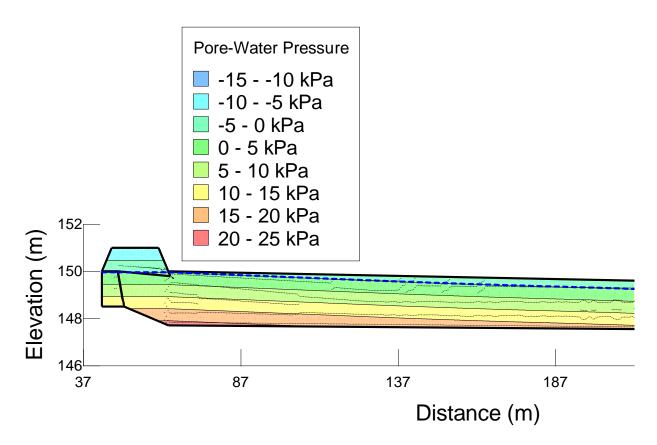


Figure 25: Cross-section 7 pore-water pressure, and flow vectors at end of 2021. No flow into the dike

O'Kane Consultants March 17, 2016



For further information contact:

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#### **APPENDIX C • WHALE TAIL PIT TAILINGS DEPOSITION PLAN**

















### Introduction

Following the revision of the Whale Tail Pit LOM, AEM reviewed the global tailings deposition plan required to store 8,279,144 tons of tailings in the Meadowbank TSF.

### **Parameters**

The model inputs are to one measured with the North Cell bathymetry analysis presented during the MDRB meeting #17:

- Sub aerial tailings slope set at 0.45%;
- Sub aqueous tailings slope set at 2.36%;

Tailings dry density & ice entrapment are presented on next slide.

### **Assumptions**

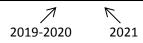
- Using Water <u>balance</u> <u>Whale Tail Pit LOM</u>
- Starting surfaces:
  - North Cell: October 2015 from "15 October 2015 NC backward analysis" (actual deposition)
  - South Cell: December 2017 from "13 Integrated deposition plan + August 2015" (actual budget)
- NC suction location for NC to SC transfers is mobile in time to match the pond's dynamic geometry;
- Maximum of 122days of deposition considered in the NC (summer period).

### **Model parameters**

AEM observed an higher tailings dry density than expected in the South Cell during winter 2014-2015. Following the analysis of the parameter completed this fall, adjustment on the tailings dry density in time was done. This new model represents the evolution of this parameter in function of the tailings pond configuration.

	North Cell Parameters 2019-2021		
Month	Ice	Tailings Dry	Ice
Wionen	Thickness	Density	entrapment
	(m)	(t/m³)	(%)
January	1.1	1.08	90%
February	1.3	1.08	90%
March	1.5	1.08	90%
Q1	1.5	1.08	90%
April	1.7	1.08	90%
May	0	1.32	60%
June	0	1.56	30%
Q2	0	1.32	60%
July	0	1.56	30%
August	0	1.56	30%
September	0	1.56	30%
Q3	0	1.56	30%
October	0.2	1.32	75%
November	0.5	1.08	80%
December	0.8	1.08	90%
Q4	0.8	1.16	82%
Average	-	1.28	65%

	South Cell Parameters 2019-2020 & 2021		
Month	Ice	Tailings Dry	Ice
WIOTILLI	Thickness	Density	entrapment
	(m)	(t/m³)	(%)
January	1.1	1.22 - 1.08	50% - 90%
February	1.3	1.22 - 1.08	50% - 90%
March	1.5	1.22 - 1.08	50% - 90%
Q1	1.5	1.22 - 1.08	50% - 90%
April	1.7	1.49 - 1.08	50% - 90%
May	0	1.49 - 1.32	40% - 60%
June	0	1.49 - 1.56	30%
Q2	0	1.49 - 1.32	40% - 60%
July	0	1.76 - 1.56	30%
August	0	1.76 - 1.56	30%
September	0	1.76 - 1.56	30%
Q3	0	1.76 - 1.56	30%
October	0.2	1.31 - 1.32	40% - 75%
November	0.5	1.31 - 1.08	50% - 80%
December	0.8	1.31 - 1.08	50% - 90%
Q4	0.8	1.31 - 1.16	47% - 82%
Average	-	1.44 - 1.28	42% - 65%



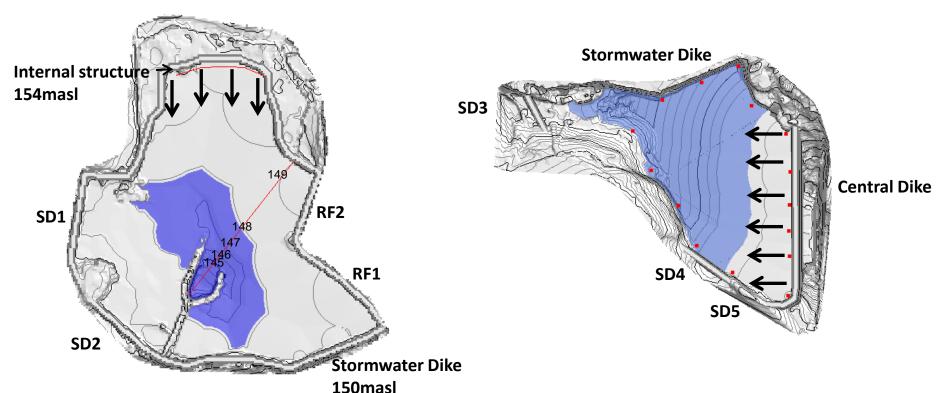
### **Deposition strategy**

### North Cell TSF

The figure below on the left depicts the geometry of the North Cell before resuming the deposition in June 2019. An incline internal structure will surround the North Cell TSF starting at elevation 154m at the north end of the cell and will decrease in elevation until reaching the SWD at elevation 150m. Most of the deposition will occurred from the north end identified by a red line on the picture below.

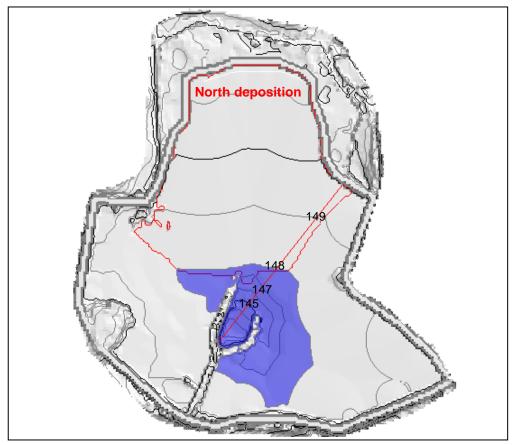
### **South Cell TSF**

The figure below on the right depicts the geometry of the North Cell before resuming the deposition in October 2019. All structure (Central Dike, SD3, 4 & 5 and Stormwater Dike) will be at elevation 150m. Most of the deposition will occurred from the Central Dike in order to reclaim water from the west end of the TSF.



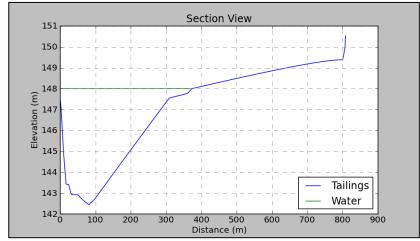
# South Cell TSF deposition plan 2019 Q3

Duration	<b>Deposition Point</b>	Tonnes	Elevation (m)
92	North	822,454	151.4



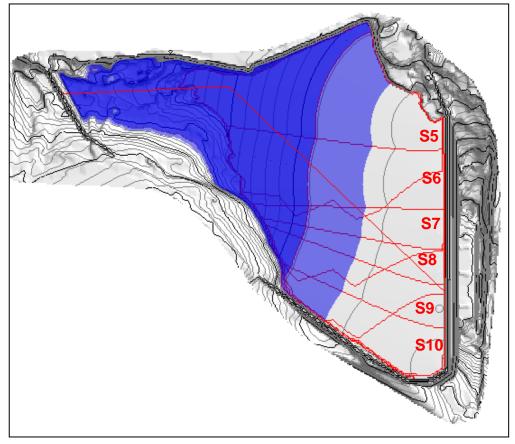
MODEL INPUT		
Pond Volume (m)	713,948	
Ice thickness (m)	0	
Tonnes (t)	821,250	

MODEL OUTPUT		
Total water volume (m³)	183,440	
Free water volume (m³)	183,440	
Ice volume (m³)	O	
Pond elevation (m)	148.000	
Free water elevation (m)	148.000	
Pond bottom elevation (m)	146.422	
Ice ratio (%)	0%	
Ice entrampment (%)	30%	
Transfer (m³)	530,508 (Monthly: 176,836)	



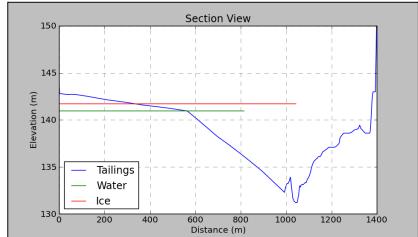
# South Cell TSF deposition plan 2019 Q4

Duration	<b>Deposition Point</b>	Tonnes	Elevation (m)
46	S5	413,398	142.578
19	S6	170,751	142.772
10	S7	89,869	142.773
8	S8	71,895	142.866
6	S9	53,921	143.053
3	S10	26,961	143.367



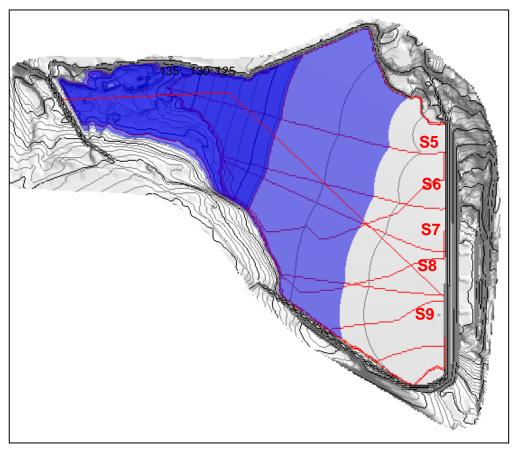
MODEL INPUT		
Pond Volume (m3)	715,998	
Ice thickness (m)	0.8	
Tonnes (t)	821,250	

MODEL OUTPUT		
Total water volume (m³)	955,072	
Free water volume (m³)	715,717	
Ice volume (m³)	239,355	
Pond elevation (m)	141.722	
Free water elevation (m)	140.964	
Pond bottom elevation (m)	131.036	
Ice ratio (%)	25%	
Ice entrampment (%)	47%	
Transfer (m³)	0	



## South Cell TSF deposition plan 2020 Q1

Duration	<b>Deposition Point</b>	Tonnes	Elevation (m)
50	S5	452,818	143.287
20	S6	181,127	143.568
10	S7	90,564	143.729
8	S8	72,451	143.945
3	S9	27,169	144.017



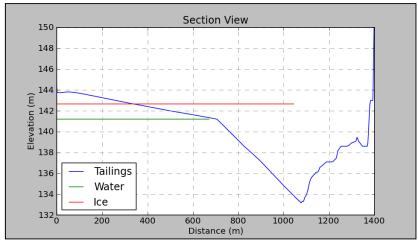
### **Operation risk – Effect of slurry channel**

Beach length: 624m

Tailings volume above water: 315,002m<sup>3</sup>

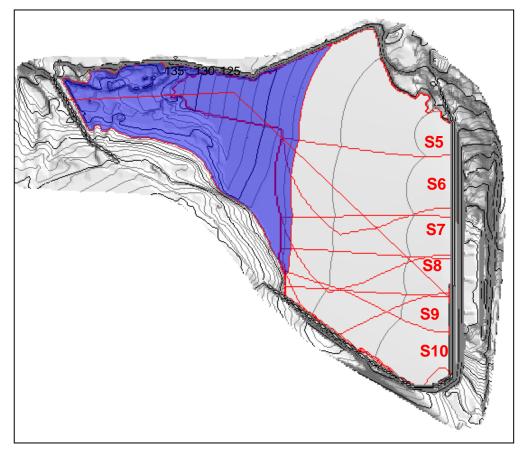
MODEL INPUT		
Pond Volume (m3)	420,922	
Ice thickness (m)	1.5	
Tonnes (t)	821,250	

MODEL OUTPUT		
Total water volume (m³)	829,879	
Free water volume (m³)	420,672	
Ice volume (m³)	409,207	
Pond elevation (m)	142.672	
Free water elevation (m)	141.205	
Pond bottom elevation (m)	132.982	
Ice ratio (%)	49%	
Ice entrampment (%)	50%	
Transfer (m³)	O	



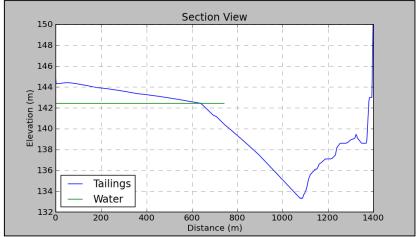
# **South Cell TSF deposition plan 2020 April-May**

Duration	<b>Deposition Point</b>	Tonnes	Elevation (m)
30	S5	271,577	144.328
12	S6	108,631	144.533
6	S7	54,315	144.505
5	S8	45,263	144.544
4	S9	36,210	144.579
4	S10	36,210	144.930



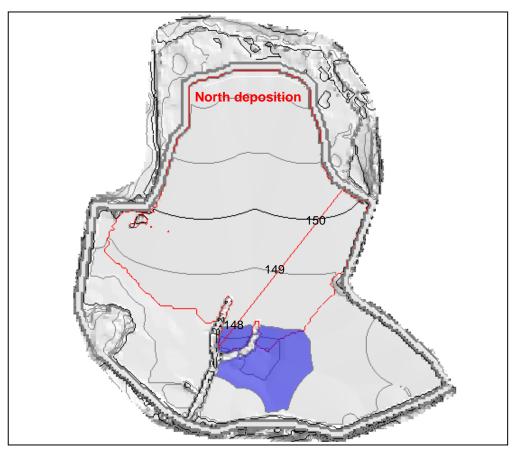
MODEL INPUT		
Pond Volume (m3)	638,376	
Ice thickness (m)	0	
Tonnes (t)	550,508	

MODEL OUTPUT		
Total water volume (m³)	637,638	
Free water volume (m³)	637,638	
Ice volume (m³)	0	
Pond elevation (m)	142.429	
Free water elevation (m)	142.429	
Pond bottom elevation (m)	133.156	
Ice ratio (%)	0%	
Ice entrampment (%)	45%	
Transfer (m³)	0	



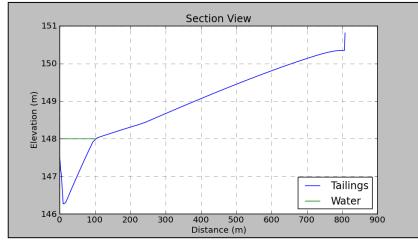
## South Cell TSF deposition plan 2020 June + Q3

Duration	<b>Deposition Point</b>	Tonnes	Elevation (m)
122	North	1,093,897	152.165



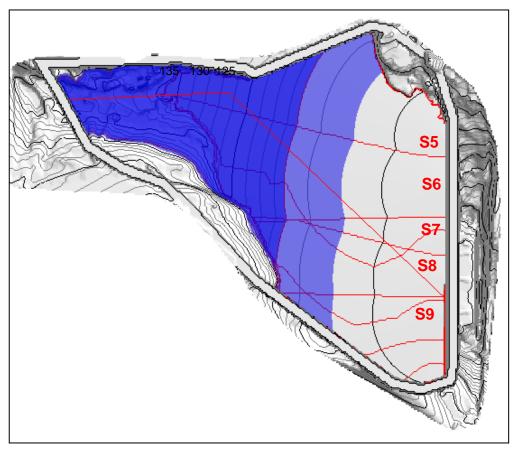
MODEL INPUT		
Pond Volume (m)	845,127	
Ice thickness (m)	О	
Tonnes (t)	1,091,992	

MODEL OUTPUT		
Total water volume (m³)	54,826	
Free water volume (m³)	54,826	
Ice volume (m³)	0	
Pond elevation (m)	148.000	
Free water elevation (m)	148.000	
Pond bottom elevation (m)	145.685	
Ice ratio (%)	0%	
Ice entrampment (%)	30%	
Transfer (m³)	790,301 (Monthly: 197,575)	



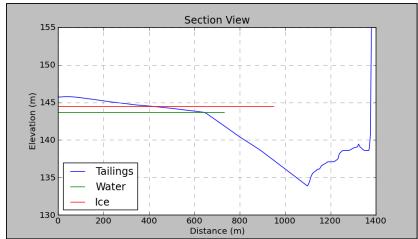
# South Cell TSF deposition plan 2020 Q4

Duration	<b>Deposition Point</b>	Tonnes	Elevation (m)
45	S5	402,069	145.67
26	S6	232,307	145.867
10	S7	89,349	145.845
8	S8	71,479	145,958
3	S9	26,805	145,969



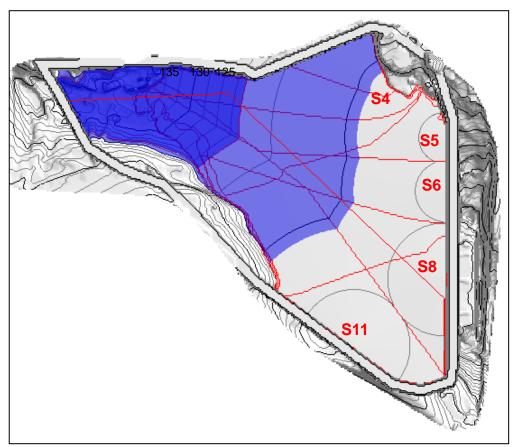
MODEL INPUT		
Pond Volume (m3)	981,347	
Ice thickness (m)	0.8	
Tonnes (t)	821,250	

MODEL OUTPUT		
Total water volume (m³)	981,347	
Free water volume (m³)	757,719	
Ice volume (m³)	223,628	
Pond elevation (m)	144,454	
Free water elevation (m)	143,671	
Pond bottom elevation (m)	133,875	
Ice ratio (%)	23%	
Ice entrampment (%)	47%	
Transfer (m³)	0	



## South Cell TSF deposition plan 2021 Q1

Duration	<b>Deposition Point</b>	Tonnes	Elevation (m)
33	S4	294,584	145.446
23	S6	205,316	146.411
15	S8	133,902	146.762
15	S11	133,902	146.760
5	S5	44,634	146.341



### Operation risk – Effect of slurry channel

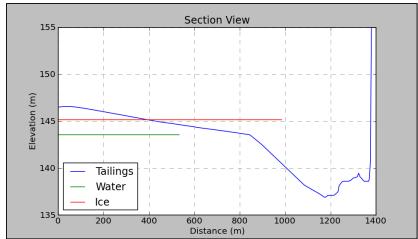
Beach length: 500m

Tailings volume above water: 384,741m³

Tailings volume may fill up the reclaim pond.

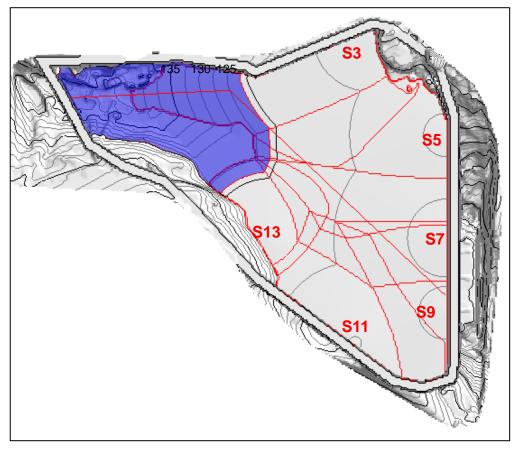
MODEL INPUT		
Pond Volume (m3)	707,990	
Ice thickness (m)	1.5	
Tonnes (t)	810,000	

MODEL OUTPUT		
Total water volume (m³)	707,990	
Free water volume (m³)	368,743	
Ice volume (m³)	339,247	
Pond elevation (m)	145.165	
Free water elevation (m)	143.557	
Pond bottom elevation (m)	136.852	
Ice ratio (%)	48%	
Ice entrampment (%)	90%	
Transfer (m³)	0	



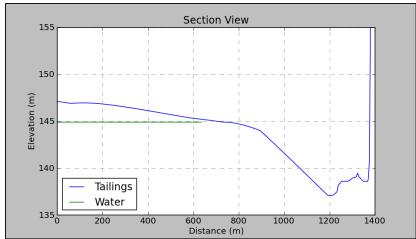
# South Cell TSF deposition plan 2021 April-May

Duration	<b>Deposition Point</b>	Tonnes	Elevation (m)
23	S3	207,921	146.756
5	S13	45,200	145.853
15	S5	135,601	147.291
5	S11	45,200	147.087
5	S9	45,200	147.355
8	S7	72,320	147.527



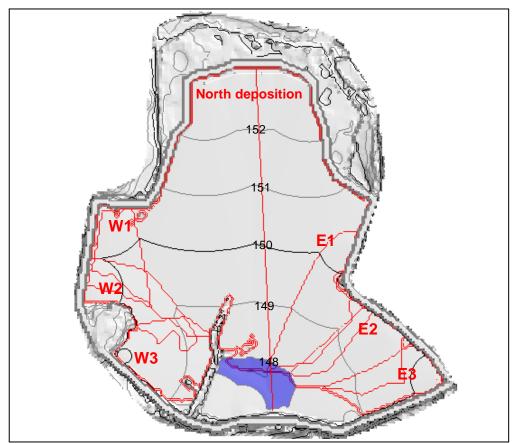
MODEL INPUT		
Pond Volume (m3)	504,484	
Ice thickness (m)	0	
Tonnes (t)	549,000	

MODEL OUTPUT	
Total water volume (m³)	502,913
Free water volume (m³)	502,913
Ice volume (m³)	0
Pond elevation (m)	144.907
Free water elevation (m)	144.907
Pond bottom elevation (m)	137.108
Ice ratio (%)	0%
Ice entrampment (%)	75%
Transfer (m³)	0



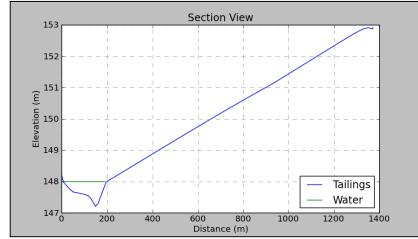
## South Cell TSF deposition plan 2021 June + Q3

Duration	<b>Deposition Point</b>	Tonnes	Elevation (m)
92	North	829,230	153.02
5	W1	45,067	150.834
5	W2	45,067	150.562
5	W3	45,067	150.132
5	E1	45,067	150.556
5	E2	45,067	150.447
5	E3	45,067	149.915



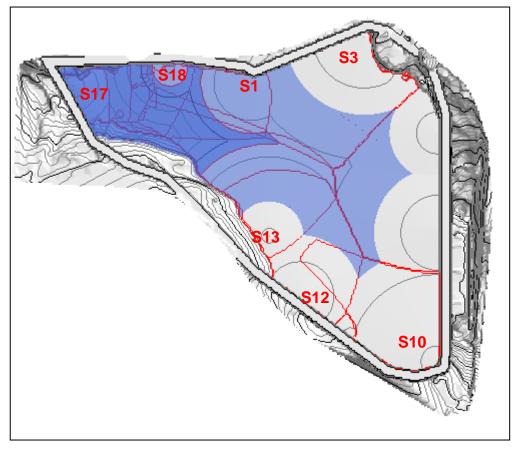
MODEL INPUT	
Pond Volume (m) 731	
Ice thickness (m)	0
Tonnes (t)	1,098,000

MODEL OUTPUT	
Total water volume (m³)	12,735
Free water volume (m³)	12,735
Ice volume (m³)	0
Pond elevation (m)	148.000
Free water elevation (m)	148.000
Pond bottom elevation (m)	146.992
Ice ratio (%)	0%
Ice entrampment (%)	30%
Transfer (m³)	718,823



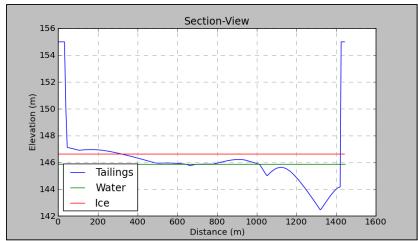
# South Cell TSF deposition plan 2021 Q4

Duration	<b>Deposition Point</b>	Tonnes	Elevation (m)
5	S10	45,041	147.612
13	S17	117,106	147.805
11	S12	99,090	147.900
12	S13	108,098	147.676
18	S3	162,147	147.122
18	S1	162,147	147.738
15	S18	135,122	146.509



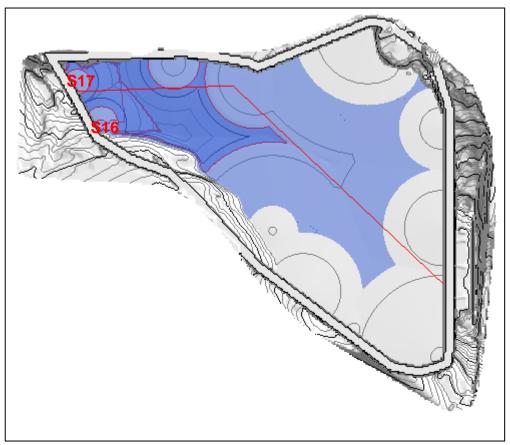
MODEL INPUT		
Pond Volume (m3)	375,815	
Ice thickness (m)	0.80	
Tonnes (t)	828,000	

MODEL OUTPUT	
Total water volume (m³)	375,815
Free water volume (m³)	229,436
Ice volume (m³)	146,379
Pond elevation (m)	146.529
Free water elevation (m)	145.729
Pond bottom elevation (m)	138.981
Ice ratio (%)	39%
Ice entrampment (%)	82%
Transfer (m³)	0



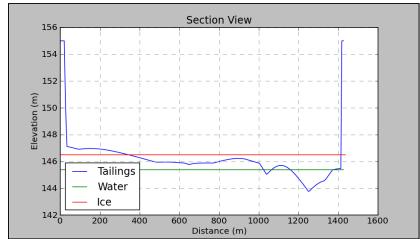
### **South Cell TSF deposition plan 2022 January**

Duration	<b>Deposition Point</b>	Tonnes	Elevation (m)
15	S17	32,619	145.81
16	S16	34,793	147.76



MODEL INPUT		
Pond Volume (m3)	337,197	
Ice thickness (m)	1.10	
Tonnes (t)	66,644	

MODEL OUTPUT		
Total water volume (m³)	337,197	
Free water volume (m³)	103,979	
Ice volume (m³)	233,218	
Pond elevation (m)	146.702	
Free water elevation (m)	145.600	
Pond bottom elevation (m)	142.408	
Ice ratio (%)	69%	
Ice entrampment (%)	90%	
Transfer (m³)	0	



### Results

### **Tonnage profile**

Table below summarizes the tonnage store in each cells in time.

Time	North Cell (t)	South Cell (t)	Total (t)
2019	821,250	821,250	1,642,500
2020	1,091,992	2,193,008	3,285,000
2021	1,098,000	2,187,000	3,285,000
2022	0	66,644	66,644
Total	3,011,242	5,267,902	8,279,144

### **Remaining capacity**

Assuming a tailings dry density of 1.28 t/m³, the South Cell still have a capacity of 1,9Mt. AEM consider that the North Cell is full as the final surface is ideal to minimize capping requirement for closure of the tailings pond.

Dikes elevation	Remaining capacity
North Cell (154m)	0 t
South Cell (150m)	1,900,376 t

No contingency is applied on the remaining capacity presented is this table.

### **Analysis**

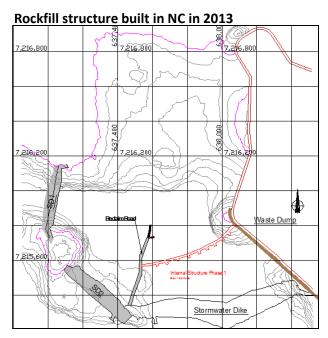
### **Operational risk**

Deposition in the South Cell will only be performed during winter time as the operation of the North Cell Internal Structure concept requires summer deposition. Base on field observation, slurry discharge over frozen tailings beach habitually channel through the tailings pond instead of beaching in front of the dike. Tons discharged above reclaim water elevation may lead to the bottom of the pond and compromise reclaim water availability in the mill as observed during the winter 2013 in Meadowbank. This event caused a reduction of the storage capacity and compromise mill operation. The 2021-Q1 will be the most critical month.

### Mitigation

AEM developed an in-house expertise in tailings deposition modeling to forecast these kind of events. To solve this problem in 2013, AEM built rockfill structures inside the tailings pond to prevent the slurry to reach the reclaim water pumping system and higher freshwater consumption was required to operate the mill.

















Trading Symbol: AEM on TSX & NYSE

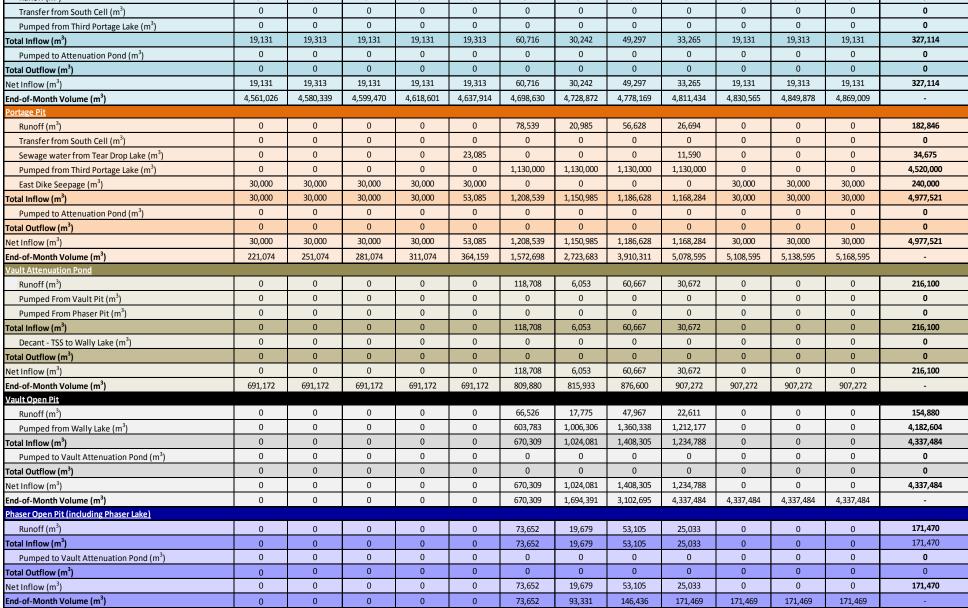
Investor Relations: 416-847-8665 info@agnicoeagle.com

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#### **APPENDIX D • MEADOWBANK MINE WATER BALANCE**

WHALE TAIL PIT							MIN	IE WASTE	ROCK A	ND TAILIN	NGS MAN	IAGEMEN	T PLAN
						Voo	r 2019						
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ANNUAL TOTAL
No. of days	31	28	31	30	31	30	31	31	30	31	30	31	365
Tailings (tonnes):	0	0	0	0	0	0	276,726	276,726	267,799	276,726	267,799	276,726	1,642,500
Cummulative Tailings (tonnes):	27,874,532	27,874,532	27,874,532	27,874,532	27,874,532	27,874,532	28,151,257	28,427,983	28,695,782	28,972,507	29,240,306	29,517,032	-
Cummulative Tailings (m3) - North Cell	14,248,693	14,248,693	14,248,693	14,248,693	14,248,693	14,248,693	14,426,082	14,603,470	14,775,136	14,775,136	14,775,136	14,775,136	-
Cummulative Tailings (m3) - South Cell	9,556,106	9,556,106	9,556,106	9,556,106	9,556,106	9,556,106	9,556,106	9,556,106	9,556,106	9,767,346	9,971,773	10,183,014	-
North Cell (TSF)	<u> </u>	•		1									
Starting Pond Volume (m³)	0	196,038	196,038	196,038	196,038	196,038	196,038	194,183	191,708	183,440	158,440	158,440	-
Water from tailings slurry (m³)	0	0	0	0	0	0	174,981	174,361	168,568	0	0	0	517,911
Runoff (m³)	0	0	0	0	0	76,665	7,700	42,862	21,238	-13	0	0	148,451
Total Inflow (m³)	0	0	0	0	0	76,665	182,681	217,223	189,806	-13	0	0	666,361
Transfer to South Cell (m³)	0	0	0	0	0	76,665	184,536	219,698	198,074	24,987	0	0	703,959
Reclaim water to the mill (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Outflow (m³)	0	0	0	0	0	76,665	184,536	219,698	198,074	24,987	0	0	703,959
Net Inflow (m³)	0	0	0	0	0	0	-1,855	-2,475	-8,268	-25,000	0	0	-37,597
End-of-Month Volume (m³)	196,038	196,038	196,038	196,038	196,038	196,038	194,183	191,708	183,440	158,440	158,440	158,440	-
South Cell (TSF)	190,038	190,036	130,036	130,038	130,036	190,036	194,103	131,708	163,440	138,440	130,440	138,440	-
	0	0	0	0	0	0	0	0	0	0	0	0	0
Pumped From Portage Pit (m³)	0	0	0	0	0	40,982	-10,260	8,951	5,933	-22	0	0	45,584
Runoff (m³)						-	<del> </del>						,
Transfer from North Cell (m³)	0	0	0	0	0	76,665	184,536	219,698	198,074	24,987	0	0	703,959
Water from tailings slurry (m <sup>3</sup> )	0	0	0	0	0	0	0	0	0	149,469	120,178	124,475	394,122
Total Inflow (m <sup>3</sup> )	0	0	0	0	0	117,646	174,276	228,648	204,007	174,434	120,178	124,475	1,143,664
Reclaim water to the mill (m <sup>3</sup> )	0	0	0	0	0	0	212,121	212,121	205,278	212,121	205,278	167,481	1,214,399
Transfer to Portage Pit (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Outflow (m³)	0	0	0	0	0	0	212,121	212,121	205,278	212,121	205,278	167,481	1,214,399
Net Inflow (m <sup>3</sup> )	0	0	0	0	0	117,646	-37,845	16,527	-1,271	-37,687	-85,100	-43,006	-70,735
End-of-Month Volume (m <sup>3</sup> )	1,034,718	1,034,718	1,034,718	1,034,718	1,034,718	1,152,364	1,114,519	1,131,046	1,129,775	1,092,089	1,006,989	963,982	
Mill/Camp							<u> </u>				<u> </u>		
Ore water (m <sup>3</sup> )	0	0	0	0	0	0	3,597	2,712	2,383	2,740	1,928	2,574	15,934
Reclaim water (m³)	0	0	0	0	0	0	212,121	212,121	205,278	212,121	205,278	167,481	1,214,399
Freshwater from Third Portage Lake (m³)	2,945	2,660	2,945	2,850	2,945	2,850	37,200	37,200	36,000	37,200	36,000	81,840	282,635
Total Inflow (m³)	2,945	2,660	2,945	2,850	2,945	2,850	252,918	252,033	243,662	252,060	243,206	251,894	1,512,968
	2,945		2,945	2,850	2,945	2,850	2,945	2,945	2,850	2,945	2,850	2,945	34,675
Freshwater for camp purposes (m <sup>3</sup> )		2,660		1			<u> </u>			-			-
Slurry water (m³)	0	0	0	0	0	0	249,973	249,088	240,812	249,115	240,356	248,949	1,478,293
Total Outflow (m³)	2,945	2,660	2,945	2,850	2,945	2,850	252,918	252,033	243,662	252,060	243,206	251,894	1,512,968
Net Inflow (m <sup>3</sup> )	0	0	0	0	0	0	0	0	0	0	0	0	0
Reclaim water pumping rate (m³/hr)	0	0	0	0	0	0	285	285	285	285	285	225	-
Freshwater pumping rate (m³/hr)	4	4	4	4	4	4	50	50	50	50	50	110	-
<u>TSF Water Balance</u>													
Slurry water (m³)	0	0	0	0	0	0	249,973	249,088	240,812	249,115	240,356	248,949	1,478,293
Tonnage destination (1=100% SC, 0=100% NC)	1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.000	0.000	1.000	1.000	1.000	
NC Tailings water/ice entrampment (%)	90%	90%	90%	90%	60%	30%	30%	30%	30%	75%	80%	90%	
SC Tailings water/ice entrampment (%)	50%	50%	50%	50%	40%	30%	30%	30%	30%	40%	50%	50%	
Slurry water returned to the NC pond (m <sup>3</sup> )	0	0	0	0	0	0	174,981	174,361	168,568	0	0	0	517,911
Slurry water returned to the SC pond (m <sup>3</sup> )	0	0	0	0	0	0	0	0	0	149,469	120,178	124,475	394,122
		1	1		1		r 2019		1	1			ANNUAL TOTAL
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
No. of days	31	28	31	30	31	30	31	31	30	31	30	31	365
Goose Pit (ATP)	40.45	40.00	40.45	40.45	40.00	C2 = 1 =	20.0:-	40.05=	00.00	40.45	40.04	40.45	
Runoff (m <sup>3</sup> )	19,131	19,313	19,131	19,131	19,313	60,716	30,242	49,297	33,265	19,131	19,313	19,131	327,114
Transfer from South Cell (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Pumped from Third Portage Lake (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Inflow (m³)	19,131	19,313	19,131	19,131	19,313	60,716	30,242	49,297	33,265	19,131	19,313	19,131	327,114
Pumped to Attenuation Pond (m <sup>3</sup> )	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Outflow (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Net Inflow (m <sup>3</sup> )	19,131	19,313	19,131	19,131	19,313	60,716	30,242	49,297	33,265	19,131	19,313	19,131	327,114
End-of-Month Volume (m³)	4,561,026	4,580,339	4,599,470	4,618,601	4,637,914	4,698,630	4,728,872	4,778,169	4,811,434	4,830,565	4,849,878	4,869,009	-
Portage Pit													
Runoff (m <sup>3</sup> )	0	0	0	0	0	78,539	20,985	56,628	26,694	0	0	0	182,846
Transfer from South Cell (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Sewage water from Tear Drop Lake (m <sup>3</sup> )	0	0	0	0	23,085	0	0	0	11,590	0	0	0	34,675
Pumped from Third Portage Lake (m³)	0	0	0	0	0	1,130,000	1,130,000	1,130,000	1,130,000	0	0	0	4,520,000
	_		30,000	1		0	0	0	0		30,000	30,000	
East Dike Seepage (m³)	30,000	30,000		30,000	30,000					30,000	-	_	240,000
Total Inflow (m³)	30,000	30,000	30,000	30,000	53,085	1,208,539	1,150,985	1,186,628	1,168,284	30,000	30,000	30,000	4,977,521
Pumped to Attenuation Pond (m <sup>3</sup> )	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Outflow (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Net Inflow (m³)	30,000	30,000	30,000	30,000	53,085	1,208,539	1,150,985	1,186,628	1,168,284	30,000	30,000	30,000	4,977,521



JUNE 2016 D1 AGNICO EAGLE

		•				Yea	r 2020						ANNULAL TOTAL
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ANNUAL TOTAL
No. of days	31	29	31	30	31	30	31	31	30	31	30	31	366
Tailings (tonnes):	279,766	261,717	279,766	270,742	279,766	270,742	276,726	276,726	267,799	276,726	267,799	276,726	3,285,000
Cummulative Tailings (tonnes):	29,796,798	30,058,515	30,338,282	30,609,024	30,888,790	31,159,532	31,436,257	31,712,983	31,980,782	32,257,507	32,525,306	32,802,032	-
Cummulative Tailings (m3) - North Cell	14,775,136	14,775,136	14,775,136	14,775,136	14,775,136	14,948,688	15,126,076	15,303,465	15,475,130	15,475,130	15,475,130	15,475,130	-
Cummulative Tailings (m3) - South Cell	10,412,331	10,626,853	10,856,170	11,037,876	11,225,638	11,225,638	11,225,638	11,225,638	11,225,638	11,436,879	11,641,306	11,852,547	-
North Cell (TSF)	1	<u> </u>	I	<u> </u>									
Starting Pond Volume (m³)	158,440	158,440	158,440	158,440	158,440	158,440	129,641	107,048	83,834	54,827	44,827	44,827	-
Water from tailings slurry (m³)	0	0	0	0	0	168,776	174,981	174,361	168,568	0	0	0	686,686
Runoff (m³)	0	0	0	0	0	76,665	7,700	42,862	21,238	-13	0	0	148,451
Total Inflow (m³)	0	0	0	0	0	245,440	182,681	217,223	189,806	-13	0	0	835,137
Transfer to South Cell (m³)	0	0	0	0	0	274,240	205,275	240,437	218,813	9,987	0	0	948,751
Reclaim water to the mill (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Outflow (m³)	0	0	0	0	0	274,240	205,275	240,437	218,813	9,987	0	0	948,751
Net Inflow (m³)	0	0	0	0	0	-28,799	-22,594	-23,214	-29,007	-10,000	0	0	-113,614
End-of-Month Volume (m³)	158,440	158,440	158,440	158,440	158,440	129,641	107,048	83,834	54,827	44,827	44,827	44,827	-
South Cell (TSF)													
Pumped From Portage Pit (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Runoff (m <sup>3</sup> )	0	0	0	0	0	40,982	-10,260	8,951	5,933	-22	0	0	45,584
Transfer from North Cell (m³)	0	0	0	0	0	274,240	205,275	240,437	218,813	9,987	0	0	948,751
Water from tailings slurry (m³)	124,559	117,242	124,643	120,690	149,638	0	0	0	0	149,469	120,178	124,475	1,030,894
Total Inflow (m <sup>3</sup> )	124,559	117,242	124,643	120,690	149,638	315,221	195,015	249,387	224,746	159,434	120,178	124,475	2,025,228
Reclaim water to the mill (m³)	167,481	156,675	167,481	162,078	212,121	205,278	212,121	212,121	205,278	100,521	97,278	100,521	1,998,953
Transfer to Portage Pit (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Outflow (m³)	167,481	156,675	167,481	162,078	212,121	205,278	212,121	212,121	205,278	100,521	97,278	100,521	1,998,953
Net Inflow (m³)	-42,922	-39,433	-42,838	-41,389	-62,482	109,943	-17,106	37,266	19,468	58,913	22,900	23,954	26,275
End-of-Month Volume (m³)	921,060	881,627	838,789	797,401	734,918	844,861	827,756	865,022	884,490	943.403	966,303	990,257	-
Mill/Camp	022,000	000,000	555). 55	10.7.02	,	011,000	52.7.55	555,522	55 1, 155	0 10, 100	000,000	555,251	
Ore water (m³)	2,742	4,004	2,910	2,951	3,021	2,680	3,597	2,712	2,383	2,740	1,928	2,574	34,242
Reclaim water (m³)	167,481	156,675	167,481	162,078	212,121	205,278	212,121	212,121	205,278	100,521	97,278	100,521	1,998,953
Freshwater from Third Portage Lake (m³)	81,840	76,560	81,840	79,200	37,200	36,000	37,200	37,200	36,000	148,800	144,000	148,800	944,640
Total Inflow (m³)	252,062	237,240	252,230	244.229	252,342	243,958	252,918	252,033	243,662	252,060	243,206	251,894	2,977,835
Freshwater for camp purposes (m <sup>3</sup> )	2,945	2,755	2,945	2,850	2,945	2,850	2,945	2,945	2,850	2,945	2,850	2,945	34,770
Slurry water (m <sup>3</sup> )	249,117	234,485	249,285	241,379	249,397	241,108	249,973	249,088	240,812	249,115	240,356	248.949	2,943,065
Total Outflow (m³)	252,062	237,240	252,230	244,229	252,342	243,958	252,918	252,033	243,662	252,060	243,206	251,894	2,977,835
Net Inflow (m <sup>3</sup> )	0	0	0	0	0	0	0	0	0	0	0	0	0
Reclaim water pumping rate (m <sup>3</sup> /hr)	225	225	225	225	285	285	285	285	285	135	135	135	-
Freshwater pumping rate (m /nr)	110	110	110	110	50	50	50	50	50	200	200	200	
TSF Water Balance	110	110	110	110	30	30	30	30	30	200	200	200	_
	249,117	234,485	249,285	241,379	249,397	241,108	249,973	249,088	240,812	249,115	240,356	248,949	2,943,065
Slurry water (m³) Tonnage destination (1=100% SC, 0=100% NC)	1.000	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	1.000	1.000	1.000	2,543,005
NC Tailings water/ice entrampment (%)	90%	90%	90%	90%	60%	30%	30%	30%	30%	75%	80%	90%	
SC Tailings water/ice entrampment (%)	50%	50%	50%	50%	40%	30%	30%	30%	30%	40%	50%	50%	
Slurry water returned to the NC pond (m³)	0	0	0	0	0	168,776	174,981	174,361	168,568	0	0	0	686,686
Slurry water returned to the SC pond (m²)	124.559	117.242	124.643	120.690	149.638	0	0	0	0	149.469	120.178	124.475	1.030.894
starry mater retained to the 50 point (iii )	124,555	117,272	12-7,0-13	120,000	175,050					175,705	120,170	124,473	1,000,004

						Yea	r 2020						
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ANNUAL TOTAL
No. of days	31	28	31	30	31	30	31	31	30	31	30	31	365
Goose Pit (ATP)													
Runoff (m <sup>3</sup> )	19,131	19,313	19,131	19,131	19,313	60,716	30,242	49,297	33,265	19,131	19,313	19,131	327,114
Transfer from South Cell (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Pumped from Third Portage Lake (m <sup>3</sup> )	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Inflow (m³)	19,131	19,313	19,131	19,131	19,313	60,716	30,242	49,297	33,265	19,131	19,313	19,131	327,114
Pumped to Attenuation Pond (m <sup>3</sup> )	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Outflow (m <sup>3</sup> )	0	0	0	0	0	0	0	0	0	0	0	0	0
Net Inflow (m <sup>3</sup> )	19,131	19,313	19,131	19,131	19,313	60,716	30,242	49,297	33,265	19,131	19,313	19,131	327,114
End-of-Month Volume (m <sup>3</sup> )	4,888,140	4,907,453	4,926,584	4,945,715	4,965,028	5,025,744	5,055,986	5,105,283	5,138,548	5,157,679	5,176,992	5,196,123	-
Portage Pit				<u> </u>	<u> </u>								
Runoff (m³)	0	0	0	0	0	78,539	20,985	56,628	26,694	0	0	0	182,846
Transfer from South Cell (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Sewage water from Tear Drop Lake (m³)	0	0	0	0	23,085	0	0	0	11,590	0	0	0	34,675
Pumped from Third Portage Lake (m <sup>3</sup> )	0	0	0	0	0	1,130,000	1,130,000	1,130,000	1,130,000	0	0	0	4,520,000
East Dike Seepage (m³)	30,000	30,000	30,000	30,000	30,000	0	0	0	0	30,000	30,000	30,000	240,000
Total Inflow (m³)	30,000	30,000	30,000	30,000	53,085	1,208,539	1,150,985	1,186,628	1,168,284	30,000	30,000	30,000	4,977,521
Pumped to Attenuation Pond (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Outflow (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Net Inflow (m³)	30,000	30,000	30,000	30,000	53,085	1,208,539	1,150,985	1,186,628	1,168,284	30,000	30,000	30,000	4,977,521
End-of-Month Volume (m³)	5,198,595	5,228,595	5,258,595	5,288,595	5,341,680	6,550,218	7,701,203	8,887,831	10,056,115	10,086,115	10,116,115	10,146,115	-
Vault Attenuation Pond	3,130,333	3,223,333	3,230,333	3,200,333	5/5 12/000	0,550,210	7,701,200	0,007,001	10,030,113	10,000,113	10,110,113	10)110)113	
Vadit Attendation Fond													
Runoff (m <sup>3</sup> )	0	0	0	0	0	183,978	23,105	107,352	52,710	0	0	0	367,144
Runoff (m³)  Pumped From Vault Pit (m³)	0	0	0	0	0	183,978 0	23,105	107,352 0	52,710 0	0	0	0	367,144 0
Pumped From Vault Pit (m³)	0	0	0	0	0	0	0	0	-	0	0		-
Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Total Inflow (m³)	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 183,978	0 0 23,105	0 0 107,352	0 0 52,710	0 0 0	0 0 0	0 0 0	0 0 367,144
Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 183,978 0	0 0 23,105	0 0 107,352	0 0 52,710 0	0 0 0	0 0 0	0 0 0	0 0 367,144 0
Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)	0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 183,978 0	0 0 23,105 0	0 0 107,352 0	0 0 52,710 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 367,144 0
Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)	0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0 0	0 0 183,978 0 0 183,978	0 0 23,105 0 0 23,105	0 0 107,352 0 0 107,352	0 0 52,710 0 0 52,710	0 0 0 0	0 0 0 0	0 0 0 0 0	0 0 367,144 0
Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)	0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 183,978 0	0 0 23,105 0	0 0 107,352 0	0 0 52,710 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 367,144 0
Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Open Pit	0 0 0 0 0 0 0 0 907,272	0 0 0 0 0 0 0 0 907,272	0 0 0 0 0 0 0 0 907,272	0 0 0 0 0 0 0 907,272	0 0 0 0 0 0 0 907,272	0 0 183,978 0 0 183,978 1,091,249	0 0 23,105 0 0 23,105 1,114,354	0 0 107,352 0 0 107,352 1,221,706	0 0 52,710 0 0 52,710 1,274,416	0 0 0 0 0 0 0 1,274,416	0 0 0 0 0 0 0 1,274,416	0 0 0 0 0	0 0 367,144 0 0 367,144
Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Open Pit  Runoff (m³)	0 0 0 0 0 0 0 0 907,272	0 0 0 0 0 0 0 907,272	0 0 0 0 0 0 0 907,272	0 0 0 0 0 0 0 0 907,272	0 0 0 0 0 0 0 907,272	0 0 183,978 0 0 183,978 1,091,249	0 0 23,105 0 0 23,105 1,114,354	0 0 107,352 0 0 107,352 1,221,706	0 0 52,710 0 0 52,710 1,274,416	0 0 0 0 0 0 0 1,274,416	0 0 0 0 0 0 0 1,274,416	0 0 0 0 0 0 0 1,274,416	0 0 367,144 0 0 367,144 -
Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Open Pit  Runoff (m³)  Pumped from Wally Lake (m³)	0 0 0 0 0 0 0 907,272	0 0 0 0 0 0 0 907,272	0 0 0 0 0 0 0 907,272	0 0 0 0 0 0 0 907,272	0 0 0 0 0 0 0 907,272	0 0 183,978 0 0 183,978 1,091,249 66,526 603,783	0 0 23,105 0 0 23,105 1,114,354 17,775 1,006,306	0 0 107,352 0 0 107,352 1,221,706 47,967 1,360,338	0 0 52,710 0 0 52,710 1,274,416 22,611 1,212,177	0 0 0 0 0 0 0 1,274,416	0 0 0 0 0 0 0 1,274,416	0 0 0 0 0 0 0 1,274,416	0 0 367,144 0 0 367,144 - 154,880 4,182,604
Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Open Pit  Runoff (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)	0 0 0 0 0 0 907,272	0 0 0 0 0 0 907,272	0 0 0 0 0 0 907,272	0 0 0 0 0 0 907,272	0 0 0 0 0 0 0 907,272	0 0 183,978 0 0 183,978 1,091,249 66,526 603,783 670,309	0 0 23,105 0 0 23,105 1,114,354 17,775 1,006,306 1,024,081	0 0 107,352 0 0 107,352 1,221,706 47,967 1,360,338 1,408,305	0 0 52,710 0 0 52,710 1,274,416 22,611 1,212,177 1,234,788	0 0 0 0 0 0 1,274,416	0 0 0 0 0 0 1,274,416	0 0 0 0 0 0 1,274,416	0 0 367,144 0 0 367,144 - 154,880 4,182,604 4,337,484
Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Open Pit  Runoff (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)	0 0 0 0 0 0 907,272	0 0 0 0 0 0 907,272	0 0 0 0 0 0 907,272	0 0 0 0 0 0 907,272	0 0 0 0 0 0 0 907,272	0 0 183,978 0 0 183,978 1,091,249 66,526 603,783 670,309 0	0 0 23,105 0 0 23,105 1,114,354 17,775 1,006,306 1,024,081 0	0 0 107,352 0 0 107,352 1,221,706 47,967 1,360,338 1,408,305 0	0 0 52,710 0 52,710 1,274,416 22,611 1,212,177 1,234,788 0	0 0 0 0 0 0 1,274,416	0 0 0 0 0 0 1,274,416	0 0 0 0 0 0 1,274,416	0 0 367,144 0 0 367,144 - 154,880 4,182,604 4,337,484 0
Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Open Pit  Runoff (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)	0 0 0 0 0 0 907,272	0 0 0 0 0 0 907,272	0 0 0 0 0 0 907,272	0 0 0 0 0 0 907,272	0 0 0 0 0 0 907,272	0 0 183,978 0 0 183,978 1,091,249 66,526 603,783 670,309 0	0 0 23,105 0 23,105 1,114,354 17,775 1,006,306 1,024,081 0	0 0 107,352 0 0 107,352 1,221,706 47,967 1,360,338 1,408,305 0	0 0 52,710 0 52,710 1,274,416 22,611 1,212,177 1,234,788 0	0 0 0 0 0 0 1,274,416	0 0 0 0 0 0 1,274,416	0 0 0 0 0 0 1,274,416	0 0 367,144 0 0 367,144 - 154,880 4,182,604 4,337,484 0
Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Open Pit  Runoff (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)	0 0 0 0 0 0 907,272	0 0 0 0 0 0 907,272	0 0 0 0 0 0 907,272	0 0 0 0 0 0 907,272	0 0 0 0 0 0 907,272	0 0 183,978 0 0 183,978 1,091,249 66,526 603,783 670,309 0	0 0 23,105 0 0 23,105 1,114,354 17,775 1,006,306 1,024,081 0	0 0 107,352 0 0 107,352 1,221,706 47,967 1,360,338 1,408,305 0 1,408,305	0 0 52,710 0 0 52,710 1,274,416 22,611 1,212,177 1,234,788 0 0 1,234,788	0 0 0 0 0 0 1,274,416	0 0 0 0 0 0 1,274,416	0 0 0 0 0 0 1,274,416	0 0 367,144 0 0 367,144 - 154,880 4,182,604 4,337,484 0 0 4,337,484
Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Open Pit  Runoff (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)	0 0 0 0 0 0 907,272	0 0 0 0 0 0 907,272	0 0 0 0 0 0 907,272	0 0 0 0 0 0 907,272	0 0 0 0 0 0 907,272	0 0 183,978 0 0 183,978 1,091,249 66,526 603,783 670,309 0	0 0 23,105 0 23,105 1,114,354 17,775 1,006,306 1,024,081 0	0 0 107,352 0 0 107,352 1,221,706 47,967 1,360,338 1,408,305 0	0 0 52,710 0 52,710 1,274,416 22,611 1,212,177 1,234,788 0	0 0 0 0 0 0 1,274,416	0 0 0 0 0 0 1,274,416	0 0 0 0 0 0 1,274,416	0 0 367,144 0 0 367,144 - 154,880 4,182,604 4,337,484 0
Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Yault Open Pit  Runoff (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  End-of-Month Volume (m³)	0 0 0 0 0 0 907,272 0 0 0 0 0 0 0 4,337,484	0 0 0 0 0 0 907,272 0 0 0 0 0 0 0 4,337,484	0 0 0 0 0 0 907,272 0 0 0 0 0 0 0 4,337,484	0 0 0 0 0 0 907,272 0 0 0 0 0 0 0 4,337,484	0 0 0 0 0 0 907,272 0 0 0 0 0 0 0 4,337,484	0 0 183,978 0 0 183,978 1,091,249 66,526 603,783 670,309 0 0 670,309 5,007,793	0 0 23,105 0 0 23,105 1,114,354 17,775 1,006,306 1,024,081 0 0 1,024,081 6,031,874	0 0 107,352 0 107,352 1,221,706 47,967 1,360,338 1,408,305 0 1,408,305 7,440,179	0 0 52,710 0 52,710 1,274,416 22,611 1,212,177 1,234,788 0 0 1,234,788 8,674,967	0 0 0 0 0 0 1,274,416	0 0 0 0 0 0 1,274,416	0 0 0 0 0 0 1,274,416	0 0 367,144 0 0 367,144 - 154,880 4,182,604 4,337,484 0 0 4,337,484
Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Yault Open Pit  Runoff (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m²)  End-of-Month Volume (m²)  Phaser Open Pit (including Phaser Lake)  Runoff (m³)	0 0 0 0 0 0 907,272 0 0 0 0 0 0 0 4,337,484	0 0 0 0 0 0 907,272 0 0 0 0 0 0 4,337,484	0 0 0 0 0 0 907,272 0 0 0 0 0 0 4,337,484	0 0 0 0 0 0 907,272 0 0 0 0 0 0 4,337,484	0 0 0 0 0 0 907,272 0 0 0 0 0 0 4,337,484	0 0 183,978 0 0 183,978 1,091,249 66,526 603,783 670,309 0 0 670,309 5,007,793	0 0 23,105 0 0 23,105 1,114,354 17,775 1,006,306 1,024,081 0 1,024,081 6,031,874	0 0 107,352 0 0 107,352 1,221,706 47,967 1,360,338 1,408,305 0 1,408,305 7,440,179	0 0 52,710 0 52,710 1,274,416 22,611 1,212,177 1,234,788 0 0 1,234,788 8,674,967	0 0 0 0 0 0 1,274,416	0 0 0 0 0 0 1,274,416	0 0 0 0 0 0 1,274,416	0 0 367,144 0 0 367,144 - 154,880 4,182,604 4,337,484 0 0 4,337,484
Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Yault Open Pit  Runoff (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Phaser Open Pit (including Phaser Lake)  Runoff (m³)  Total Inflow (m³)	0 0 0 0 0 0 0 907,272 0 0 0 0 0 0 4,337,484	0 0 0 0 0 0 0 907,272 0 0 0 0 0 0 4,337,484	0 0 0 0 0 0 907,272 0 0 0 0 0 0 4,337,484	0 0 0 0 0 0 907,272 0 0 0 0 0 0 4,337,484	0 0 0 0 0 0 907,272 0 0 0 0 0 0 4,337,484	0 0 183,978 0 0 183,978 1,091,249 66,526 603,783 670,309 0 0 670,309 5,007,793	0 0 23,105 0 0 23,105 1,114,354 17,775 1,006,306 1,024,081 0 0 1,024,081 6,031,874	0 0 107,352 0 0 107,352 1,221,706 47,967 1,360,338 1,408,305 0 0 1,408,305 7,440,179	0 0 52,710 0 52,710 1,274,416 22,611 1,212,177 1,234,788 0 0 1,234,788 8,674,967	0 0 0 0 0 0 1,274,416	0 0 0 0 0 0 1,274,416	0 0 0 0 0 0 1,274,416	0 0 367,144 0 0 367,144 - 154,880 4,182,604 4,337,484 0 0 4,337,484 - 171,470
Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Yault Open Pit  Runoff (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  Net Inflow (m³)  Total Outflow (m³)  Total Outflow (m³)  Total Outflow (m³)  Total On-f-Month Volume (m²)  Phaser Open Pit (including Phaser Lake)  Runoff (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)	0 0 0 0 0 0 0 907,272 0 0 0 0 0 0 4,337,484	0 0 0 0 0 0 0 907,272 0 0 0 0 0 4,337,484	0 0 0 0 0 0 0 907,272 0 0 0 0 0 4,337,484	0 0 0 0 0 0 0 907,272 0 0 0 0 0 0 4,337,484	0 0 0 0 0 0 0 907,272 0 0 0 0 0 0 4,337,484	0 0 183,978 0 0 183,978 1,091,249 66,526 603,783 670,309 0 0 670,309 5,007,793	0 0 23,105 0 0 23,105 1,114,354 17,775 1,006,306 1,024,081 0 0 1,024,081 6,031,874	0 0 107,352 0 0 107,352 1,221,706 47,967 1,360,338 1,408,305 0 1,408,305 7,440,179 53,105 0	0 0 52,710 0 52,710 1,274,416 22,611 1,212,177 1,234,788 0 0 1,234,788 8,674,967 25,033 0	0 0 0 0 0 0 1,274,416	0 0 0 0 0 0 1,274,416	0 0 0 0 0 0 1,274,416	0 0 367,144 0 0 367,144 - 154,880 4,182,604 4,337,484 0 0 4,337,484 - 171,470 171,470
Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Yault Open Pit  Runoff (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  Net Inflow (m³)  Total Outflow (m³)  Total Outflow (m³)  Total On-Month Volume (m³)  Phaser Open Pit (including Phaser Lake)  Runoff (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Inflow (m³)	0 0 0 0 0 0 0 907,272 0 0 0 0 0 0 4,337,484	0 0 0 0 0 0 0 907,272 0 0 0 0 0 4,337,484	0 0 0 0 0 0 0 907,272 0 0 0 0 0 0 4,337,484	0 0 0 0 0 0 0 907,272 0 0 0 0 0 0 4,337,484	0 0 0 0 0 0 0 907,272 0 0 0 0 0 0 4,337,484	0 0 183,978 0 0 183,978 1,091,249 66,526 603,783 670,309 0 670,309 5,007,793 73,652 73,652 0	0 0 23,105 0 0 23,105 1,114,354 17,775 1,006,306 1,024,081 0 0 1,024,081 6,031,874 19,679 0 0	0 0 107,352 0 0 107,352 1,221,706 47,967 1,360,338 1,408,305 0 0 1,408,305 7,440,179 53,105 0 0	0 0 52,710 0 52,710 1,274,416 22,611 1,212,177 1,234,788 0 0 1,234,788 8,674,967 25,033 0 0	0 0 0 0 0 0 1,274,416	0 0 0 0 0 0 1,274,416	0 0 0 0 0 0 1,274,416	0 0 367,144 0 0 367,144 - 154,880 4,182,604 4,337,484 0 0 4,337,484 - 171,470 171,470 0
Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Open Pit  Runoff (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Phaser Open Pit (including Phaser Lake)  Runoff (m³)  Total Inflow (m³)  Phaser Open Pit (including Phaser Lake)  Runoff (m³)  Total Inflow (m³)	0 0 0 0 0 0 0 907,272 0 0 0 0 0 0 4,337,484	0 0 0 0 0 0 0 907,272 0 0 0 0 0 4,337,484	0 0 0 0 0 0 0 907,272 0 0 0 0 0 4,337,484	0 0 0 0 0 0 0 907,272 0 0 0 0 0 0 4,337,484	0 0 0 0 0 0 0 907,272 0 0 0 0 0 0 4,337,484	0 0 183,978 0 0 183,978 1,091,249 66,526 603,783 670,309 0 0 670,309 5,007,793	0 0 23,105 0 0 23,105 1,114,354 17,775 1,006,306 1,024,081 0 0 1,024,081 6,031,874	0 0 107,352 0 0 107,352 1,221,706 47,967 1,360,338 1,408,305 0 1,408,305 7,440,179 53,105 0	0 0 52,710 0 52,710 1,274,416 22,611 1,212,177 1,234,788 0 0 1,234,788 8,674,967 25,033 0	0 0 0 0 0 0 1,274,416	0 0 0 0 0 0 1,274,416	0 0 0 0 0 0 1,274,416	0 0 367,144 0 0 367,144 - 154,880 4,182,604 4,337,484 0 0 4,337,484 - 171,470 171,470

JUNE 2016 D2



						Yea	r 2021						ANNUAL TOTAL
No. of days	Jan 31	Feb 28	Mar 31	Apr 30	May 31	Jun 30	Jul 31	Aug 31	Sep 30	Oct 31	Nov 30	Dec 31	365
Tailings (tonnes):	279,000	252,000	279,000	270,000	279,000	270,000	279,000	279,000	270,000	279,000	270,000	279,000	3,285,000
Cummulative Tailings (tonnes):	33,081,032	33,333,032	33,612,032	33,882,032	34,161,032	34,431,032	34,710,032	34,989,032	35,259,032	35,538,032	35,808,032	36,087,032	-
Cummulative Tailings (m3) - North Cell Cummulative Tailings (m3) - South Cell	15,475,130 12,110,880	15,475,130 12,344,213	15,475,130 12,602,547	15,475,130 12,852,547	15,475,130 13,063,910	15,648,207 13,063,910	15,827,054 13,063,910	16,005,900 13,063,910	16,178,977 13,063,910	16,178,977 13,275,274	16,178,977 13,525,274	16,178,977 13,783,607	-
North Cell (TSF)	12,110,000	12,544,213	12,002,547	12,032,347	15,005,510	13,003,310	13,003,310	13,003,310	13,003,310	13,273,274	15,525,274	13,703,007	
Starting Pond Volume (m³)	44,827	44,827	44,827	44,827	44,827	44,827	33,892	29,188	23,859	12,734	0	0	-
Water from tailings slurry (m <sup>3</sup> )	0	0	0	0	0	168,771	175,002	174,377	168,582	0	0	0	686,731
Runoff (m³)  Total Inflow (m³)	0	0	0	0	0	76,665 245,435	7,700 182,702	42,862 217,238	21,238 189,819	-13 -13	0	0	148,451 835,182
Transfer to South Cell (m <sup>3</sup> )	0	0	0	0	0	256,371	187,406	222,568	200,944	12,721	0	0	880,009
Reclaim water to the mill (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Outflow (m³)	0	0	0	0	0	256,371	187,406	222,568	200,944	12,721	0	0	880,009
Net Inflow (m³)	0	0	0	0	0	-10,935	-4,704	-5,329	-11,124	-12,734	0	0	-44,827
End-of-Month Volume (m³)	44,827	44,827	44,827	44,827	44,827	33,892	29,188	23,859	12,734	0	0	0	-
South Cell (TSF)  Pumped From Portage Pit (m <sup>3</sup> )	0	0	0	0	0	0	0	0	0	0	0	0	0
Runoff (m <sup>3</sup> )	0	0	0	0	0	40,982	-10,260	8,951	5,933	-22	0	0	45,584
Transfer from North Cell (m³)	0	0	0	0	0	256,371	187,406	222,568	200,944	12,721	0	0	880,009
Water from tailings slurry (m³)	24,911	22,639	24,928	24,137	99,756	0	0	0	0	62,284	48,074	24,897	331,626
Total Inflow (m³)	24,911	22,639	24,928	24,137	99,756	297,352	177,146	231,518	206,877	74,983	48,074	24,897	1,257,218
Reclaim water to the mill (m³)  Transfer to Portage Pit (m³)	119,121	107,593 0	119,121 0	115,278 0	212,121	205,278	212,121	212,121	205,278	212,121	79,278 0	63,321	1,862,750 0
Total Outflow (m³)	119,121	107,593	119,121	115,278	212,121	205,278	212,121	212,121	205,278	212,121	79,278	63,321	1,862,750
Net Inflow (m³)	-94,210	-84,954	-94,193	-91,141	-112,365	92,074	-34,975	19,397	1,599	-137,137	-31,204	-38,424	-605,532
End-of-Month Volume (m³)	896,047	811,093	716,900	625,759	513,394	605,468	570,494	589,891	591,490	454,352	423,149	384,725	-
Mill/Camp	2 724	2.050	2.002	2.042	2.042	2 672	2 627	2 724	2.402	2.762	1.044	2 505	24.400
Ore water (m³)  Reclaim water (m³)	2,734 119,121	3,856 107,593	2,902 119,121	2,943 115,278	3,013 212,121	2,673 205,278	3,627 212,121	2,734 212,121	2,403 205,278	2,762 212,121	1,944 79,278	2,595 63,321	34,186 1,862,750
Freshwater from Third Portage Lake (m <sup>3</sup> )	130,200	117,600	130,200	126,000	37,200	36,000	37,200	37,200	36,000	37,200	162,000	186,000	1,072,800
Total Inflow (m³)	252,055	229,048	252,222	244,221	252,334	243,951	252,948	252,055	243,681	252,083	243,222	251,915	2,969,736
Freshwater for camp purposes (m³)	2,945	2,660	2,945	2,850	2,945	2,850	2,945	2,945	2,850	2,945	2,850	2,945	34,675
Slurry water (m³)	249,110	226,388	249,277	241,371	249,389	241,101	250,003	249,110	240,831	249,138	240,372	248,970	2,935,061
Total Outflow (m³)	252,055 0	229,048 0	252,222 0	244,221	252,334 0	243,951 0	252,948 0	252,055 0	243,681 0	252,083 0	243,222	251,915 0	2,969,736
Net Inflow (m³)  Reclaim water pumping rate (m³/hr)	160	160	160	160	285	285	285	285	285	285	110	85	-
Freshwater pumping rate (m /nr)	175	175	175	175	50	50	50	50	50	50	225	250	-
TSF Water Balance													
Slurry water (m³)	249,110	226,388	249,277	241,371	249,389	241,101	250,003	249,110	240,831	249,138	240,372	248,970	2,935,061
Tonnage destination (1=100% SC, 0=100% NC)  NC Tailings water/ice entrampment (%)	1.000 90%	1.000 90%	1.000 90%	1.000 90%	1.000 60%	0.000 30%	0.000 30%	0.000 30%	0.000 30%	1.000 75%	1.000 80%	1.000 90%	
SC Tailings water/ice entrampment (%)	90%	90%	90%	90%	60%	30%	30%	30%	30%	75%	80%	90%	
Slurry water returned to the NC pond (m <sup>3</sup> )	0	0	0	0	0	168,771	175,002	174,377	168,582	0	0	0	686,731
Slurry water returned to the SC pond (m <sup>3</sup> )	24,911	22,639	24,928	24,137	99,756	0	0	0	0	62,284	48,074	24,897	331,626
						Yea	r 2021						
	Jan	Feb	Mar	Apr	May	Jun	r 2021 Jul	Aug	Sep	Oct	Nov	Dec	ANNUAL TOTAL
No. of days	Jan 31	Feb 28	Mar 31	Apr 30	May 31			Aug 31	Sep 30	Oct 31	Nov 30	Dec 31	ANNUAL TOTAL
Goose Pit (ATP)	31	28	31	30	31	Jun 30	Jul 31	31	30	31	30	31	365
•						Jun	Jul				1		
Goose Pit (ATP) Runoff (m³)	<b>31</b> 19,131	<b>28</b> 19,313	<b>31</b> 19,131	<b>30</b> 19,131	<b>31</b> 19,313	Jun 30 60,716	Jul 31 30,242	<b>31</b> 49,297	<b>30</b> 33,265	<b>31</b> 19,131	<b>30</b> 19,313	<b>31</b> 19,131	365 327,114
Goose Pit (ATP)  Runoff (m³)  Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)	19,131 0 0 19,131	19,313 0 0 19,313	31 19,131 0 0 19,131	30 19,131 0 0 19,131	19,313 0 0 19,313	Jun 30 60,716 0 0 60,716	30,242 0 0 30,242	31 49,297 0 0 49,297	30 33,265 0 0 33,265	19,131 0 0 19,131	19,313 0 0 19,313	31 19,131 0 0 19,131	365 327,114 0 0 327,114
Goose Pit (ATP)  Runoff (m³)  Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)	31 19,131 0 0 19,131 0	19,313 0 0 19,313 0	31 19,131 0 0 19,131 0	19,131 0 0 19,131 0	19,313 0 0 19,313 0	Jun 30 60,716 0 0 60,716 0	30,242 0 0 0 30,242 0	31 49,297 0 0 49,297 0	33,265 0 0 33,265 0	19,131 0 0 19,131 0	19,313 0 0 19,313 0	31 19,131 0 0 19,131 0	365 327,114 0 0 327,114 0
Goose Pit (ATP)  Runoff (m³)  Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)	19,131 0 0 19,131 0 19,131 0	19,313 0 0 19,313 0 0	19,131 0 0 19,131 0 0	19,131 0 0 19,131 0 0 19,131	19,313 0 0 19,313 0 0	30 60,716 0 0 60,716 0 0	30,242 0 0 30,242 0 0	49,297 0 0 49,297 0 49,297 0	33,265 0 0 33,265 0 0	31 19,131 0 0 19,131 0	19,313 0 0 19,313 0 0	19,131 0 0 19,131 0 0	365 327,114 0 0 327,114 0 0
Goose Pit (ATP)  Runoff (m³)  Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)	19,131 0 0 19,131 0 0 19,131	19,313 0 0 19,313 0 0 19,313	31 19,131 0 0 19,131 0 0 19,131	19,131 0 0 19,131 0 0 19,131	31 19,313 0 0 19,313 0 0 19,313	30 60,716 0 0 60,716 0 0 0 60,716	30,242 0 0 30,242 0 0 30,242 0 0	31 49,297 0 0 49,297 0 0 49,297	33,265 0 0 33,265 0 0 33,265	31 19,131 0 0 19,131 0 0 19,131	19,313 0 0 19,313 0 19,313 0 19,313	31 19,131 0 0 19,131 0 0 19,131	365 327,114 0 0 327,114
Goose Pit (ATP)  Runoff (m³)  Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)	19,131 0 0 19,131 0 19,131 0	19,313 0 0 19,313 0 0	19,131 0 0 19,131 0 0	19,131 0 0 19,131 0 0 19,131	19,313 0 0 19,313 0 0	30 60,716 0 0 60,716 0 0	30,242 0 0 30,242 0 0	49,297 0 0 49,297 0 49,297 0	33,265 0 0 33,265 0 0	31 19,131 0 0 19,131 0	19,313 0 0 19,313 0 0	19,131 0 0 19,131 0 0	365 327,114 0 0 327,114 0 0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) End-of-Month Volume (m³)  Portage Pit Runoff (m³)	31 19,131 0 0 19,131 0 0 19,131 5,215,254	28 19,313 0 0 19,313 0 0 19,313 5,234,567	31 19,131 0 0 19,131 0 0 19,131 5,253,698	30 19,131 0 0 19,131 0 0 19,131 5,272,829	31 19,313 0 0 19,313 0 0 19,313 5,292,142	Jun 30 60,716 0 0 60,716 0 0 60,716 5,352,858	30,242 0 0 30,242 0 0 30,242 0 30,242 5,383,100	31 49,297 0 0 49,297 0 0 49,297 5,432,397 56,628	33,265 0 0 33,265 0 0 33,265 5,465,662	31 19,131 0 0 19,131 0 0 19,131 5,484,793	30 19,313 0 0 19,313 0 0 19,313 5,504,106	31 19,131 0 0 19,131 0 0 19,131 5,523,237	365  327,114  0  0  327,114  0  0  327,114  -  182,846
Goose Pit (ATP) Runoff (m³)  Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit  Runoff (m³)  Transfer from SC (m³)	31 19,131 0 0 19,131 0 0 19,131 5,215,254	28 19,313 0 0 19,313 0 0 19,313 5,234,567	31 19,131 0 0 19,131 0 0 19,131 5,253,698	30 19,131 0 0 19,131 0 0 19,131 5,272,829	31 19,313 0 0 19,313 0 0 19,313 5,292,142	Jun 30 60,716 0 0 60,716 0 0 60,716 5,352,858 78,539 0	30,242 0 0 30,242 0 0 30,242 5,383,100 20,985	31 49,297 0 0 49,297 0 0 49,297 5,432,397 56,628 0	30 33,265 0 0 33,265 0 33,265 5,465,662 26,694 0	31 19,131 0 0 19,131 0 0 19,131 5,484,793	30 19,313 0 0 19,313 0 0 19,313 5,504,106	31 19,131 0 0 19,131 0 0 19,131 5,523,237	365  327,114  0  0  327,114  0  0  327,114  -  182,846  0
Goose Pit (ATP) Runoff (m³)  Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit  Runoff (m³)  Transfer from SC (m³)  Sewage water from Tear Drop Lake (m³)	31 19,131 0 0 19,131 0 0 19,131 5,215,254	28 19,313 0 0 19,313 0 0 19,313 5,234,567	31 19,131 0 0 19,131 0 0 19,131 5,253,698	30 19,131 0 0 19,131 0 0 19,131 5,272,829 0 0	31 19,313 0 0 19,313 0 0 19,313 5,292,142 0 0 23,085	Jun 30 60,716 0 0 60,716 0 0 60,716 5,352,858 78,539 0	30,242 0 0 30,242 0 0 30,242 5,383,100 20,985 0	31 49,297 0 0 49,297 0 0 49,297 5,432,397 56,628 0	33,265 0 0 33,265 0 0 33,265 5,465,662 26,694 0 11,590	31 19,131 0 0 19,131 0 0 19,131 5,484,793	30 19,313 0 0 19,313 0 0 19,313 5,504,106	31 19,131 0 0 19,131 0 0 19,131 5,523,237 0 0	365  327,114  0  0  327,114  0  0  327,114  -  182,846  0  34,675
Goose Pit (ATP) Runoff (m³)  Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit  Runoff (m³)  Transfer from SC (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)	31 19,131 0 0 19,131 0 0 19,131 5,215,254 0 0	28 19,313 0 0 19,313 0 0 19,313 5,234,567	31 19,131 0 0 19,131 0 0 19,131 5,253,698	30 19,131 0 0 19,131 0 0 19,131 5,272,829	31 19,313 0 0 19,313 0 0 19,313 5,292,142	Jun 30 60,716 0 0 60,716 0 0 60,716 5,352,858 78,539 0	30,242 0 0 30,242 0 0 30,242 5,383,100 20,985	31 49,297 0 0 49,297 0 0 49,297 5,432,397 56,628 0	30 33,265 0 0 33,265 0 33,265 5,465,662 26,694 0	31 19,131 0 0 19,131 0 0 19,131 5,484,793	30 19,313 0 0 19,313 0 0 19,313 5,504,106	31 19,131 0 0 19,131 0 0 19,131 5,523,237	365  327,114  0  0  327,114  0  0  327,114  -  182,846  0
Goose Pit (ATP) Runoff (m³)  Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit  Runoff (m³)  Transfer from SC (m³)  Sewage water from Tear Drop Lake (m³)	31 19,131 0 0 19,131 0 0 19,131 5,215,254 0 0 0	28 19,313 0 0 19,313 0 0 19,313 5,234,567 0 0 0	31 19,131 0 0 19,131 0 0 19,131 5,253,698	30 19,131 0 0 19,131 0 0 19,131 5,272,829 0 0 0	31 19,313 0 0 19,313 0 0 19,313 5,292,142 0 0 23,085 0	Jun 30 60,716 0 0 60,716 0 0 60,716 5,352,858 78,539 0 0 1,130,000	30,242 0 0 30,242 0 0 30,242 5,383,100 20,985 0 0 1,130,000	31 49,297 0 0 49,297 0 0 49,297 5,432,397 56,628 0 0 1,130,000	33,265 0 0 33,265 0 0 33,265 5,465,662 26,694 0 11,590 1,130,000	31 19,131 0 0 19,131 0 0 19,131 5,484,793 0 0 0	30 19,313 0 0 19,313 0 0 19,313 5,504,106 0 0	31 19,131 0 0 19,131 0 0 19,131 5,523,237 0 0 0	365  327,114  0  0  327,114  0  0  327,114  -  182,846  0  34,675  4,520,000
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)	31 19,131 0 0 19,131 0 0 19,131 5,215,254 0 0 0 0 0 30,000 0	28  19,313 0 0 19,313 0 19,313 0 19,313 5,234,567  0 0 0 30,000 30,000 0	31 19,131 0 0 19,131 0 0 19,131 5,253,698 0 0 0 0 30,000 0	30 19,131 0 0 19,131 0 0 19,131 5,272,829 0 0 0 0 30,000 0	31 19,313 0 0 19,313 0 0 19,313 5,292,142 0 0 23,085 0 30,000 53,085 0	Jun 30 60,716 0 0 60,716 0 0 60,716 5,352,858 78,539 0 0 1,130,000 0 1,208,539 0	30,242 0 0 30,242 0 0 30,242 5,383,100 20,985 0 0 1,130,000 0 1,150,985 0	31 49,297 0 0 49,297 0 0 49,297 5,432,397 56,628 0 0 1,130,000 0 1,186,628 0	30 33,265 0 0 33,265 0 0 33,265 5,465,662 26,694 0 11,590 1,130,000 0 1,168,284 0	31 19,131 0 0 19,131 0 0 19,131 5,484,793 0 0 0 0 30,000 0	30 19,313 0 0 19,313 0 0 19,313 5,504,106 0 0 0 0 0 30,000 0	31 19,131 0 0 19,131 0 0 19,131 5,523,237 0 0 0 0 30,000 0	365  327,114  0  0  327,114  0  0  327,114  -  182,846  0  34,675  4,520,000  240,000  4,977,521  0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  End-of-Month Volume (m³) Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³)	31 19,131 0 0 19,131 0 0 19,131 5,215,254 0 0 0 0 30,000 0 0	28  19,313 0 0 19,313 0 0 19,313 0 19,313 5,234,567  0 0 0 30,000 30,000 0 0	31 19,131 0 0 19,131 0 0 19,131 5,253,698 0 0 0 0 30,000 0 0	30 19,131 0 0 19,131 0 0 19,131 5,272,829 0 0 0 0 30,000 0 0	31 19,313 0 0 19,313 0 0 19,313 5,292,142 0 0 23,085 0 30,000 53,085 0	Jun 30 60,716 0 0 60,716 0 0 60,716 5,352,858 78,539 0 0 1,130,000 0 1,208,539 0	Jul 31 30,242 0 0 0 30,242 0 0 30,242 5,383,100 20,985 0 0 1,130,000 0 1,150,985 0 0 0	31 49,297 0 0 49,297 0 0 49,297 5,432,397 56,628 0 0 1,130,000 0 1,186,628 0	30 33,265 0 0 33,265 0 0 33,265 5,465,662 26,694 0 11,590 1,130,000 0 1,168,284 0	31 19,131 0 0 19,131 0 0 19,131 5,484,793 0 0 0 0 30,000 0 0	30 19,313 0 0 19,313 0 0 19,313 5,504,106 0 0 0 0 30,000 0 0	31 19,131 0 0 19,131 0 0 19,131 5,523,237 0 0 0 0 30,000 0 0	365  327,114  0  0  327,114  0  0  327,114  -  182,846  0  34,675  4,520,000  240,000  4,977,521  0  0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  End-of-Month Volume (m³) Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)	31 19,131 0 0 19,131 0 0 19,131 5,215,254 0 0 0 0 30,000 0 30,000	28  19,313 0 0 19,313 0 0 19,313 0 0 19,313 5,234,567  0 0 30,000 30,000 0 30,000 0 30,000	31 19,131 0 0 19,131 0 0 19,131 5,253,698 0 0 0 30,000 0 30,000 0 30,000	30 19,131 0 0 19,131 0 0 19,131 5,272,829 0 0 0 30,000 0 30,000 0 30,000	31 19,313 0 0 19,313 0 0 19,313 5,292,142 0 0 23,085 0 30,000 53,085	Jun 30 60,716 0 0 60,716 0 0 60,716 5,352,858 78,539 0 1,130,000 0 1,208,539 0 1,208,539	Jul 31 30,242 0 0 30,242 0 0 30,242 5,383,100 20,985 0 1,130,000 0 1,150,985 0 1,150,985	31 49,297 0 0 49,297 0 0 49,297 5,432,397 56,628 0 1,130,000 0 1,186,628 0 1,186,628	30 33,265 0 0 33,265 0 0 33,265 5,465,662 26,694 0 11,590 1,130,000 0 1,168,284 0	31 19,131 0 0 19,131 0 0 19,131 5,484,793 0 0 0 0 30,000 0 30,000 0 30,000	30 19,313 0 0 19,313 0 0 19,313 5,504,106 0 0 0 30,000 0 30,000 0 30,000	31 19,131 0 0 19,131 0 0 19,131 5,523,237 0 0 0 30,000 0 30,000 0 30,000	365  327,114  0  0  327,114  0  0  327,114  -  182,846  0  34,675  4,520,000  240,000  4,977,521  0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  End-of-Month Volume (m³) Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³)	31 19,131 0 0 19,131 0 0 19,131 5,215,254 0 0 0 0 30,000 0 0	28  19,313 0 0 19,313 0 0 19,313 0 19,313 5,234,567  0 0 0 30,000 30,000 0 0	31 19,131 0 0 19,131 0 0 19,131 5,253,698 0 0 0 0 30,000 0 0	30 19,131 0 0 19,131 0 0 19,131 5,272,829 0 0 0 0 30,000 0 0	31 19,313 0 0 19,313 0 0 19,313 5,292,142 0 0 23,085 0 30,000 53,085 0	Jun 30 60,716 0 0 60,716 0 0 60,716 5,352,858 78,539 0 0 1,130,000 0 1,208,539 0	Jul 31 30,242 0 0 0 30,242 0 0 30,242 5,383,100 20,985 0 0 1,130,000 0 1,150,985 0 0 0	31 49,297 0 0 49,297 0 0 49,297 5,432,397 56,628 0 0 1,130,000 0 1,186,628 0	30 33,265 0 0 33,265 0 0 33,265 5,465,662 26,694 0 11,590 1,130,000 0 1,168,284 0	31 19,131 0 0 19,131 0 0 19,131 5,484,793 0 0 0 0 30,000 0 0	30 19,313 0 0 19,313 0 0 19,313 5,504,106 0 0 0 0 30,000 0 0	31 19,131 0 0 19,131 0 0 19,131 5,523,237 0 0 0 0 30,000 0 0	365  327,114  0  0  327,114  0  0  327,114  -  182,846  0  34,675  4,520,000  240,000  4,977,521  0  0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  Ret Inflow (m³)  End-of-Month Volume (m³)	31 19,131 0 0 19,131 0 0 19,131 5,215,254 0 0 0 0 30,000 0 30,000	28  19,313 0 0 19,313 0 0 19,313 0 0 19,313 5,234,567  0 0 30,000 30,000 0 30,000 0 30,000	31 19,131 0 0 19,131 0 0 19,131 5,253,698 0 0 0 30,000 0 30,000 0 30,000	30 19,131 0 0 19,131 0 0 19,131 5,272,829 0 0 0 30,000 0 30,000 0 30,000	31 19,313 0 0 19,313 0 0 19,313 5,292,142 0 0 23,085 0 30,000 53,085	Jun 30 60,716 0 0 60,716 0 0 60,716 5,352,858 78,539 0 1,130,000 0 1,208,539 0 1,208,539	Jul 31 30,242 0 0 30,242 0 0 30,242 5,383,100 20,985 0 1,130,000 0 1,150,985 0 1,150,985	31 49,297 0 0 49,297 0 0 49,297 5,432,397 56,628 0 1,130,000 0 1,186,628 0 1,186,628	30 33,265 0 0 33,265 0 0 33,265 5,465,662 26,694 0 11,590 1,130,000 0 1,168,284 0	31 19,131 0 0 19,131 0 0 19,131 5,484,793 0 0 0 0 30,000 0 30,000 0 30,000	30 19,313 0 0 19,313 0 0 19,313 5,504,106 0 0 0 30,000 0 30,000 0 30,000	31 19,131 0 0 19,131 0 0 19,131 5,523,237 0 0 0 30,000 0 30,000 0 30,000	365  327,114  0  0  327,114  0  0  327,114  -  182,846  0  34,675  4,520,000  240,000  4,977,521  0  0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  Ret Inflow (m³)  End-of-Month Volume (m³)  Vault Attenuation Pond	31 19,131 0 0 19,131 0 0 19,131 5,215,254 0 0 0 30,000 0 30,000 0 30,000 10,176,115	28  19,313 0 0 19,313 0 0 19,313 0 0 19,313 5,234,567  0 0 30,000 0 30,000 0 30,000 10,206,115	31 19,131 0 0 19,131 0 0 19,131 5,253,698 0 0 0 30,000 0 30,000 0 30,000 10,236,115	30  19,131 0 0 19,131 0 0 19,131 0 0 19,131 5,272,829  0 0 0 30,000 0 30,000 0 30,000 10,266,115	31 19,313 0 0 19,313 0 0 19,313 5,292,142 0 0 23,085 0 30,000 53,085 0 0 53,085 10,319,200	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,352,858 78,539 0 1,130,000 0 1,208,539 0 1,208,539 11,527,739 183,978 0	Jul 31 30,242 0 0 30,242 0 0 30,242 5,383,100 20,985 0 1,130,000 0 1,150,985 0 1,150,985 12,678,724 23,105 0	31 49,297 0 0 49,297 0 0 49,297 5,432,397 56,628 0 1,130,000 0 1,186,628 0 1,186,628 13,865,352 0	30 33,265 0 0 33,265 0 0 33,265 5,465,662 26,694 0 11,590 1,130,000 0 1,168,284 0 0 1,168,284 15,033,636	31 19,131 0 0 19,131 0 0 19,131 5,484,793 0 0 0 30,000 0 30,000 0 30,000 15,063,636	30 19,313 0 0 19,313 0 0 19,313 5,504,106 0 0 0 30,000 0 30,000 0 30,000 15,093,636	31 19,131 0 0 19,131 0 0 19,131 5,523,237 0 0 0 30,000 0 30,000 0 30,000 15,123,636	365  327,114  0  0  327,114  0  0  327,114  0  182,846  0  34,675  4,520,000  240,000  4,977,521  0  0  4,977,521  -  367,144  0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³) Total Inflow (m³) Pumped to Attenuation Pond (m³) Total Outflow (m³) Net Inflow (m³) End-of-Month Volume (m³) Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³) Total Inflow (m³) Pumped to Attenuation Pond (m³) Total Outflow (m³) Net Inflow (m³) Net Inflow (m³) Rend-of-Month Volume (m³) Vault Attenuation Pond Runoff (m³) Pumped From Vault Pit (m³) Pumped From Phaser Pit (m³)	31 19,131 0 0 19,131 0 0 19,131 5,215,254 0 0 0 0 30,000 0 30,000 0 30,000 10,176,115	28  19,313 0 0 19,313 0 0 19,313 0 0 19,313 5,234,567  0 0 0 30,000 0 30,000 0 30,000 10,206,115  0 0 0	31 19,131 0 0 19,131 0 0 19,131 5,253,698 0 0 0 30,000 0 30,000 0 30,000 10,236,115	30  19,131 0 0 19,131 0 0 19,131 0 0 19,131 5,272,829  0 0 0 30,000 0 30,000 0 30,000 10,266,115	31 19,313 0 0 19,313 0 0 19,313 5,292,142 0 0 23,085 0 30,000 53,085 0 0 53,085 10,319,200 0	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,352,858 78,539 0 1,130,000 0 1,208,539 0 1,208,539 11,527,739 183,978 0 0	Jul 31 30,242 0 0 30,242 0 0 30,242 0 0 30,242 5,383,100  20,985 0 1,130,000 0 1,150,985 0 1,150,985 12,678,724  23,105 0 0	31 49,297 0 0 49,297 0 0 49,297 5,432,397 56,628 0 1,130,000 0 1,186,628 0 1,186,628 13,865,352 107,352 0	30 33,265 0 0 33,265 0 0 33,265 5,465,662 26,694 0 11,590 1,130,000 0 1,168,284 0 0 1,168,284 15,033,636	31 19,131 0 0 19,131 0 0 19,131 5,484,793 0 0 0 30,000 0 30,000 0 30,000 15,063,636 0 0	30 19,313 0 0 19,313 0 0 19,313 5,504,106 0 0 0 30,000 0 30,000 0 30,000 15,093,636	31 19,131 0 0 19,131 0 0 19,131 5,523,237 0 0 0 30,000 0 30,000 0 30,000 15,123,636	365  327,114  0  0  327,114  0  0  327,114  -  182,846  0  34,675  4,520,000  240,000  4,977,521  0  0  4,977,521  -  367,144  0  0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³) Total Inflow (m³) Pumped to Attenuation Pond (m³) Total Outflow (m³) Net Inflow (m³) End-of-Month Volume (m³) Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³) Total Inflow (m³) Pumped to Attenuation Pond (m³) Total Outflow (m³) Net Inflow (m³) Net Inflow (m³) Punded Trom Volume (m³) Vault Attenuation Pond Runoff (m³) Pumped From Vault Pit (m³) Pumped From Phaser Pit (m³) Total Inflow (m³)	31 19,131 0 0 19,131 0 0 19,131 5,215,254 0 0 0 30,000 0 30,000 0 30,000 10,176,115	28  19,313 0 0 19,313 0 0 19,313 0 0 19,313 5,234,567  0 0 30,000 30,000 0 30,000 0 10,206,115	31 19,131 0 0 19,131 0 0 19,131 5,253,698 0 0 0 30,000 30,000 0 30,000 10,236,115	30  19,131 0 0 19,131 0 0 19,131 5,272,829  0 0 0 30,000 0 30,000 0 10,266,115	31 19,313 0 0 19,313 0 0 19,313 5,292,142 0 0 23,085 0 30,000 53,085 0 0 53,085 10,319,200 0 0	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,352,858 78,539 0 1,130,000 0 1,208,539 0 1,208,539 11,527,739 183,978 0 0 183,978	Jul 31 30,242 0 0 30,242 0 0 30,242 5,383,100 20,985 0 1,130,000 0 1,150,985 0 1,150,985 12,678,724 23,105 0 0 23,105	31 49,297 0 0 49,297 0 0 49,297 5,432,397 56,628 0 1,130,000 0 1,186,628 0 1,186,628 13,865,352 107,352 0 0	30 33,265 0 0 33,265 0 0 33,265 5,465,662 26,694 0 11,590 1,130,000 0 1,168,284 0 0 1,168,284 15,033,636	31 19,131 0 0 19,131 0 0 19,131 5,484,793 0 0 0 30,000 30,000 0 30,000 0 15,063,636	30 19,313 0 0 19,313 0 0 19,313 5,504,106 0 0 0 30,000 0 30,000 0 30,000 15,093,636	31 19,131 0 0 19,131 0 0 19,131 5,523,237 0 0 0 30,000 30,000 0 30,000 0 15,123,636	365  327,114  0  0  327,114  0  0  327,114  0  0  327,114  -  182,846  0  34,675  4,520,000  240,000  4,977,521  0  0  4,977,521  -  367,144  0  0  367,144
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³) Total Inflow (m³) Pumped to Attenuation Pond (m³) Total Outflow (m³) Net Inflow (m³) End-of-Month Volume (m³) Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³) Total Inflow (m³) Pumped to Attenuation Pond (m³) Net Inflow (m³) Net Inflow (m³) Net Inflow (m³) Net Inflow (m³) Pumped From Vault Pit (m³) Pumped From Phaser Pit (m³) Pumped From Phaser Pit (m³) Total Inflow (m³) Decant - TSS to Wally Lake (m³)	31 19,131 0 0 19,131 0 0 19,131 5,215,254 0 0 0 0 30,000 0 30,000 0 30,000 10,176,115	28  19,313 0 0 19,313 0 19,313 0 19,313 5,234,567  0 0 30,000 30,000 0 30,000 10,206,115  0 0 0 0 0	31 19,131 0 0 19,131 0 0 19,131 5,253,698 0 0 0 30,000 0 30,000 0 30,000 10,236,115	30  19,131 0 0 19,131 0 0 19,131 0 0 19,131 5,272,829  0 0 0 30,000 0 30,000 0 30,000 10,266,115	31 19,313 0 0 19,313 0 0 19,313 5,292,142 0 0 23,085 0 30,000 53,085 0 0 53,085 10,319,200 0	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,352,858 78,539 0 1,130,000 0 1,208,539 0 1,208,539 11,527,739 183,978 0 0 183,978 0	Jul 31 30,242 0 0 30,242 0 30,242 0 30,242 5,383,100 20,985 0 1,130,000 0 1,150,985 0 0 1,150,985 0 23,105 0 0 23,105 0	31 49,297 0 0 49,297 0 0 49,297 5,432,397 56,628 0 0 1,130,000 0 1,186,628 0 1,186,628 13,865,352 0 0	30 33,265 0 0 33,265 0 0 33,265 5,465,662 26,694 0 11,590 1,130,000 0 1,168,284 0 0 1,168,284 0 0 1,168,284 0 0 1,168,284 0 0 1,168,284 0 0 0 1,170,000 0 0 0 0 1,170,000 0 0 0 0 0 0 0 0 0 0 0 0	31 19,131 0 0 19,131 0 0 19,131 5,484,793 0 0 0 0 30,000 30,000 0 30,000 0 15,063,636	30 19,313 0 0 19,313 0 0 19,313 5,504,106 0 0 0 30,000 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	31 19,131 0 0 19,131 0 0 19,131 5,523,237 0 0 0 0 30,000 30,000 0 30,000 0 15,123,636	365  327,114  0  0  327,114  0  0  327,114  -  182,846  0  34,675  4,520,000  240,000  4,977,521  0  0  4,977,521  -  367,144  0  0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³) Total Inflow (m³) Pumped to Attenuation Pond (m³) Total Outflow (m³) Net Inflow (m³) End-of-Month Volume (m³) Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³) Total Inflow (m³) Pumped to Attenuation Pond (m³) Total Outflow (m³) Net Inflow (m³) Net Inflow (m³) Punded Trom Volume (m³) Vault Attenuation Pond Runoff (m³) Pumped From Vault Pit (m³) Pumped From Phaser Pit (m³) Total Inflow (m³)	31 19,131 0 0 19,131 0 0 19,131 5,215,254 0 0 0 30,000 30,000 0 30,000 10,176,115 0 0	28  19,313 0 0 19,313 0 0 19,313 0 0 19,313 5,234,567  0 0 30,000 30,000 0 30,000 0 10,206,115	31 19,131 0 0 19,131 0 0 19,131 5,253,698 0 0 0 30,000 30,000 0 30,000 10,236,115	30  19,131 0 0 19,131 0 0 19,131 5,272,829 0 0 0 30,000 30,000 0 30,000 10,266,115 0 0 0 0	31 19,313 0 0 19,313 0 0 19,313 5,292,142 0 0 23,085 0 30,000 53,085 0 0 0 0 0 0 0 0 0 0 0 0 0	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,352,858 78,539 0 1,130,000 0 1,208,539 0 1,208,539 11,527,739 183,978 0 0 183,978	Jul 31 30,242 0 0 30,242 0 0 30,242 5,383,100 20,985 0 1,130,000 0 1,150,985 0 1,150,985 12,678,724 23,105 0 0 23,105	31 49,297 0 0 49,297 0 0 49,297 5,432,397 56,628 0 1,130,000 0 1,186,628 0 1,186,628 13,865,352 107,352 0 0	30 33,265 0 0 33,265 0 0 33,265 5,465,662 26,694 0 11,590 1,130,000 0 1,168,284 0 0 1,168,284 15,033,636	31 19,131 0 0 19,131 0 0 19,131 5,484,793 0 0 0 30,000 30,000 0 30,000 0 30,000 15,063,636	30 19,313 0 0 19,313 0 0 19,313 5,504,106 0 0 0 30,000 0 30,000 0 30,000 15,093,636	31 19,131 0 0 19,131 0 0 19,131 5,523,237 0 0 0 30,000 30,000 0 30,000 0 15,123,636	365  327,114  0  0  327,114  0  0  327,114  -  182,846  0  34,675  4,520,000  240,000  4,977,521  0  0  4,977,521  -  367,144  0  0  367,144  0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  Portage Pit Runoff (m³)  Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Inflow (m³) Net Inflow (m³) Net Inflow (m³) Pumped From Vault Pit (m³) Pumped From Vault Pit (m³) Pumped From Phaser Pit (m³) Total Inflow (m³) Decant - TSS to Wally Lake (m³) Total Outflow (m³) Total Outflow (m³)	31 19,131 0 0 19,131 0 0 19,131 5,215,254 0 0 0 30,000 30,000 0 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	28  19,313 0 0 19,313 0 0 19,313 0 0 19,313 5,234,567 0 0 0 30,000 30,000 0 30,000 0 0 0 0 0	31 19,131 0 0 19,131 0 0 19,131 5,253,698 0 0 0 30,000 30,000 0 30,000 10,236,115 0 0	30  19,131 0 0 19,131 0 0 19,131 5,272,829 0 0 0 30,000 30,000 0 30,000 10,266,115 0 0 0 0	31 19,313 0 0 19,313 0 0 19,313 5,292,142 0 0 23,085 0 30,000 53,085 0 0 0 0 0 0 0 0 0 0 0 0 0	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,352,858 78,539 0 1,130,000 0 1,208,539 0 1,208,539 11,527,739 183,978 0 0 183,978 0 0 10 0 10 10 10 10 10 10 10 10 10 10	Jul 31 30,242 0 0 30,242 0 30,242 0 30,242 5,383,100 20,985 0 1,130,000 0 1,150,985 0 0 1,150,985 12,678,724 23,105 0 0 23,105 0 0	31 49,297 0 0 49,297 0 0 49,297 5,432,397 56,628 0 0 1,130,000 0 1,186,628 0 0 1,186,628 0 0 1,186,5352 107,352 0 0	30 33,265 0 0 33,265 0 0 33,265 5,465,662 26,694 0 11,590 1,130,000 0 1,168,284 0 0 1,168,284 0 0 1,168,284 0 0 1,168,284 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131 0 0 19,131 0 0 19,131 5,484,793 0 0 0 30,000 30,000 0 30,000 0 15,063,636	30 19,313 0 0 19,313 0 0 19,313 5,504,106 0 0 0 30,000 30,000 0 30,000 15,093,636	31 19,131 0 0 19,131 0 0 19,131 5,523,237 0 0 0 0 30,000 30,000 0 30,000 15,123,636	365  327,114  0  0  327,114  0  0  327,114  -  182,846  0  34,675  4,520,000  240,000  4,977,521  0  0  4,977,521  -  367,144  0  0  367,144  0  0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  Portage Pit Runoff (m³)  Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) Pumped From Vault Pit (m³) Pumped From Vault Pit (m³) Pumped From Phaser Pit (m³) Total Inflow (m³) Decant - TSS to Wally Lake (m³) Total Outflow (m³) Net Inflow (m³) Pecant - TSS to Wally Lake (m³) Total Outflow (m³) Net Inflow (m³) Pecant - TSS to Wally Lake (m³) Total Outflow (m³) Net Inflow (m³) Pend-of-Month Volume (m³) Net Inflow (m³) Pend-of-Month Volume (m³) Pumped From Vault Pit (m³) Poecant - TSS to Wally Lake (m³) Total Outflow (m³) Poecant - TSS to Wally Lake (m³) Total Outflow (m³) Pumped From Polume (m³) Pumped From Polume (m³)	31 19,131 0 0 19,131 0 0 19,131 5,215,254 0 0 0 0 30,000 0 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	28  19,313 0 0 19,313 0 0 19,313 0 0 19,313 5,234,567 0 0 0 30,000 30,000 0 30,000 0 0 30,000 10,206,115	31 19,131 0 0 19,131 0 0 19,131 5,253,698 0 0 0 0 30,000 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	30  19,131 0 0 19,131 0 19,131 0 19,131 5,272,829 0 0 0 0 30,000 30,000 0 30,000 10,266,115 0 0 0 0 0 1,274,416	31  19,313  0  19,313  0  19,313  0  19,313  5,292,142  0  23,085  0  30,000  53,085  0  0  53,085  10,319,200  0  0  0  0  0  1,274,416	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,352,858 78,539 0 1,130,000 0 1,208,539 0 1,208,539 11,527,739 183,978 0 0 183,978 0 0 183,978 1,458,393	Jul 31 30,242 0 0 30,242 0 30,242 0 30,242 5,383,100 20,985 0 1,130,000 0 1,150,985 0 0 1,150,985 12,678,724 23,105 0 0 23,105 0 0 23,105 1,481,498	31  49,297 0 0 49,297 0 49,297 0 49,297 5,432,397  56,628 0 0 1,130,000 0 1,186,628 0 0 1,186,628 13,865,352  107,352 0 107,352 0 107,352 1,588,850	30 33,265 0 0 33,265 0 0 33,265 5,465,662 26,694 0 11,590 1,130,000 0 1,168,284 0 0 1,168,284 0 0 1,168,284 15,033,636 52,710 0 0 52,710 0 0 1,641,559	31  19,131 0 0 19,131 0 0 19,131 5,484,793 0 0 0 30,000 30,000 0 30,000 15,063,636 0 0 0 0 0 1,641,559	30  19,313 0 0 19,313 0 0 19,313 0 19,313 5,504,106 0 0 30,000 30,000 0 30,000 0 15,093,636 0 0 0 0 0 1,641,559	31 19,131 0 0 19,131 0 0 19,131 5,523,237 0 0 0 0 30,000 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	365  327,114  0  0  327,114  0  0  327,114  0  182,846  0  34,675  4,520,000  240,000  4,977,521  0  0  4,977,521  -  367,144  0  0  367,144  0  0  367,144
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  Portage Pit Runoff (m³)  Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Inflow (m³) Net Inflow (m³) Pumped From Vault Pit (m³) Pumped From Vault Pit (m³) Pumped From Phaser Pit (m³) Total Inflow (m³) Decant - TSS to Wally Lake (m³) Total Outflow (m³) Net Inflow (m³) Pend-of-Month Volume (m³) Pumped From Vault Vault Valte (m³) Pumped From Outle Valte (m³) Pumped From Vault Pit (m³) Pumped From Vault Valte (m³) Total Inflow (m³) Decant - TSS to Wally Lake (m³) Total Outflow (m³) Net Inflow (m³) End-of-Month Volume (m³) Vault Open Pit Runoff (m³)	31 19,131 0 0 19,131 0 19,131 5,215,254 0 0 0 0 30,000 0 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	28  19,313 0 0 19,313 0 19,313 0 19,313 5,234,567 0 0 0 30,000 30,000 0 30,000 10,206,115 0 0 0 0 1,274,416	31 19,131 0 0 19,131 0 0 19,131 5,253,698 0 0 0 0 30,000 0 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	30  19,131 0 0 19,131 0 19,131 0 19,131 5,272,829 0 0 0 0 30,000 0 30,000 0 30,000 0 0 0	31  19,313  0  19,313  0  19,313  0  19,313  5,292,142  0  23,085  0  30,000  53,085  0  0  0  0  0  0  0  1,274,416	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,352,858 78,539 0 1,130,000 0 1,208,539 0 1,208,539 11,527,739 183,978 0 0 183,978 0 0 183,978 1,458,393	Jul 31 30,242 0 0 30,242 0 30,242 0 30,242 5,383,100 20,985 0 1,130,000 0 1,150,985 0 0 1,150,985 12,678,724 23,105 0 0 23,105 0 0 23,105 1,481,498	31  49,297 0 0 49,297 0 49,297 0 49,297 5,432,397  56,628 0 0 1,130,000 0 1,186,628 0 0 1,186,628 13,865,352  107,352 0 0 107,352 0 107,352 1,588,850 47,967	30 33,265 0 0 33,265 0 0 33,265 5,465,662 26,694 0 11,590 1,130,000 0 1,168,284 0 0 1,168,284 15,033,636 52,710 0 0 52,710 0 0 52,710 0 22,611	31  19,131 0 0 19,131 0 0 19,131 5,484,793 0 0 0 30,000 0 30,000 0 30,000 15,063,636 0 0 0 0 0 1,641,559	30  19,313 0 0 19,313 0 0 19,313 0 19,313 5,504,106 0 0 0 30,000 30,000 0 30,000 15,093,636 0 0 0 0 0 1,641,559	31 19,131 0 0 19,131 0 0 19,131 5,523,237 0 0 0 0 30,000 0 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	365  327,114  0  0  327,114  0  0  327,114  0  0  327,114  -  182,846  0  34,675  4,520,000  240,000  4,977,521  0  0  4,977,521  -  367,144  0  0  367,144  0  0  367,144  -  154,880
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  Portage Pit Runoff (m³)  Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) Pumped From Vault Pit (m³) Pumped From Phaser Pit (m³)  Total Inflow (m³)  Pumped From Phaser Pit (m³)  Total Inflow (m³)  Pumped From Vault Pit (m³) Pumped From Phaser Pit (m³)  Total Outflow (m³) Net Inflow (m³) Pended From Phaser Pit (m³)  Total Inflow (m³) Pumped From Vault Pit (m³) Pumped From Outle (m³)  Total Outflow (m³) Net Inflow (m³) Pended From Phaser Pit (m³)  Total Outflow (m³) Pumped From Volume (m³)  Yault Open Pit Runoff (m³) Pumped from Wally Lake (m³)	31  19,131  0  0  19,131  0  19,131  0  19,131  5,215,254  0  0  0  30,000  0  30,000  0  30,000  10,176,115  0  0  0  0  1,274,416	28  19,313 0 0 19,313 0 0 19,313 0 0 19,313 5,234,567 0 0 0 30,000 0 30,000 0 30,000 10,206,115 0 0 0 0 1,274,416 0 0	31  19,131 0 0 19,131 0 0 19,131 5,253,698  0 0 0 30,000 0 30,000 0 30,000 0 0 10,236,115	30  19,131 0 0 19,131 0 0 19,131 5,272,829 0 0 0 0 30,000 0 30,000 0 30,000 0 0 0	31  19,313  0  0  19,313  0  19,313  5,292,142  0  23,085  0  30,000  53,085  0  0  53,085  10,319,200  0  0  0  1,274,416	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 0 1,30,000 0 1,130,000 0 1,208,539 0 1,208,539 11,527,739 183,978 0 0 183,978 0 183,978 1,458,393 66,526 603,783	Jul 31 30,242 0 0 30,242 0 0 30,242 5,383,100 20,985 0 0 1,130,000 0 1,150,985 0 0 1,150,985 12,678,724 23,105 0 0 23,105 0 0 23,105 1,481,498 17,775 1,006,306	31  49,297 0 0 49,297 0 0 49,297 5,432,397  56,628 0 0 1,130,000 0 1,186,628 0 0 1,186,628 13,865,352  107,352 0 0 107,352 0 107,352 1,588,850  47,967 1,360,338	30 33,265 0 0 33,265 0 0 33,265 5,465,662 26,694 0 11,590 1,130,000 0 1,168,284 0 0 1,168,284 15,033,636 52,710 0 0 52,710 0 0 52,710 1,641,559 22,611 1,212,177	31  19,131 0 0 19,131 0 0 19,131 5,484,793 0 0 0 30,000 0 30,000 0 30,000 15,063,636 0 0 0 0 1,641,559	30  19,313 0 0 19,313 0 0 19,313 0 0 19,313 5,504,106 0 0 0 30,000 30,000 0 30,000 15,093,636 0 0 0 0 1,641,559 0 0	31  19,131 0 0 19,131 0 0 19,131 5,523,237  0 0 0 30,000 30,000 0 30,000 15,123,636  0 0 0 0 0 1,641,559	365  327,114  0  0  327,114  0  0  327,114  0  182,846  0  34,675  4,520,000  240,000  4,977,521  0  0  4,977,521  -  367,144  0  0  367,144  0  0  367,144  -  154,880  4,182,604
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  Portage Pit Runoff (m³)  Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) Pumped From Vault Pit (m³) Pumped From Phaser Pit (m³) Total Outflow (m³) Net Inflow (m³) Peacant - TSS to Wally Lake (m³)  Total Outflow (m³) Net Inflow (m³) Pend-of-Month Volume (m³)  Total Outflow (m³) Pumped From Vault Pit (m³) Pumped From Phaser Pit (m³) Total Outflow (m³) Net Inflow (m³) Pumped From Volume (m³)  Total Outflow (m³) Pumped from Wally Lake (m³) Total Inflow (m³) Pumped from Wally Lake (m³)	31 19,131 0 0 19,131 0 19,131 5,215,254 0 0 0 0 30,000 0 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	28  19,313 0 0 19,313 0 19,313 0 19,313 5,234,567 0 0 0 30,000 30,000 0 30,000 10,206,115 0 0 0 0 1,274,416	31 19,131 0 0 19,131 0 0 19,131 5,253,698 0 0 0 0 30,000 0 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	30  19,131 0 0 19,131 0 19,131 0 19,131 5,272,829 0 0 0 0 30,000 0 30,000 0 30,000 0 0 0	31  19,313  0  19,313  0  19,313  0  19,313  5,292,142  0  23,085  0  30,000  53,085  0  0  0  0  0  0  0  1,274,416	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,352,858 78,539 0 1,130,000 0 1,208,539 0 1,208,539 11,527,739 183,978 0 0 183,978 0 0 183,978 1,458,393	Jul 31 30,242 0 0 30,242 0 30,242 0 30,242 5,383,100 20,985 0 1,130,000 0 1,150,985 0 0 1,150,985 12,678,724 23,105 0 0 23,105 0 0 23,105 1,481,498	31  49,297 0 0 49,297 0 49,297 0 49,297 5,432,397  56,628 0 0 1,130,000 0 1,186,628 0 0 1,186,628 13,865,352  107,352 0 0 107,352 0 107,352 1,588,850 47,967	30 33,265 0 0 33,265 0 0 33,265 5,465,662 26,694 0 11,590 1,130,000 0 1,168,284 0 0 1,168,284 15,033,636 52,710 0 0 52,710 0 0 52,710 0 22,611	31  19,131 0 0 19,131 0 0 19,131 5,484,793 0 0 0 30,000 0 30,000 0 30,000 15,063,636 0 0 0 0 0 1,641,559	30  19,313 0 0 19,313 0 0 19,313 0 19,313 5,504,106 0 0 0 30,000 30,000 0 30,000 15,093,636 0 0 0 0 0 1,641,559	31 19,131 0 0 19,131 0 0 19,131 5,523,237 0 0 0 0 30,000 0 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	365  327,114  0  0  327,114  0  0  327,114  0  182,846  0  34,675  4,520,000  240,000  4,977,521  0  0  4,977,521  -  367,144  0  0  367,144  0  0  367,144  -  154,880
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  Portage Pit Runoff (m³)  Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) Pumped From Vault Pit (m³) Pumped From Phaser Pit (m³)  Total Inflow (m³)  Pumped From Phaser Pit (m³)  Total Inflow (m³)  Pumped From Vault Pit (m³) Pumped From Phaser Pit (m³)  Total Outflow (m³) Net Inflow (m³) Pended From Phaser Pit (m³)  Total Inflow (m³) Pumped From Vault Pit (m³) Pumped From Outle (m³)  Total Outflow (m³) Net Inflow (m³) Pended From Phaser Pit (m³)  Total Outflow (m³) Pumped From Volume (m³)  Yault Open Pit Runoff (m³) Pumped from Wally Lake (m³)	31 19,131 0 0 19,131 0 0 19,131 5,215,254 0 0 0 0 30,000 0 30,000 0 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	28  19,313 0 0 19,313 0 0 19,313 0 0 19,313 5,234,567 0 0 0 30,000 0 30,000 0 30,000 10,206,115  0 0 0 1,274,416 0 0 0 0	31  19,131 0 0 19,131 0 0 19,131 5,253,698  0 0 0 30,000 0 30,000 0 30,000 10,236,115	30  19,131 0 0 19,131 0 0 19,131 5,272,829 0 0 0 0 30,000 0 30,000 0 10,266,115 0 0 0 0 1,274,416 0 0 0	31  19,313  0  0  19,313  0  19,313  5,292,142  0  23,085  0  30,000  53,085  0  0  53,085  10,319,200  0  0  0  0  1,274,416	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,352,858 78,539 0 1,130,000 0 1,208,539 0 1,208,539 11,527,739 183,978 0 0 183,978 0 0 183,978 1,458,393 66,526 603,783 670,309	Jul 31 30,242 0 0 30,242 0 30,242 0 30,242 5,383,100 20,985 0 1,130,000 0 1,150,985 0 0 1,150,985 12,678,724 23,105 0 0 23,105 0 23,105 1,481,498 17,775 1,006,306 1,024,081	31  49,297 0 0 49,297 0 0 49,297 5,432,397  56,628 0 0 1,130,000 0 1,186,628 0 0 1,186,628 13,865,352  107,352 0 0 107,352 0 107,352 1,588,850  47,967 1,360,338 1,408,305	30 33,265 0 0 33,265 0 0 33,265 5,465,662 26,694 0 11,590 1,130,000 0 1,168,284 0 0 1,168,284 15,033,636 52,710 0 0 52,710 0 0 52,710 1,641,559 22,611 1,212,177 1,234,788	31  19,131 0 0 19,131 0 0 19,131 5,484,793 0 0 0 30,000 30,000 0 30,000 15,063,636 0 0 0 0 1,641,559 0 0 0 0	30  19,313 0 0 19,313 0 0 19,313 5,504,106 0 0 0 30,000 30,000 0 30,000 15,093,636 0 0 0 0 1,641,559 0 0 0	31  19,131 0 0 19,131 0 0 19,131 5,523,237 0 0 0 30,000 30,000 0 30,000 15,123,636 0 0 0 0 0 1,641,559 0 0 0 0	365  327,114  0  0  327,114  0  0  327,114  0  182,846  0  34,675  4,520,000  240,000  4,977,521  0  0  4,977,521  -  367,144  0  0  367,144  0  0  367,144  -  154,880  4,182,604  4,337,484
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  Portage Pit Runoff (m³)  Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) Pumped From Vault Pit (m³) Pumped From Phaser Pit (m³) Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Rend-of-Month Volume (m³)  Total Outflow (m³) Pumped From Vault Pit (m³) Pumped From Phaser Pit (m³) Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³) Pumped From Wally Lake (m³)  Total Inflow (m³) Pumped from Wally Lake (m³)  Total Inflow (m³) Pumped from Wally Lake (m³)  Total Inflow (m³) Pumped to Vault Attenuation Pond (m³)  Total Inflow (m³) Pumped to Vault Attenuation Pond (m³)  Total Inflow (m³) Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)	31  19,131  0  0  19,131  0  19,131  0  19,131  5,215,254  0  0  0  30,000  0  30,000  10,176,115  0  0  0  0  1,274,416  0  0  0  0	28  19,313 0 0 19,313 0 0 19,313 0 0 19,313 5,234,567 0 0 0 30,000 0 30,000 0 30,000 10,206,115 0 0 0 0 1,274,416 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131 0 0 19,131 0 0 19,131 5,253,698  0 0 0 30,000 30,000 0 30,000 10,236,115  0 0 0 1,274,416 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30  19,131 0 0 19,131 0 0 19,131 5,272,829 0 0 0 0 30,000 30,000 0 10,266,115 0 0 0 1,274,416 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,313  0  0  19,313  0  19,313  5,292,142  0  23,085  0  30,000  53,085  0  0  0  0  0  0  0  0  1,274,416  0  0  0  0  0  0  0  0  0  0  0  0  0	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 0 0 1,130,000 0 1,208,539 0 1,208,539 11,527,739 183,978 0 0 183,978 0 0 183,978 1,458,393 66,526 603,783 670,309 0 670,309	Jul 31 30,242 0 0 0 30,242 0 0 30,242 5,383,100 20,985 0 0 1,130,000 0 1,150,985 0 0 1,150,985 12,678,724 23,105 0 0 23,105 0 0 23,105 1,481,498 17,775 1,006,306 1,024,081 0 0 1,024,081	31  49,297 0 0 49,297 0 0 49,297 5,432,397  56,628 0 0 1,130,000 0 1,186,628 13,865,352  107,352 0 0 107,352 0 107,352 1,588,850  47,967 1,360,338 1,408,305 0	30 33,265 0 0 33,265 0 0 33,265 5,465,662 26,694 0 11,590 1,130,000 0 1,168,284 0 0 1,168,284 15,033,636 52,710 0 0 52,710 0 0 52,710 1,641,559 22,611 1,212,177 1,234,788 0 0 1,234,788	31  19,131 0 0 19,131 0 0 19,131 5,484,793 0 0 0 30,000 30,000 0 30,000 15,063,636 0 0 0 0 1,641,559 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30  19,313 0 0 19,313 0 0 19,313 5,504,106 0 0 0 30,000 30,000 0 30,000 15,093,636 0 0 0 0 1,641,559 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131 0 0 19,131 0 0 19,131 5,523,237  0 0 0 30,000 30,000 0 30,000 15,123,636  0 0 0 0 1,641,559  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	365  327,114  0  0  327,114  0  0  327,114  0  182,846  0  34,675  4,520,000  240,000  4,977,521  0  0  4,977,521  -  367,144  0  0  367,144  0  0  367,144  -  154,880  4,182,604  4,337,484  0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  Portage Pit Runoff (m³)  Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) Pumped From Vault Pit (m³) Pumped From Phaser Pit (m³)  Total Inflow (m³)  Pumped From Phaser Pit (m³)  Total Outflow (m³)  Pumped From Vallt Pit (m³) Pumped From Phaser Pit (m³)  Total Inflow (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Total Outflow (m³) Pumped From Wallt Lake (m³)  Total Inflow (m³) Pumped from Wallt Lake (m³)  Total Inflow (m³) Pumped from Wally Lake (m³)  Total Inflow (m³) Pumped to Vault Attenuation Pond (m³)  Total Inflow (m³) Pumped to Vault Attenuation Pond (m³)  Total Inflow (m³) Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³) Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³) Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³) Pumped to Vault Attenuation Pond (m³)	31  19,131  0  0  19,131  0  19,131  0  19,131  5,215,254  0  0  0  30,000  0  30,000  10,176,115  0  0  0  0  1,274,416  0  0  0  0  0  0  0  0  0  0  0  0  0	28  19,313 0 0 19,313 0 0 19,313 0 0 19,313 5,234,567 0 0 0 30,000 0 30,000 0 30,000 10,206,115 0 0 0 0 1,274,416 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131 0 0 19,131 0 0 19,131 5,253,698  0 0 0 30,000 30,000 0 30,000 10,236,115  0 0 0 1,274,416 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30  19,131 0 0 19,131 0 0 19,131 5,272,829 0 0 0 0 30,000 30,000 0 30,000 10,266,115 0 0 0 1,274,416 0 0 0 0 0	31  19,313  0  0  19,313  0  19,313  5,292,142  0  23,085  0  30,000  53,085  0  0  53,085  10,319,200  0  0  0  1,274,416	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,352,858 78,539 0 1,130,000 0 1,208,539 0 1,208,539 11,527,739 183,978 0 0 183,978 0 0 183,978 1,458,393 66,526 603,783 670,309 0	Jul 31 30,242 0 0 30,242 0 0 30,242 5,383,100 20,985 0 1,130,000 0 1,150,985 0 0 1,150,985 12,678,724 23,105 0 0 23,105 0 0 23,105 1,481,498 17,775 1,006,306 1,024,081 0 0	31  49,297 0 0 49,297 0 0 49,297 5,432,397  56,628 0 0 1,130,000 0 1,186,628 13,865,352  107,352 0 0 107,352 0 107,352 1,588,850  47,967 1,360,338 1,408,305 0 0	30 33,265 0 0 33,265 0 0 33,265 5,465,662 26,694 0 11,590 1,130,000 0 1,168,284 0 0 1,168,284 15,033,636 52,710 0 0 52,710 0 0 52,710 1,641,559 22,611 1,212,177 1,234,788 0 0	31  19,131 0 0 19,131 0 0 19,131 5,484,793 0 0 0 30,000 30,000 0 30,000 15,063,636 0 0 0 0 1,641,559 0 0 0 0 0 0	30  19,313 0 0 19,313 0 0 19,313 5,504,106 0 0 0 30,000 30,000 0 30,000 15,093,636 0 0 0 0 1,641,559 0 0 0 0 0 0	31  19,131 0 0 19,131 0 0 19,131 5,523,237  0 0 0 30,000 30,000 0 30,000 15,123,636  0 0 0 0 1,641,559  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	365  327,114  0  0  327,114  0  0  327,114  0  182,846  0  34,675  4,520,000  240,000  4,977,521  0  0  4,977,521  -  367,144  0  0  367,144  0  0  367,144  0  0  367,144  0  0  0  367,144  0  0  0  367,144  0  0  0  0  367,144  0  0  0  0  0  367,144  0  0  0  0  0  0  0  0  0  0  0  0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) Pumped From Vault Pit (m³) Pumped From Phaser Pit (m³) Total Inflow (m³) Pumped From Vault Pit (m³) Pumped From Phaser Pit (m³) Total Inflow (m³) Decant - TSS to Wally Lake (m³) Total Outflow (m³) Net Inflow (m³) Pender From Vall Pit (m³) Total Outflow (m³) Net Inflow (m³) Pumped From Vall Pit (m³) Total Inflow (m³) Pumped From Wally Lake (m³) Total Outflow (m³) Pumped From Wally Lake (m³) Total Inflow (m³) Pumped to Vault Attenuation Pond (m³) Total Outflow (m³) Pumped to Vault Attenuation Pond (m³) Phaser Open Pit (including Phaser Lake)	31  19,131  0  0  19,131  0  19,131  0  19,131  5,215,254  0  0  0  30,000  0  30,000  10,176,115  0  0  0  0  0  0  0  0  0  0  0  0  0	28  19,313 0 0 19,313 0 0 19,313 5,234,567 0 0 0 30,000 30,000 0 30,000 10,206,115 0 0 0 0 1,274,416 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131 0 0 19,131 0 0 19,131 5,253,698  0 0 0 30,000 30,000 0 30,000 10,236,115  0 0 0 0 1,274,416  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30  19,131 0 0 19,131 0 0 19,131 0 0 19,131 5,272,829 0 0 0 30,000 0 30,000 0 0 30,000 10,266,115 0 0 0 0 0 1,274,416 0 0 0 0 0 0 8,674,967	31  19,313  0  0  19,313  0  19,313  5,292,142  0  23,085  0  30,000  53,085  0  0  0  0  0  0  0  0  0  1,274,416  0  0  0  0  0  0  0  0  0  0  0  0  0	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,352,858 78,539 0 1,130,000 0 1,208,539 0 1,208,539 11,527,739 183,978 0 0 183,978	Jul 31 30,242 0 0 30,242 0 0 30,242 5,383,100 20,985 0 0 1,130,000 0 1,150,985 0 0 1,150,985 12,678,724 23,105 0 0 23,105 0 0 23,105 1,481,498 17,775 1,006,306 1,024,081 0 0 1,024,081 10,369,358	31  49,297  0  0  49,297  0  49,297  5,432,397  56,628  0  1,130,000  0  1,186,628  0  1,186,628  13,865,352  107,352  0  107,352  0  107,352  0  107,352  1,588,850  47,967  1,360,338  1,408,305  0  0  1,408,305  11,777,662	30 33,265 0 0 33,265 0 0 33,265 5,465,662 26,694 0 11,590 1,130,000 0 1,168,284 0 0 1,168,284 15,033,636 52,710 0 0 52,710 0 0 52,710 1,641,559 22,611 1,212,177 1,234,788 0 0 1,234,788 13,012,451	31  19,131 0 0 19,131 0 0 19,131 5,484,793 0 0 0 30,000 30,000 0 30,000 15,063,636 0 0 0 0 1,641,559 0 0 0 1,3012,451	30  19,313  0  0  19,313  0  19,313  0  19,313  5,504,106  0  0  0  30,000  15,093,636  0  0  0  0  1,641,559  0  0  0  13,012,451	31  19,131 0 0 19,131 0 0 19,131 5,523,237  0 0 0 30,000 30,000 0 0 30,000 15,123,636  0 0 0 0 1,641,559  0 0 0 1,641,559	365  327,114  0  0  327,114  0  0  327,114  0  182,846  0  34,675  4,520,000  240,000  4,977,521  0  0  4,977,521  -  367,144  0  0  367,144  -  154,880  4,182,604  4,337,484  0  0  4,337,484  0  0  4,337,484
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit Runoff (m³)  Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) Pumped From Vault Pit (m³) Pumped From Phaser Pit (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  End-of-Month Volume (m³)  Yault Open Pit Runoff (m³) Pumped from Wally Lake (m³)  Total Inflow (m³) Pumped from Wally Lake (m³)  Total Outflow (m³) Pumped from Wally Lake (m³)  Total Outflow (m³) Pumped from Wally Lake (m³)  Total Outflow (m³) Pumped to Vault Attenuation Pond (m³)  Phaser Open Pit (including Phaser Lake) Runoff (m³)	31  19,131  0  0  19,131  0  19,131  0  19,131  5,215,254  0  0  0  30,000  0  30,000  10,176,115  0  0  0  0  0  0  0  0  0  0  0  0  0	28  19,313 0 0 19,313 0 0 19,313 5,234,567  0 0 0 30,000 30,000 0 0 30,000 10,206,115  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131 0 0 19,131 0 0 19,131 5,253,698  0 0 0 30,000 30,000 0 30,000 10,236,115  0 0 0 0 1,274,416  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30  19,131 0 0 19,131 0 0 19,131 0 0 19,131 5,272,829 0 0 0 0 30,000 0 0 30,000 0 0 0 0 0 0 0	31  19,313  0  0  19,313  0  19,313  5,292,142  0  23,085  0  30,000  53,085  0  0  0  0  0  0  0  0  0  1,274,416  0  0  0  0  0  0  0  0  0  0  0  0  0	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,352,858 78,539 0 1,130,000 0 1,208,539 0 1,208,539 11,527,739 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 1,458,393	Jul 31 30,242 0 0 30,242 0 0 30,242 5,383,100 20,985 0 0 1,130,000 0 1,150,985 0 0 1,150,985 12,678,724 23,105 0 0 23,105 0 0 23,105 1,481,498 17,775 1,006,306 1,024,081 0 0 1,024,081 10,369,358	31  49,297  0  0  49,297  0  49,297  5,432,397  56,628  0  1,130,000  0  1,186,628  0  1,186,628  13,865,352  107,352  0  107,352  0  107,352  0  107,352  1,588,850  47,967  1,360,338  1,408,305  0  1,408,305  1,1777,662	30 33,265 0 0 33,265 0 0 33,265 5,465,662 26,694 0 11,590 1,130,000 0 1,168,284 0 0 1,168,284 15,033,636 52,710 0 0 52,710 0 0 52,710 1,641,559 22,611 1,212,177 1,234,788 0 0 1,234,788 13,012,451	31  19,131 0 0 19,131 0 0 19,131 5,484,793 0 0 0 0 30,000 0 30,000 0 15,063,636 0 0 0 0 1,641,559 0 0 0 1,3012,451	30  19,313  0  0  19,313  0  19,313  0  0  19,313  5,504,106  0  0  0  30,000  30,000  15,093,636  0  0  0  0  1,641,559  0  0  0  13,012,451	31  19,131 0 0 19,131 0 0 19,131 5,523,237  0 0 0 30,000 30,000 0 30,000 15,123,636  0 0 0 0 1,641,559  0 0 0 1,641,559	365  327,114  0  0  327,114  0  0  327,114  0  182,846  0  34,675  4,520,000  240,000  4,977,521  0  0  4,977,521  -  367,144  0  0  367,144  0  0  367,144  -  154,880  4,182,604  4,337,484  0  0  4,337,484
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) Pumped From Vault Pit (m³) Pumped From Phaser Pit (m³) Total Inflow (m³) Pumped From Vault Pit (m³) Pumped From Phaser Pit (m³) Total Inflow (m³) Decant - TSS to Wally Lake (m³) Total Outflow (m³) Net Inflow (m³) Pender From Vall Pit (m³) Total Outflow (m³) Net Inflow (m³) Pumped From Vall Pit (m³) Total Inflow (m³) Pumped From Wally Lake (m³) Total Outflow (m³) Pumped From Wally Lake (m³) Total Inflow (m³) Pumped to Vault Attenuation Pond (m³) Total Outflow (m³) Pumped to Vault Attenuation Pond (m³) Phaser Open Pit (including Phaser Lake)	31  19,131  0  0  19,131  0  19,131  0  19,131  5,215,254  0  0  0  30,000  0  30,000  10,176,115  0  0  0  0  0  0  0  0  0  0  0  0  0	28  19,313 0 0 19,313 0 0 19,313 5,234,567 0 0 0 30,000 30,000 0 30,000 10,206,115 0 0 0 0 1,274,416 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131 0 0 19,131 0 0 19,131 5,253,698  0 0 0 30,000 30,000 0 30,000 10,236,115  0 0 0 0 1,274,416  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30  19,131 0 0 19,131 0 0 19,131 0 0 19,131 5,272,829 0 0 0 30,000 0 30,000 0 0 30,000 10,266,115 0 0 0 0 0 1,274,416 0 0 0 0 0 0 8,674,967	31  19,313  0  0  19,313  0  19,313  5,292,142  0  23,085  0  30,000  53,085  0  0  0  0  0  0  0  0  0  1,274,416  0  0  0  0  0  0  0  0  0  0  0  0  0	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,352,858 78,539 0 1,130,000 0 1,208,539 0 1,208,539 11,527,739 183,978 0 0 183,978	Jul 31 30,242 0 0 30,242 0 0 30,242 5,383,100 20,985 0 0 1,130,000 0 1,150,985 0 0 1,150,985 12,678,724 23,105 0 0 23,105 0 0 23,105 1,481,498 17,775 1,006,306 1,024,081 0 0 1,024,081 10,369,358	31  49,297  0  0  49,297  0  49,297  5,432,397  56,628  0  1,130,000  0  1,186,628  0  1,186,628  13,865,352  107,352  0  107,352  0  107,352  0  107,352  1,588,850  47,967  1,360,338  1,408,305  0  0  1,408,305  11,777,662	30 33,265 0 0 33,265 0 0 33,265 5,465,662 26,694 0 11,590 1,130,000 0 1,168,284 0 0 1,168,284 15,033,636 52,710 0 0 52,710 0 0 52,710 1,641,559 22,611 1,212,177 1,234,788 0 0 1,234,788 13,012,451	31  19,131 0 0 19,131 0 0 19,131 5,484,793 0 0 0 30,000 30,000 0 30,000 15,063,636 0 0 0 0 1,641,559 0 0 0 1,3012,451	30  19,313  0  0  19,313  0  19,313  0  19,313  5,504,106  0  0  0  30,000  15,093,636  0  0  0  0  1,641,559  0  0  0  13,012,451	31  19,131 0 0 19,131 0 0 19,131 5,523,237  0 0 0 30,000 30,000 0 0 30,000 15,123,636  0 0 0 0 1,641,559  0 0 0 1,641,559	365  327,114  0  0  327,114  0  0  327,114  0  182,846  0  34,675  4,520,000  240,000  4,977,521  0  0  4,977,521  -  367,144  0  0  367,144  -  154,880  4,182,604  4,337,484  0  0  4,337,484  0  0  4,337,484  -  171,470
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) Pumped From Vault Pit (m³) Pumped From Phaser Pit (m³) Total Inflow (m³) Pumped From Vault Pit (m³) Total Inflow (m³) Pumped From Vault Pit (m³) Total Inflow (m³) Net Inflow (m³) Pumped From Vault Pit (m³) Total Inflow (m³) Pumped From Vault Pit (m³) Total Inflow (m³) Net Inflow (m³) Pumped From Vallt Pit (m³) Total Inflow (m³) Pumped From Vallt Pit (m³) Total Inflow (m³) Pumped From Vallt Pit (m³) Total Inflow (m³) Pumped from Wally Lake (m³) Total Inflow (m³) Pumped from Pit (including Phaser Lake) Runoff (m³) Total Inflow (m³)	31  19,131  0  0  19,131  0  19,131  0  0  19,131  5,215,254  0  0  0  30,000  30,000  0  0  0  0  0  0  0  0  0  0  0	28  19,313 0 0 19,313 0 0 19,313 5,234,567  0 0 0 30,000 30,000 0 0 30,000 10,206,115  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131 0 0 19,131 0 0 19,131 5,253,698  0 0 0 30,000 0 30,000 0 0 30,000 10,236,115  0 0 0 0 1,274,416  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30  19,131 0 0 19,131 0 0 19,131 0 0 19,131 5,272,829 0 0 0 30,000 0 0 30,000 0 0 0 0 0 0 0 0	31  19,313  0  0  19,313  0  19,313  5,292,142  0  23,085  0  30,000  53,085  0  0  0  0  0  0  0  0  0  0  0  0  0	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,352,858 78,539 0 1,130,000 0 1,208,539 0 1,208,539 11,527,739 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 1,458,393	Jul 31 30,242 0 0 30,242 0 0 30,242 5,383,100 20,985 0 0 1,130,000 0 1,150,985 0 0 1,150,985 12,678,724 23,105 0 0 23,105 0 0 23,105 1,481,498 17,775 1,006,306 1,024,081 0 0 1,024,081 10,369,358	31  49,297  0  0  49,297  0  49,297  5,432,397  56,628  0  1,130,000  0  1,186,628  0  1,186,628  13,865,352  107,352  0  107,352  0  107,352  0  107,352  1,588,850  47,967  1,360,338  1,408,305  0  1,408,305  1,408,305  11,777,662	30 33,265 0 0 33,265 0 0 33,265 5,465,662 26,694 0 11,590 1,130,000 0 1,168,284 0 0 1,168,284 15,033,636 52,710 0 0 52,710 0 0 52,710 1,641,559 22,611 1,212,177 1,234,788 0 0 1,234,788 13,012,451	31  19,131 0 0 19,131 0 0 19,131 5,484,793 0 0 0 0 30,000 0 30,000 0 0 30,000 15,063,636 0 0 0 0 0 1,641,559 0 0 0 13,012,451	30  19,313  0  0  19,313  0  19,313  0  0  19,313  5,504,106  0  0  0  30,000  30,000  15,093,636  0  0  0  0  0  1,641,559  0  0  0  13,012,451	31  19,131 0 0 19,131 0 0 19,131 5,523,237  0 0 0 30,000 30,000 0 30,000 15,123,636  0 0 0 0 1,641,559  0 0 0 1,641,559	365  327,114  0  0  327,114  0  0  327,114  0  0  327,114  -  182,846  0  34,675  4,520,000  240,000  4,977,521  0  0  4,977,521  -  367,144  0  0  367,144  0  0  367,144  -  154,880  4,182,604  4,337,484  0  0  4,337,484  0  0  171,470
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³) Total Inflow (m³) Pumped to Attenuation Pond (m³) Net Inflow (m³) Net Inflow (m³) Sewage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³) Total Inflow (m³) Pumped most Attenuation Pond (m³) Net Inflow (m³) Net Inflow (m³) Pumped From Vault Pit (m³) Pumped From Phaser Pit (m³) Pumped From Phaser Pit (m³) Decant - TSS to Wally Lake (m³) Total Outflow (m³) Net Inflow (m³) Net Inflow (m³) Pumped From Wallt Pit (m³) Pumped From Phaser Pit (m³) Total Outflow (m³) Net Inflow (m³) Pecant - TSS to Wally Lake (m³) Total Outflow (m³) Net Inflow (m³) Pumped from Wally Lake (m³) Total Inflow (m³) Pumped to Vault Attenuation Pond (m³) Total Outflow (m³) Net Inflow (m³) Pumped to Vault Attenuation Pond (m³) Total Inflow (m³) Phaser Open Pit (including Phaser Lake) Runoff (m³) Total Inflow (m³) Pumped to Vault Attenuation Pond (m³)	31  19,131  0  0  19,131  0  19,131  0  19,131  5,215,254  0  0  0  30,000  0  30,000  10,176,115  0  0  0  0  0  0  0  0  0  0  0  0  0	28  19,313 0 0 19,313 0 0 19,313 5,234,567  0 0 0 30,000 30,000 0 0 30,000 10,206,115  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131 0 0 19,131 0 0 19,131 5,253,698  0 0 0 30,000 30,000 0 0 30,000 10,236,115  0 0 0 0 1,274,416  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30  19,131 0 0 19,131 0 0 19,131 0 0 19,131 5,272,829 0 0 0 0 30,000 0 0 30,000 0 0 0 0 0 0 0	31  19,313  0  0  19,313  0  0  19,313  5,292,142  0  23,085  0  30,000  53,085  0  0  0  0  0  0  0  0  0  0  0  0  0	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,352,858 78,539 0 1,130,000 0 1,208,539 0 1,208,539 11,527,739 183,978 0 0 183,978	Jul 31 30,242 0 0 30,242 0 0 30,242 0 0 30,242 5,383,100 20,985 0 0 1,130,000 0 1,150,985 0 0 1,150,985 12,678,724 23,105 0 0 23,105 0 0 23,105 1,481,498 17,775 1,006,306 1,024,081 0 0 1,024,081 10,369,358	31  49,297  0  0  49,297  0  49,297  5,432,397  56,628  0  1,130,000  0  1,186,628  0  1,186,628  13,865,352  107,352  0  107,352  0  107,352  0  107,352  1,588,850  47,967  1,360,338  1,408,305  0  1,408,305  1,1777,662  53,105  0  0	30 33,265 0 0 33,265 0 0 33,265 5,465,662 26,694 0 11,590 1,130,000 0 1,168,284 0 0 1,168,284 15,033,636 52,710 0 0 52,710 0 0 52,710 1,641,559 22,611 1,212,177 1,234,788 0 0 1,234,788 13,012,451 25,033 0	31  19,131 0 0 19,131 0 0 19,131 5,484,793 0 0 0 0 30,000 30,000 0 0 30,000 15,063,636 0 0 0 0 1,641,559 0 0 0 1,3012,451	30  19,313  0  0  19,313  0  19,313  0  19,313  5,504,106  0  0  0  30,000  30,000  15,093,636  0  0  0  0  1,641,559  0  0  0  13,012,451	31  19,131 0 0 19,131 0 0 19,131 5,523,237  0 0 0 30,000 30,000 0 0 30,000 15,123,636  0 0 0 0 1,641,559  0 0 0 1,641,559	365  327,114 0 0 327,114 0 0 327,114 0 0 327,114 - 182,846 0 34,675 4,520,000 240,000 4,977,521 0 0 4,977,521 - 367,144 0 0 0 367,144 - 154,880 4,182,604 4,337,484 0 0 0 4,337,484 0 0 171,470 171,470 0

D3 **AGNICO EAGLE** 

						Vea	r 2022						
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ANNUAL TOTAL
No. of days	31	<b>28</b>	<b>31</b>	30	<b>31</b>	30	31	31	<b>30</b>	31	30	31	365
Tailings (tonnes): Cummulative Tailings (tonnes):	66,644 36,153,676	36,153,676	36,153,676	0 36,153,676	36,153,676	0 36,153,676	0 36,153,676	0 36,153,676	36,153,676	0 36,153,676	0 36,153,676	0 36,153,676	66,644 -
Cummulative Tailings (m3) - North Cell	16,178,977	16,178,977	16,178,977	16,178,977	16,178,977	16,178,977	16,178,977	16,178,977	16,178,977	16,178,977	16,178,977	16,178,977	-
Cummulative Tailings (m3) - South Cell	12,110,880	12,344,213	12,602,547	12,852,547	13,063,910	13,063,910	13,063,910	13,063,910	13,063,910	13,275,274	13,525,274	13,783,607	-
North Cell (TSF) Starting Pond Volume (m³)	0	0	0	0	0	0	0	0	0	0	0	0	_
Water from tailings slurry (m <sup>3</sup> )	0	0	0	0	0	0	0	0	0	0	0	0	0
Runoff (m³)	0	0	0	0	0	76,665	7,700	42,862	21,238	-13	0	0	148,451
Total Inflow (m³)	0	0	0	0	0	76,665	7,700	42,862	21,238	-13	0	0	148,451
Transfer to South Cell (m³)	0	0	0	0	0	76,665	7,700	42,862	21,238	-13	0	0	148,451
Reclaim water to the mill (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Outflow (m³)	0	0	0	0	0	76,665	7,700	42,862	21,238	-13	0	0	148,451
Net Inflow (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
End-of-Month Volume (m³)	0	0	0	0	0	0	0	0	0	0	0	0	-
South Cell (TSF) Pumped From Portage Pit (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Runoff (m <sup>3</sup> )	0	0	0	0	0	40,982	-10,260	8,951	5,933	0	0	0	45,605
Transfer from North Cell (m³)	0	0	0	0	0	76,665	7,700	42,862	21,238	-13	0	0	148,451
Water from tailings slurry (m³)	24,703	0	0	0	0	0	0	0	0	0	0	0	24,703
Total Inflow (m <sup>3</sup> )	24,703	0	0	0	0	117,646	-2,560	51,812	27,171	-13	0	0	218,759
Reclaim water to the mill (m <sup>3</sup> )	63,321	0	0	0	0	0	0	0	0	0	0	0	63,321
Transfer to Portage Pit (m³)	0	0	0	0	0	267,646	184,637	51,812	36,068	0	0	0	540,163
Total Outflow (m³)	63,321	0	0	0	0	267,646	184,637	51,812	36,068	0	0	0	603,484
Net Inflow (m³)	-38,618	0	0	0	0	-150,000	-187,197	0	-8,897	-13	0	0	-384,725
End-of-Month Volume (m³)	346,107	346,107	346,107	346,107	346,107	196,107	8,910	8,910	13	0	0	0	-
Mill/Camp  Ore water (m³)	653	0	0	0	0	0	0	0	0	0	0	0	653
Reclaim water (m <sup>3</sup> )	63,321	0	0	0	0	0	0	0	0	0	0	0	63,321
Freshwater from Third Portage Lake (m <sup>3</sup> )	186,000	2,688	2,976	2,880	2,976	2,880	2,976	2,976	2,880	2,976	2,880	2,976	218,064
Total Inflow (m <sup>3</sup> )	249,974	2,688	2,976	2,880	2,976	2,880	2,976	2,976	2,880	2,976	2,880	2,976	282,038
Freshwater for camp purposes (m³)	2,945	2,688	2,976	2,880	2,976	2,880	2,976	2,976	2,880	2,976	2,880	2,976	35,009
Slurry water (m³)	247,029	0	0	0	0	0	0	0	0	0	0	0	247,029
Total Outflow (m³)	249,974	2,688	2,976	2,880	2,976	2,880	2,976	2,976	2,880	2,976	2,880	2,976	282,038
Net Inflow (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Reclaim water pumping rate (m³/hr)	85	0	0	0	0	0	0	0	0	0	0	0	-
Freshwater pumping rate (m³/hr) TSF Water Balance	250	4	4	4	4	4	4	4	4	4	4	4	
Slurry water (m³)	247,029	0	0	0	0	0	0	0	0	0	0	0	247,029
Tonnage destination (1=100% SC, 0=100% NC)	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
NC Tailings water/ice entrampment (%)	90%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
SC Tailings water/ice entrampment (%)	90%	0%	0%	0%	0%	0%	0%	0%	0% 0	0%	0%	0%	•
Slurry water returned to the NC pond (m <sup>3</sup> )  Slurry water returned to the SC pond (m <sup>3</sup> )	0 24,703	0	0	0	0	0	0	0	0	0	0	0	0 24,703
Sturry water returned to the SC pond (m.)	24,703	U	U	U	U	U	U	U	U	U	U	U	24,703
						V	. 2022						
						Yea	r 2022						ANNULAL TOTAL
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ANNUAL TOTAL
No. of days	Jan 31	Feb 28	Mar 31	Apr 30	May 31			Aug 31	Sep 30	Oct 31	Nov 30	Dec 31	ANNUAL TOTAL 365
Goose Pit (ATP)				_		Jun	Jul	_					
Goose Pit (ATP) Runoff (m³)	31	28	31	30	31	Jun 30	Jul 31	31	30	31	30	31	365
Goose Pit (ATP)	<b>31</b> 19,131	<b>28</b> 19,313	<b>31</b> 19,131	<b>30</b> 19,131	<b>31</b> 19,313	Jun 30 60,716	Jul 31 30,242	<b>31</b> 49,297	<b>30</b> 33,265	<b>31</b> 19,131	<b>30</b> 19,313	<b>31</b> 19,131	365 327,114
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³)	19,131 0	19,313 0	<b>31</b> 19,131 0	<b>30</b> 19,131 0	<b>31</b> 19,313 0	Jun 30 60,716 0	Jul 31 30,242 0	<b>31</b> 49,297 0	33,265 0	19,131 0	<b>30</b> 19,313 0	19,131 0	365 327,114 0
Goose Pit (ATP)  Runoff (m³)  Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)	19,131 0 0	19,313 0 0	19,131 0 0	19,131 0 0	19,313 0 0	Jun 30 60,716 0	31 30,242 0 0	<b>31</b> 49,297 0 0	33,265 0	19,131 0 0	19,313 0 0	19,131 0 0	365 327,114 0 0
Goose Pit (ATP)  Runoff (m³)  Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)	19,131 0 0 19,131 0 19,131 0	19,313 0 0 19,313 0 0	19,131 0 0 19,131 0 0	19,131 0 0 19,131 0 0	31 19,313 0 0 19,313 0 0	30 60,716 0 0 60,716 0 0	30,242 0 0 30,242 0 0	31 49,297 0 0 49,297 0 0	33,265 0 0 33,265 0 0	19,131 0 0 19,131 0 0	19,313 0 0 19,313 0	19,131 0 0 19,131 0 0	365 327,114 0 0 327,114 0 0
Goose Pit (ATP)  Runoff (m³)  Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)	31 19,131 0 0 19,131 0 0 19,131	19,313 0 0 19,313 0 0 19,313	31 19,131 0 0 19,131 0 0 19,131	19,131 0 0 19,131 0 0 19,131	31 19,313 0 0 19,313 0 0 19,313	30 60,716 0 0 60,716 0 0 60,716	30,242 0 0 30,242 0 0 30,242 0 0	31 49,297 0 0 49,297 0 0 49,297	33,265 0 0 33,265 0 0 33,265	19,131 0 0 19,131 0 0 19,131	19,313 0 0 19,313 0 0 19,313	19,131 0 0 19,131 0 0 19,131	365 327,114 0 0 327,114 0
Goose Pit (ATP)  Runoff (m³)  Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)	19,131 0 0 19,131 0 19,131 0	19,313 0 0 19,313 0 0	19,131 0 0 19,131 0 0	19,131 0 0 19,131 0 0	31 19,313 0 0 19,313 0 0	30 60,716 0 0 60,716 0 0	30,242 0 0 30,242 0 0	31 49,297 0 0 49,297 0 0	33,265 0 0 33,265 0 0	19,131 0 0 19,131 0 0	19,313 0 0 19,313 0	19,131 0 0 19,131 0 0	365 327,114 0 0 327,114 0 0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) End-of-Month Volume (m³)  Portage Pit	31 19,131 0 0 19,131 0 0 19,131 5,542,368	28 19,313 0 0 19,313 0 0 19,313 5,561,681	31 19,131 0 0 19,131 0 0 19,131	19,131 0 0 19,131 0 0 19,131	31 19,313 0 0 19,313 0 0 19,313	Jun 30 60,716 0 0 60,716 0 0 60,716 5,679,972	30,242 0 0 30,242 0 0 30,242 0 0 30,242 5,710,214	31 49,297 0 0 49,297 0 0 49,297 5,759,511	33,265 0 0 33,265 0 0 33,265 5,792,776	19,131 0 0 19,131 0 0 19,131	19,313 0 0 19,313 0 0 19,313	19,131 0 0 19,131 0 0 19,131	365  327,114  0  0  327,114  0  327,114  -
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) End-of-Month Volume (m³)  Portage Pit Runoff (m³)	31 19,131 0 0 19,131 0 0 19,131	19,313 0 0 19,313 0 0 19,313	31 19,131 0 0 19,131 0 0 19,131 5,580,812	19,131 0 0 19,131 0 0 19,131 0 0 19,131 5,599,943	31 19,313 0 0 19,313 0 0 19,313 5,619,256	30 60,716 0 0 60,716 0 0 60,716	30,242 0 0 30,242 0 0 30,242 0 0	31 49,297 0 0 49,297 0 0 49,297	33,265 0 0 33,265 0 0 33,265	31 19,131 0 0 19,131 0 0 19,131 5,811,907	19,313 0 0 19,313 0 19,313 0 19,313 5,831,220	31 19,131 0 0 19,131 0 0 19,131 5,850,351	365 327,114 0 0 327,114 0 0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) End-of-Month Volume (m³)  Portage Pit	31 19,131 0 0 19,131 0 0 19,131 5,542,368	28 19,313 0 0 19,313 0 0 19,313 5,561,681	31 19,131 0 0 19,131 0 0 19,131 5,580,812	19,131 0 0 19,131 0 0 19,131 0 0 19,131 5,599,943	31 19,313 0 0 19,313 0 0 19,313 5,619,256	Jun 30 60,716 0 0 60,716 0 0 60,716 5,679,972	Jul 31 30,242 0 0 30,242 0 0 30,242 5,710,214	31 49,297 0 0 49,297 0 0 49,297 5,759,511	33,265 0 0 33,265 0 0 33,265 5,792,776	31 19,131 0 0 19,131 0 0 19,131 5,811,907	30 19,313 0 0 19,313 0 0 19,313 5,831,220	31 19,131 0 0 19,131 0 0 19,131 5,850,351	365  327,114  0  0  327,114  0  327,114  -  182,846
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) End-of-Month Volume (m³)  Portage Pit Runoff (m³) Transfer from SC (m³)	31 19,131 0 0 19,131 0 0 19,131 5,542,368	28 19,313 0 0 19,313 0 0 19,313 5,561,681	31 19,131 0 0 19,131 0 0 19,131 5,580,812	19,131 0 0 19,131 0 0 19,131 0 0 19,131 5,599,943	31 19,313 0 0 19,313 0 0 19,313 5,619,256	Jun 30 60,716 0 0 60,716 0 0 60,716 5,679,972 78,539 267,646	30,242 0 0 30,242 0 0 30,242 5,710,214 20,985 184,637	31 49,297 0 0 49,297 0 0 49,297 5,759,511 56,628 51,812	30 33,265 0 0 33,265 0 0 33,265 5,792,776 26,694 36,068	31 19,131 0 0 19,131 0 0 19,131 5,811,907	30 19,313 0 0 19,313 0 0 19,313 5,831,220	31 19,131 0 0 19,131 0 0 19,131 5,850,351	365  327,114  0  0  327,114  0  327,114  -  182,846  540,163
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) End-of-Month Volume (m³)  Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³)	31 19,131 0 0 19,131 0 0 19,131 5,542,368 0 0 0 0 30,000	28 19,313 0 0 19,313 0 0 19,313 5,561,681 0 0 0 0 30,000	31 19,131 0 0 19,131 0 0 19,131 5,580,812 0 0 0 0 30,000	19,131 0 0 19,131 0 0 19,131 5,599,943 0 0 0 0 30,000	31 19,313 0 0 19,313 0 0 19,313 5,619,256 0 0 23,085 0 30,000	Jun 30 60,716 0 0 60,716 0 0 60,716 5,679,972 78,539 267,646 0 1,130,000	30,242 0 0 30,242 0 0 30,242 0 0 30,242 5,710,214 20,985 184,637 0 1,130,000 0	31 49,297 0 0 49,297 0 0 49,297 5,759,511 56,628 51,812 0 1,130,000 0	30 33,265 0 0 33,265 0 0 33,265 5,792,776 26,694 36,068 11,590 1,130,000 0	31 19,131 0 0 19,131 0 0 19,131 5,811,907 0 0 0 0 30,000	30 19,313 0 0 19,313 0 0 19,313 5,831,220 0 0 0 0 30,000	31 19,131 0 0 19,131 0 0 19,131 5,850,351 0 0 0 0 30,000	365  327,114  0  0  327,114  0  327,114  -  182,846  540,163  34,675  4,520,000  240,000
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) End-of-Month Volume (m³) Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³)	31 19,131 0 0 19,131 0 0 19,131 5,542,368 0 0 0 0 30,000 30,000	28 19,313 0 0 19,313 0 0 19,313 5,561,681 0 0 0 0 30,000 30,000	31 19,131 0 0 19,131 0 0 19,131 5,580,812 0 0 0 0 30,000 30,000	19,131 0 0 19,131 0 0 19,131 5,599,943 0 0 0 0 30,000 30,000	31 19,313 0 0 19,313 0 0 19,313 5,619,256 0 0 23,085 0 30,000 53,085	Jun 30 60,716 0 0 60,716 0 0 60,716 5,679,972 78,539 267,646 0 1,130,000 0	30,242 0 0 30,242 0 0 30,242 5,710,214 20,985 184,637 0 1,130,000 0 1,335,622	31 49,297 0 0 49,297 0 0 49,297 5,759,511 56,628 51,812 0 1,130,000 0 1,238,440	30 33,265 0 0 33,265 0 0 33,265 5,792,776 26,694 36,068 11,590 1,130,000 0 1,204,352	31 19,131 0 0 19,131 0 0 19,131 5,811,907 0 0 0 0 30,000 30,000	30 19,313 0 0 19,313 0 0 19,313 5,831,220 0 0 0 0 30,000 30,000	31 19,131 0 0 19,131 0 0 19,131 5,850,351 0 0 0 0 30,000 30,000	365  327,114  0  0  327,114  0  327,114  -  182,846  540,163  34,675  4,520,000  240,000  5,517,684
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) End-of-Month Volume (m³) Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)	31 19,131 0 0 19,131 0 0 19,131 5,542,368 0 0 0 0 30,000 0	28  19,313 0 0 19,313 0 19,313 0 19,313 5,561,681  0 0 0 30,000 30,000 0	31 19,131 0 0 19,131 0 0 19,131 5,580,812 0 0 0 0 30,000 0	19,131 0 0 19,131 0 0 19,131 5,599,943 0 0 0 0 30,000 0	31 19,313 0 0 19,313 0 0 19,313 5,619,256 0 23,085 0 30,000 53,085 0	Jun 30 60,716 0 0 60,716 0 0 60,716 5,679,972 78,539 267,646 0 1,130,000 0 1,476,185 0	Jul 31 30,242 0 0 30,242 0 0 30,242 5,710,214 20,985 184,637 0 1,130,000 0 1,335,622 0	31 49,297 0 0 49,297 0 0 49,297 5,759,511 56,628 51,812 0 1,130,000 0 1,238,440 0	33,265 0 0 33,265 0 0 33,265 5,792,776 26,694 36,068 11,590 1,130,000 0 1,204,352 0	31 19,131 0 0 19,131 0 0 19,131 5,811,907 0 0 0 0 0 30,000 0	30 19,313 0 0 19,313 0 0 19,313 5,831,220 0 0 0 0 0 30,000 0	31 19,131 0 0 19,131 0 0 19,131 5,850,351 0 0 0 0 30,000 0	365  327,114  0  0  327,114  0  327,114  -  182,846  540,163  34,675  4,520,000  240,000  5,517,684  0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) End-of-Month Volume (m³) Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³)	31 19,131 0 0 19,131 0 0 19,131 5,542,368 0 0 0 0 30,000 0 0	28  19,313 0 0 19,313 0 0 19,313 0 19,313 5,561,681  0 0 0 30,000 30,000 0 0	31 19,131 0 0 19,131 0 0 19,131 5,580,812 0 0 0 30,000 0 0	19,131 0 0 19,131 0 0 19,131 0 0 19,131 5,599,943 0 0 0 0 30,000 0 0	31 19,313 0 0 19,313 0 0 19,313 5,619,256 0 23,085 0 30,000 53,085 0	Jun 30 60,716 0 0 60,716 0 0 60,716 5,679,972 78,539 267,646 0 1,130,000 0 1,476,185 0	Jul 31 30,242 0 0 30,242 0 0 30,242 5,710,214 20,985 184,637 0 1,130,000 0 1,335,622 0	31 49,297 0 0 49,297 0 0 49,297 5,759,511 56,628 51,812 0 1,130,000 0 1,238,440 0	30 33,265 0 0 33,265 0 0 33,265 5,792,776 26,694 36,068 11,590 1,130,000 0 1,204,352 0	31 19,131 0 0 19,131 0 0 19,131 5,811,907 0 0 0 0 30,000 0 0	30 19,313 0 0 19,313 0 0 19,313 5,831,220 0 0 0 0 30,000 0 0	31 19,131 0 0 19,131 0 0 19,131 5,850,351 0 0 0 0 30,000 0 0	365  327,114  0  0  327,114  0  327,114  0  327,114  -  182,846  540,163  34,675  4,520,000  240,000  5,517,684  0  0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) End-of-Month Volume (m³) Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)	31 19,131 0 0 19,131 0 0 19,131 5,542,368 0 0 0 0 30,000 0 30,000 0 30,000	28  19,313 0 0 19,313 0 0 19,313 0 0 19,313 5,561,681  0 0 30,000 30,000 0 30,000 0 30,000	31 19,131 0 0 19,131 0 0 19,131 5,580,812 0 0 0 30,000 0 30,000 0 30,000	19,131 0 0 19,131 0 0 19,131 0 0 19,131 5,599,943 0 0 0 0 30,000 0 30,000 0 30,000	31 19,313 0 0 19,313 0 0 19,313 5,619,256 0 23,085 0 30,000 53,085 0 0 53,085	Jun 30 60,716 0 0 60,716 0 0 60,716 5,679,972 78,539 267,646 0 1,130,000 0 1,476,185 0	Jul 31 30,242 0 0 30,242 0 0 30,242 5,710,214 20,985 184,637 0 1,130,000 0 1,335,622 0 0	31 49,297 0 0 49,297 0 0 49,297 5,759,511 56,628 51,812 0 1,130,000 0 1,238,440 0	30 33,265 0 0 33,265 0 0 33,265 5,792,776 26,694 36,068 11,590 1,130,000 0 1,204,352 0 1,204,352	31 19,131 0 0 19,131 0 0 19,131 5,811,907 0 0 0 30,000 0 30,000 0 30,000	30 19,313 0 0 19,313 0 0 19,313 5,831,220 0 0 0 30,000 0 30,000 0 30,000	31 19,131 0 0 19,131 0 0 19,131 5,850,351 0 0 0 30,000 0 30,000 0 30,000	365  327,114  0  0  327,114  0  327,114  -  182,846  540,163  34,675  4,520,000  240,000  5,517,684  0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) End-of-Month Volume (m³) Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  Ret Inflow (m³) End-of-Month Volume (m³)	31 19,131 0 0 19,131 0 0 19,131 5,542,368 0 0 0 0 30,000 0 0	28  19,313 0 0 19,313 0 0 19,313 0 19,313 5,561,681  0 0 0 30,000 30,000 0 0	31 19,131 0 0 19,131 0 0 19,131 5,580,812 0 0 0 30,000 0 0	19,131 0 0 19,131 0 0 19,131 0 0 19,131 5,599,943 0 0 0 0 30,000 0 0	31 19,313 0 0 19,313 0 0 19,313 5,619,256 0 23,085 0 30,000 53,085 0	Jun 30 60,716 0 0 60,716 0 0 60,716 5,679,972 78,539 267,646 0 1,130,000 0 1,476,185 0	Jul 31 30,242 0 0 30,242 0 0 30,242 5,710,214 20,985 184,637 0 1,130,000 0 1,335,622 0	31 49,297 0 0 49,297 0 0 49,297 5,759,511 56,628 51,812 0 1,130,000 0 1,238,440 0	30 33,265 0 0 33,265 0 0 33,265 5,792,776 26,694 36,068 11,590 1,130,000 0 1,204,352 0	31 19,131 0 0 19,131 0 0 19,131 5,811,907 0 0 0 0 30,000 0 0	30 19,313 0 0 19,313 0 0 19,313 5,831,220 0 0 0 0 30,000 0 0	31 19,131 0 0 19,131 0 0 19,131 5,850,351 0 0 0 0 30,000 0 0	365  327,114  0  0  327,114  0  327,114  0  327,114  -  182,846  540,163  34,675  4,520,000  240,000  5,517,684  0  0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) End-of-Month Volume (m³) Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)	31 19,131 0 0 19,131 0 0 19,131 5,542,368 0 0 0 0 30,000 0 30,000 0 30,000	28  19,313 0 0 19,313 0 0 19,313 0 0 19,313 5,561,681  0 0 30,000 30,000 0 30,000 0 30,000	31 19,131 0 0 19,131 0 0 19,131 5,580,812 0 0 0 30,000 0 30,000 0 30,000	19,131 0 0 19,131 0 0 19,131 0 0 19,131 5,599,943 0 0 0 0 30,000 0 30,000 0 30,000	31 19,313 0 0 19,313 0 0 19,313 5,619,256 0 23,085 0 30,000 53,085 0 0 53,085	Jun 30 60,716 0 0 60,716 0 0 60,716 5,679,972 78,539 267,646 0 1,130,000 0 1,476,185 0	Jul 31 30,242 0 0 30,242 0 0 30,242 5,710,214 20,985 184,637 0 1,130,000 0 1,335,622 0 0	31 49,297 0 0 49,297 0 0 49,297 5,759,511 56,628 51,812 0 1,130,000 0 1,238,440 0	30 33,265 0 0 33,265 0 0 33,265 5,792,776 26,694 36,068 11,590 1,130,000 0 1,204,352 0 1,204,352	31 19,131 0 0 19,131 0 0 19,131 5,811,907 0 0 0 30,000 0 30,000 0 30,000	30 19,313 0 0 19,313 0 0 19,313 5,831,220 0 0 0 30,000 0 30,000 0 30,000	31 19,131 0 0 19,131 0 0 19,131 5,850,351 0 0 0 30,000 0 30,000 0 30,000	365  327,114  0  0  327,114  0  327,114  0  327,114  -  182,846  540,163  34,675  4,520,000  240,000  5,517,684  0  0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) End-of-Month Volume (m³) Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) End-of-Month Volume (m³)  End-of-Month Volume (m³)  End-of-Month Volume (m³)	31 19,131 0 0 19,131 0 0 19,131 5,542,368 0 0 0 30,000 0 30,000 0 30,000 15,153,636	28  19,313 0 0 19,313 0 0 19,313 0 19,313 5,561,681  0 0 30,000 30,000 0 30,000 15,183,636	31 19,131 0 0 19,131 0 0 19,131 5,580,812 0 0 0 30,000 0 30,000 0 30,000 15,213,636	19,131 0 0 19,131 0 0 19,131 5,599,943 0 0 0 30,000 0 30,000 0 30,000 15,243,636	31 19,313 0 0 19,313 0 0 19,313 5,619,256 0 23,085 0 30,000 53,085 0 0 53,085 15,296,721	Jun 30 60,716 0 0 60,716 0 0 60,716 5,679,972 78,539 267,646 0 1,130,000 0 1,476,185 0 0 1,476,185	Jul 31 30,242 0 0 30,242 0 0 30,242 5,710,214 20,985 184,637 0 1,130,000 0 1,335,622 0 0 1,335,622 18,108,527	31 49,297 0 0 49,297 0 0 49,297 5,759,511 56,628 51,812 0 1,130,000 0 1,238,440 0 1,238,440 19,346,967	30 33,265 0 0 33,265 0 0 33,265 5,792,776 26,694 36,068 11,590 1,130,000 0 1,204,352 0 0 1,204,352 20,551,319	31 19,131 0 0 19,131 0 0 19,131 5,811,907 0 0 0 30,000 0 30,000 0 30,000 20,581,319	30 19,313 0 0 19,313 0 0 19,313 5,831,220 0 0 0 30,000 0 30,000 0 30,000 20,611,319	31 19,131 0 0 19,131 0 0 19,131 5,850,351 0 0 0 30,000 0 30,000 0 30,000 20,641,319	365  327,114  0  0  327,114  0  327,114  0  327,114  -  182,846  540,163  34,675  4,520,000  240,000  5,517,684  0  0  5,517,684  -
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) End-of-Month Volume (m³)  Protage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) End-of-Month Volume (m³)  Vault Attenuation Pond Runoff (m³)	31 19,131 0 0 19,131 0 0 19,131 5,542,368 0 0 0 30,000 0 30,000 0 30,000 15,153,636	28  19,313 0 0 19,313 0 0 19,313 0 19,313 5,561,681  0 30,000 30,000 0 30,000 15,183,636	31 19,131 0 0 19,131 0 0 19,131 5,580,812 0 0 0 30,000 0 30,000 0 30,000 15,213,636	19,131 0 0 19,131 0 0 19,131 5,599,943 0 0 0 0 30,000 0 30,000 0 30,000 15,243,636	31 19,313 0 0 19,313 0 0 19,313 5,619,256 0 23,085 0 30,000 53,085 0 0 53,085 15,296,721	Jun 30 60,716 0 0 60,716 0 0 60,716 5,679,972 78,539 267,646 0 1,130,00 0 1,476,185 0 0 1,476,185 16,772,905	Jul 31 30,242 0 0 30,242 0 0 30,242 5,710,214 20,985 184,637 0 1,130,000 0 1,335,622 0 0 1,335,622 18,108,527	31 49,297 0 0 49,297 0 0 49,297 5,759,511 56,628 51,812 0 1,130,000 0 1,238,440 0 1,238,440 19,346,967	30 33,265 0 0 33,265 0 0 33,265 5,792,776 26,694 36,068 11,590 1,130,000 0 1,204,352 0 0 1,204,352 20,551,319	31 19,131 0 0 19,131 0 0 19,131 5,811,907 0 0 0 30,000 0 30,000 0 30,000 20,581,319	30 19,313 0 0 19,313 0 0 19,313 5,831,220 0 0 0 30,000 0 30,000 0 30,000 20,611,319	31 19,131 0 0 19,131 0 0 19,131 5,850,351 0 0 0 30,000 0 30,000 0 30,000 20,641,319	365  327,114  0  0  327,114  0  337,114  0  337,114  -  182,846  540,163  34,675  4,520,000  240,000  5,517,684  0  0  5,517,684  -  367,144
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  End-of-Month Volume (m³) Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³) Net Inflow (m³) Pumped From Volume (m³)  Pumped From Vault Pit (m³) Pumped From Phaser Pit (m³) Pumped From Wally Lake (m³)	31 19,131 0 0 19,131 0 0 19,131 5,542,368 0 0 0 30,000 0 30,000 0 30,000 15,153,636	28  19,313 0 0 19,313 0 0 19,313 0 0 19,313 5,561,681  0 0 30,000 30,000 0 30,000 15,183,636 0 0 0 0 0	31 19,131 0 0 19,131 0 0 19,131 5,580,812 0 0 0 30,000 0 30,000 0 30,000 15,213,636	30 19,131 0 0 19,131 0 0 19,131 5,599,943 0 0 0 0 30,000 0 30,000 0 30,000 0 15,243,636	31 19,313 0 0 19,313 0 0 19,313 5,619,256 0 0 23,085 0 30,000 53,085 0 0 53,085 15,296,721	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,679,972 78,539 267,646 0 1,130,000 0 1,476,185 0 1,476,185 16,772,905	Jul 31 30,242 0 0 30,242 0 0 30,242 5,710,214 20,985 184,637 0 1,130,000 0 1,335,622 0 1,335,622 18,108,527 23,105 0 0	31 49,297 0 0 49,297 0 0 49,297 5,759,511 56,628 51,812 0 1,130,000 0 1,238,440 0 1,238,440 19,346,967 107,352 0 0	30 33,265 0 0 33,265 0 0 33,265 5,792,776 26,694 36,068 11,590 1,130,000 0 1,204,352 0 0 1,204,352 20,551,319 52,710 0 0	31 19,131 0 0 19,131 0 0 19,131 5,811,907 0 0 0 30,000 0 30,000 0 30,000 0 20,581,319	30  19,313 0 0 19,313 0 0 19,313 0 0 19,313 5,831,220 0 0 0 30,000 0 30,000 0 30,000 20,611,319 0 0 0 0	31 19,131 0 0 19,131 0 0 19,131 5,850,351 0 0 0 30,000 0 30,000 0 30,000 20,641,319	365  327,114  0  0  327,114  0  0  327,114  0  182,846  540,163  34,675  4,520,000  240,000  5,517,684  0  0  5,517,684  -  367,144  0  0  0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  End-of-Month Volume (m³) Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³) Net Inflow (m³) Pumped From Volume (m³)  Vault Attenuation Pond Runoff (m³) Pumped From Vault Pit (m³) Pumped From Phaser Pit (m³) Pumped from Wally Lake (m³)  Total Inflow (m³)	31 19,131 0 0 19,131 0 0 19,131 5,542,368 0 0 0 30,000 0 30,000 0 30,000 0 15,153,636	28  19,313 0 0 19,313 0 0 19,313 5,561,681  0 0 30,000 30,000 0 30,000 15,183,636  0 0 0 0 0 0 0 0	31 19,131 0 0 19,131 0 0 19,131 5,580,812 0 0 0 30,000 0 30,000 0 30,000 0 15,213,636	30 19,131 0 0 19,131 0 0 19,131 5,599,943 0 0 0 0 30,000 0 30,000 0 30,000 0 15,243,636	31 19,313 0 0 19,313 0 0 19,313 5,619,256 0 0 23,085 0 30,000 53,085 0 0 53,085 15,296,721	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,679,972 78,539 267,646 0 1,130,000 0 1,476,185 0 0 1,476,185 16,772,905 183,978 0 0 183,978	Jul 31 30,242 0 0 30,242 0 0 30,242 5,710,214 20,985 184,637 0 1,130,000 0 1,335,622 0 1,335,622 18,108,527 23,105 0 0 23,105	31 49,297 0 0 49,297 0 0 49,297 5,759,511 56,628 51,812 0 1,130,000 0 1,238,440 0 1,238,440 19,346,967 107,352 0 0	30 33,265 0 0 33,265 0 0 33,265 5,792,776 26,694 36,068 11,590 1,130,000 0 1,204,352 0 0 1,204,352 20,551,319 52,710 0 0	31  19,131 0 0 19,131 0 0 19,131 5,811,907  0 0 0 30,000 0 30,000 0 30,000 20,581,319  0 0 0 0 0	30  19,313 0 0 19,313 0 0 19,313 5,831,220 0 0 0 30,000 0 30,000 0 30,000 20,611,319 0 0 0 0 0	31 19,131 0 0 19,131 0 0 19,131 5,850,351 0 0 0 30,000 0 30,000 0 30,000 0 20,641,319 0 0	365  327,114  0  0  327,114  0  327,114  0  182,846  540,163  34,675  4,520,000  240,000  5,517,684  0  0  5,517,684  -  367,144  0  0  0  367,144
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  Pend-of-Month Volume (m³)  Protage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³) Net Inflow (m³)  Net Inflow (m³) Pumped From Volume (m³)  Vault Attenuation Pond Runoff (m³) Pumped From Vault Pit (m³) Pumped From Phaser Pit (m³) Pumped from Wally Lake (m³)  Total Inflow (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)	31 19,131 0 0 19,131 0 0 19,131 5,542,368 0 0 0 30,000 0 30,000 0 30,000 0 15,153,636	28  19,313 0 0 19,313 0 0 19,313 5,561,681  0 0 30,000 30,000 0 30,000 15,183,636  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31 19,131 0 0 19,131 0 0 19,131 5,580,812 0 0 0 30,000 0 30,000 0 30,000 0 15,213,636	30 19,131 0 0 19,131 0 0 19,131 5,599,943 0 0 0 0 30,000 0 30,000 0 30,000 0 15,243,636 0 0 0	31 19,313 0 0 19,313 0 0 19,313 5,619,256 0 0 23,085 0 30,000 53,085 0 0 53,085 15,296,721	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,679,972 78,539 267,646 0 1,130,000 0 1,476,185 0 0 1,476,185 16,772,905 183,978 0 0 183,978 0	Jul 31 30,242 0 0 30,242 0 0 30,242 5,710,214 20,985 184,637 0 1,130,000 0 1,335,622 0 0 1,335,622 18,108,527 23,105 0 0 23,105 0	31 49,297 0 0 49,297 0 0 49,297 5,759,511 56,628 51,812 0 1,130,000 0 1,238,440 0 1,238,440 19,346,967 107,352 0 0	30 33,265 0 0 33,265 0 0 33,265 5,792,776 26,694 36,068 11,590 1,130,000 0 1,204,352 0 0 1,204,352 20,551,319 52,710 0 0 52,710 0	31  19,131 0 0 19,131 0 0 19,131 5,811,907  0 0 0 30,000 0 30,000 0 30,000 20,581,319  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30  19,313 0 0 19,313 0 0 19,313 5,831,220 0 0 0 30,000 30,000 0 30,000 20,611,319 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31 19,131 0 0 19,131 0 0 19,131 5,850,351 0 0 0 30,000 0 30,000 0 30,000 20,641,319 0 0 0	365  327,114  0  0  327,114  0  327,114  0  182,846  540,163  34,675  4,520,000  240,000  5,517,684  0  0  5,517,684  -  367,144  0  0  0  367,144  0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  Pend-of-Month Volume (m³)  Prage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) Pumped From Volume (m³)  Vault Attenuation Pond Runoff (m³) Pumped From Vault Pit (m³) Pumped From Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Total Outflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)	31 19,131 0 0 19,131 0 0 19,131 5,542,368 0 0 0 0 30,000 0 30,000 0 30,000 15,153,636 0 0 0	28  19,313 0 0 19,313 0 0 19,313 5,561,681  0 0 0 30,000 0 30,000 0 15,183,636  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31 19,131 0 0 19,131 0 0 19,131 5,580,812 0 0 0 0 30,000 0 30,000 0 30,000 0 15,213,636	30 19,131 0 0 19,131 0 0 19,131 5,599,943 0 0 0 0 30,000 0 30,000 0 30,000 0 15,243,636 0 0 0 0	31  19,313  0  0  19,313  0  0  19,313  5,619,256  0  23,085  0  30,000  53,085  0  53,085  15,296,721  0  0  0  0  0  0	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,679,972 78,539 267,646 0 1,130,000 0 1,476,185 0 0 1,476,185 16,772,905 183,978 0 0 183,978 0 0	Jul 31 30,242 0 0 30,242 0 0 30,242 5,710,214 20,985 184,637 0 1,130,000 0 1,335,622 0 0 1,335,622 18,108,527 23,105 0 0 23,105 0 0	31 49,297 0 0 49,297 0 0 49,297 5,759,511 56,628 51,812 0 1,130,000 0 1,238,440 0 1,238,440 19,346,967 107,352 0 0 107,352 0	30 33,265 0 0 33,265 0 0 33,265 5,792,776 26,694 36,068 11,590 1,130,000 0 1,204,352 0 0 1,204,352 20,551,319 52,710 0 0 52,710 0	31  19,131 0 0 19,131 0 0 19,131 5,811,907  0 0 0 30,000 0 30,000 0 30,000 20,581,319  0 0 0 0 0 0 0 0 0 0 0 0 0 0	30  19,313 0 0 19,313 0 0 19,313 5,831,220  0 0 0 30,000 30,000 0 30,000 20,611,319  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31 19,131 0 0 19,131 0 0 19,131 5,850,351 0 0 0 0 30,000 0 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	365  327,114  0  0  327,114  0  0  327,114  0  182,846  540,163  34,675  4,520,000  240,000  5,517,684  0  0  5,517,684  -  367,144  0  0  0  367,144  0  0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  Pend-of-Month Volume (m³)  Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³) Net Inflow (m³) Pumped From Volume (m³)  Pumped From Vault Pit (m³) Pumped From Phaser Pit (m³) Pumped From Wally Lake (m³)  Total Inflow (m³) Decant - TSS to Wally Lake (m³)  Total Outflow (m³) Net Inflow (m³) Net Inflow (m³)  Net Inflow (m³)	31 19,131 0 0 19,131 0 0 19,131 5,542,368 0 0 0 0 30,000 0 30,000 0 30,000 15,153,636	28  19,313 0 0 19,313 0 0 19,313 5,561,681  0 0 0 30,000 0 30,000 0 15,183,636  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31 19,131 0 0 19,131 0 0 19,131 5,580,812 0 0 0 0 30,000 0 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	30 19,131 0 0 19,131 0 0 19,131 5,599,943 0 0 0 0 30,000 0 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	31 19,313 0 0 19,313 0 0 19,313 5,619,256 0 0 23,085 0 30,000 53,085 0 0 53,085 15,296,721	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,679,972 78,539 267,646 0 1,130,000 0 1,476,185 0 0 1,476,185 16,772,905 183,978 0 0 183,978 0 0 183,978	Jul 31 30,242 0 0 30,242 0 0 30,242 5,710,214 20,985 184,637 0 1,130,000 0 1,335,622 0 1,335,622 18,108,527 23,105 0 0 23,105 0 0 23,105	31 49,297 0 0 49,297 0 0 49,297 5,759,511 56,628 51,812 0 1,130,000 0 1,238,440 0 0 1,238,440 19,346,967 107,352 0 0 107,352	30 33,265 0 0 33,265 0 0 33,265 5,792,776 26,694 36,068 11,590 1,130,000 0 1,204,352 0 1,204,352 20,551,319 52,710 0 0 52,710 0	31  19,131 0 0 19,131 0 0 19,131 5,811,907  0 0 0 30,000 0 30,000 0 30,000 0 0 0 0	30  19,313  0  0  19,313  0  0  19,313  5,831,220  0  0  0  30,000  30,000  0  30,000  20,611,319  0  0  0  0  0  0  0  0  0  0  0  0  0	31 19,131 0 0 19,131 0 0 19,131 5,850,351 0 0 0 0 30,000 0 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	365  327,114  0  0  327,114  0  327,114  0  182,846  540,163  34,675  4,520,000  240,000  5,517,684  0  0  5,517,684  -  367,144  0  0  0  367,144  0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  Pend-of-Month Volume (m³)  Prage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) Pumped From Volume (m³)  Vault Attenuation Pond Runoff (m³) Pumped From Vault Pit (m³) Pumped From Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Total Outflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)	31 19,131 0 0 19,131 0 0 19,131 5,542,368 0 0 0 0 30,000 0 30,000 0 30,000 15,153,636 0 0 0	28  19,313 0 0 19,313 0 0 19,313 5,561,681  0 0 0 30,000 0 30,000 0 15,183,636  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31 19,131 0 0 19,131 0 0 19,131 5,580,812 0 0 0 0 30,000 0 30,000 0 30,000 0 15,213,636	30 19,131 0 0 19,131 0 0 19,131 5,599,943 0 0 0 0 30,000 0 30,000 0 30,000 0 15,243,636 0 0 0 0	31  19,313  0  0  19,313  0  0  19,313  5,619,256  0  23,085  0  30,000  53,085  0  53,085  15,296,721  0  0  0  0  0  0	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,679,972 78,539 267,646 0 1,130,000 0 1,476,185 0 0 1,476,185 16,772,905 183,978 0 0 183,978 0 0	Jul 31 30,242 0 0 30,242 0 0 30,242 5,710,214 20,985 184,637 0 1,130,000 0 1,335,622 0 0 1,335,622 18,108,527 23,105 0 0 23,105 0 0	31 49,297 0 0 49,297 0 0 49,297 5,759,511 56,628 51,812 0 1,130,000 0 1,238,440 0 1,238,440 19,346,967 107,352 0 0 107,352 0	30 33,265 0 0 33,265 0 0 33,265 5,792,776 26,694 36,068 11,590 1,130,000 0 1,204,352 0 0 1,204,352 20,551,319 52,710 0 0 52,710 0	31  19,131 0 0 19,131 0 0 19,131 5,811,907  0 0 0 30,000 0 30,000 0 30,000 20,581,319  0 0 0 0 0 0 0 0 0 0 0 0 0 0	30  19,313 0 0 19,313 0 0 19,313 5,831,220  0 0 0 30,000 30,000 0 30,000 20,611,319  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31 19,131 0 0 19,131 0 0 19,131 5,850,351 0 0 0 0 30,000 0 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	365  327,114  0  0  327,114  0  0  327,114  0  182,846  540,163  34,675  4,520,000  240,000  5,517,684  0  0  5,517,684  -  367,144  0  0  0  367,144  0  0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³) Net Inflow (m³)  Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³) Net Inflow (m³) Pumped from Volume (m³)  Vault Attenuation Pond Runoff (m³) Pumped From Phaser Pit (m³) Pumped From Wallt Pit (m³) Pumped from Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³) Net Inflow (m³)  Pocant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Net Inflow (m³)  End-of-Month Volume (m³)	31 19,131 0 0 19,131 0 0 19,131 5,542,368 0 0 0 0 30,000 0 30,000 0 30,000 15,153,636	28  19,313 0 0 19,313 0 0 19,313 5,561,681  0 0 0 30,000 30,000 0 30,000 15,183,636  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31 19,131 0 0 19,131 0 0 19,131 5,580,812 0 0 0 0 30,000 0 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	30 19,131 0 0 19,131 0 0 19,131 5,599,943 0 0 0 0 30,000 0 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	31 19,313 0 0 19,313 0 0 19,313 5,619,256 0 0 23,085 0 30,000 53,085 0 0 53,085 15,296,721	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,679,972 78,539 267,646 0 1,130,000 0 1,476,185 0 0 1,476,185 16,772,905 183,978 0 0 183,978 0 0 183,978	Jul 31 30,242 0 0 30,242 0 0 30,242 5,710,214 20,985 184,637 0 1,130,000 0 1,335,622 0 1,335,622 18,108,527 23,105 0 0 23,105 0 0 23,105	31 49,297 0 0 49,297 0 0 49,297 5,759,511 56,628 51,812 0 1,130,000 0 1,238,440 0 0 1,238,440 19,346,967 107,352 0 0 107,352	30 33,265 0 0 33,265 0 0 33,265 5,792,776 26,694 36,068 11,590 1,130,000 0 1,204,352 0 1,204,352 20,551,319 52,710 0 0 52,710 0	31  19,131 0 0 19,131 0 0 19,131 5,811,907  0 0 0 30,000 0 30,000 0 30,000 0 0 0 0	30  19,313  0  0  19,313  0  0  19,313  5,831,220  0  0  0  30,000  30,000  0  30,000  20,611,319  0  0  0  0  0  0  0  0  0  0  0  0  0	31 19,131 0 0 19,131 0 0 19,131 5,850,351 0 0 0 0 30,000 0 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	365  327,114  0  0  327,114  0  0  327,114  0  182,846  540,163  34,675  4,520,000  240,000  5,517,684  0  0  5,517,684  -  367,144  0  0  0  367,144  0  0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³) Net Inflow (m³)  Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³) Net Inflow (m³) Net Inflow (m³)  Pumped From Volume (m³)  Yault Attenuation Pond Runoff (m³) Pumped From Vault Pit (m³) Pumped From Wally Lake (m³)  Total Inflow (m³) Decant - TSS to Wally Lake (m³)  Total Outflow (m³) Net Inflow (m³) Net Inflow (m³)  Pocant - TSS to Wally Lake (m³)  Total Outflow (m³) Net Inflow (m³) Net Inflow (m³)  Fotal Outflow (m³) Net Inflow (m³)  Fotal Outflow (m³) Net Inflow (m³) End-of-Month Volume (m³)  Find-of-Month Volume (m³)  Vault Open Pit	31 19,131 0 0 19,131 0 0 19,131 5,542,368 0 0 0 0 30,000 0 30,000 0 30,000 15,153,636 0 0 0 0 0 19,131	28  19,313 0 0 19,313 0 0 19,313 5,561,681  0 0 0 30,000 0 30,000 0 15,183,636  0 0 0 0 0 0 0 1,641,559	31 19,131 0 0 19,131 0 0 19,131 5,580,812 0 0 0 0 30,000 0 30,000 0 30,000 15,213,636 0 0 0 0 0 10 10 10 10 10 10	30  19,131 0 0 19,131 0 0 19,131 0 0 19,131 5,599,943  0 0 0 0 30,000 0 30,000 0 15,243,636  0 0 0 0 0 0 0 1,244,636	31 19,313 0 0 19,313 0 0 19,313 5,619,256 0 0 23,085 0 30,000 53,085 0 0 53,085 15,296,721 0 0 0 0	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,679,972 78,539 267,646 0 1,130,000 0 1,476,185 0 1,476,185 16,772,905 183,978 0 0 183,978 0 0 183,978 0 183,978 1,825,537	Jul 31 30,242 0 0 30,242 0 0 30,242 5,710,214 20,985 184,637 0 1,130,000 0 1,335,622 0 1,335,622 18,108,527 23,105 0 0 23,105 0 0 23,105 0 0 23,105 1,848,642	31  49,297 0 0 49,297 0 0 49,297 5,759,511  56,628 51,812 0 1,130,000 0 1,238,440 0 1,238,440 19,346,967  107,352 0 0 107,352 0 107,352 1,955,993	30 33,265 0 0 33,265 0 0 33,265 5,792,776 26,694 36,068 11,590 1,130,000 0 1,204,352 0 0 1,204,352 20,551,319 52,710 0 0 52,710 0 0 52,710 0 0 52,710 0	31  19,131 0 0 19,131 0 0 19,131 5,811,907  0 0 0 30,000 0 30,000 0 30,000 20,581,319  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30  19,313 0 0 19,313 0 0 19,313 5,831,220 0 0 0 0 30,000 0 30,000 0 30,000 20,611,319 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31 19,131 0 0 19,131 0 0 19,131 5,850,351 0 0 0 0 30,000 0 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	365  327,114  0  0  327,114  0  0  327,114  0  182,846  540,163  34,675  4,520,000  240,000  5,517,684  0  0  5,517,684  -  367,144  0  0  367,144  0  0  367,144
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³) Net Inflow (m³)  Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³) Net Inflow (m³) Net Inflow (m³)  Pumped From Vault Pit (m³) Pumped From Vault Pit (m³) Pumped From Wally Lake (m³)  Total Outflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³) Net Inflow (m³)  Pumped From Wally Lake (m³)  Total Outflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³) Net Inflow (m³)  End-of-Month Volume (m³)  Pumped From Phaser Pit (m³) Decant - TSS to Wally Lake (m³)  Total Outflow (m³) Net Inflow (m³)  End-of-Month Volume (m³)  Vault Open Pit Runoff (m³)	31  19,131  0  0  19,131  0  0  19,131  0  0  19,131  5,542,368  0  0  0  30,000  30,000  0  30,000  15,153,636  0  0  0  0  0  0  1,641,559	28  19,313 0 0 19,313 0 0 19,313 5,561,681  0 0 0 30,000 0 30,000 0 15,183,636  0 0 0 0 0 0 1,641,559	31  19,131 0 0 19,131 0 0 19,131 5,580,812  0 0 0 30,000 0 30,000 0 15,213,636  0 0 0 0 0 0 0 1,641,559	30  19,131 0 0 19,131 0 0 19,131 0 0 19,131 5,599,943  0 0 0 0 30,000 0 30,000 0 15,243,636  0 0 0 0 0 0 0 1,641,559	31  19,313  0  19,313  0  19,313  0  19,313  5,619,256  0  23,085  0  30,000  53,085  0  53,085  15,296,721  0  0  0  0  0  0  1,641,559	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,679,972 78,539 267,646 0 1,130,000 0 1,476,185 0 0 1,476,185 16,772,905  183,978 0 0 183,978 0 0 183,978 0 66,526	Jul 31 30,242 0 0 30,242 0 0 30,242 5,710,214 20,985 184,637 0 1,130,000 0 1,335,622 0 0 1,335,622 18,108,527 23,105 0 0 23,105 0 0 23,105 0 0 23,105 1,848,642	31  49,297 0 0 49,297 0 0 49,297 5,759,511  56,628 51,812 0 1,130,000 0 1,238,440 0 0 1,238,440 19,346,967  107,352 0 0 107,352 0 107,352 1,955,993	30 33,265 0 0 33,265 0 0 33,265 5,792,776 26,694 36,068 11,590 1,130,000 0 1,204,352 0 0 1,204,352 20,551,319 52,710 0 0 52,710 0 0 52,710 0 0 52,710 2,008,703	31  19,131 0 0 19,131 0 0 19,131 5,811,907  0 0 0 0 30,000 0 30,000 0 20,581,319  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30  19,313 0 0 19,313 0 0 19,313 5,831,220 0 0 0 0 30,000 0 30,000 0 30,000 20,611,319 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131 0 0 19,131 0 0 19,131 5,850,351  0 0 0 30,000 0 30,000 0 30,000 20,641,319  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	365  327,114  0  0  327,114  0  0  327,114  0  182,846  540,163  34,675  4,520,000  240,000  5,517,684  0  0  5,517,684  -  367,144  0  0  367,144  0  0  367,144  -  154,880
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³) Net Inflow (m³)  Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³) Net Inflow (m³) Pumped From Volume (m³)  Pumped From Vault Pit (m³) Pumped From Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³) Net Inflow (m³) Pumped From Wally Lake (m³)  Total Outflow (m³) Pumped From Wally Lake (m³)  Total Inflow (m³) Pumped From Wally Lake (m³)  Total Outflow (m³) Pumped from Wally Lake (m³)  Total Outflow (m³) Pumped from Wally Lake (m³)  Total Inflow (m³) Pumped from Wally Lake (m³)	31  19,131  0  0  19,131  0  0  19,131  0  0  19,131  5,542,368  0  0  0  30,000  30,000  0  30,000  15,153,636  0  0  0  0  0  1,641,559	28  19,313 0 0 19,313 0 0 19,313 5,561,681  0 0 0 30,000 30,000 0 30,000 15,183,636  0 0 0 0 0 1,641,559	31  19,131 0 0 19,131 0 0 19,131 5,580,812  0 0 0 0 30,000 0 30,000 0 15,213,636  0 0 0 0 0 0 1,641,559	30  19,131 0 0 19,131 0 0 19,131 0 0 19,131 5,599,943  0 0 0 0 30,000 0 30,000 0 15,243,636  0 0 0 0 0 0 1,641,559 0 0 0 0 0 0 1,641,559	31  19,313  0  0  19,313  0  0  19,313  5,619,256  0  0  23,085  0  30,000  53,085  0  0  53,085  15,296,721  0  0  0  0  0  1,641,559  0  0  0  0  0  1,641,559	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,679,972 78,539 267,646 0 1,130,000 0 1,476,185 0 1,476,185 16,772,905 183,978 0 0 183,978 0 0 183,978 1,825,537 66,526 603,783 670,309 0	Jul 31 30,242 0 0 30,242 0 0 30,242 5,710,214 20,985 184,637 0 1,130,000 0 1,335,622 0 1,335,622 18,108,527 23,105 0 0 23,105 0 0 23,105 0 0 23,105 1,848,642 17,775 1,006,306 1,024,081 0	31  49,297 0 0 49,297 0 0 49,297 5,759,511  56,628 51,812 0 1,130,000 0 1,238,440 0 1,238,440 19,346,967  107,352 0 0 107,352 0 107,352 1,955,993  47,967 1,360,338 1,408,305 0	30 33,265 0 0 33,265 0 0 33,265 5,792,776 26,694 36,068 11,590 1,130,000 0 1,204,352 0 0 1,204,352 20,551,319 52,710 0 0 52,710 0 0 52,710 2,008,703 22,611 1,212,177 1,234,788 0	31  19,131 0 0 19,131 0 0 19,131 5,811,907  0 0 0 0 30,000 0 30,000 0 30,000 20,581,319  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30  19,313 0 0 19,313 0 0 19,313 5,831,220 0 0 0 0 0 30,000 0 30,000 0 0 30,000 20,611,319 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131 0 0 19,131 0 0 19,131 5,850,351  0 0 0 0 30,000 0 30,000 0 0 30,000 0 0 0	365  327,114  0  0  327,114  0  0  327,114  0  182,846  540,163  34,675  4,520,000  240,000  5,517,684  0  0  5,517,684  -  367,144  0  0  367,144  0  0  367,144  -  154,880  4,182,604  4,337,484  0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³)  Rend-of-Month Volume (m³) Portage Pit Runoff (m³)  Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³) Net Inflow (m³) Pumped From Vault Pit (m³) Pumped From Wally Lake (m³)  Total Inflow (m³) Decant - TSS to Wally Lake (m³)  Total Outflow (m³) Net Inflow (m³) Pumped from Wally Lake (m³)  Total Outflow (m³) Pumped From Phaser Pit (m³) Pumped From Wally Lake (m³)  Total Outflow (m³)  Red-of-Month Volume (m³) Pumped from Wally Lake (m³)  Total Outflow (m³) Pumped from Wally Lake (m³)  Total Outflow (m³) Pumped from Wally Lake (m³)  Total Inflow (m³) Pumped to Vault Attenuation Pond (m³)  Total Inflow (m³)	31  19,131  0  0  19,131  0  0  19,131  0  0  19,131  5,542,368  0  0  0  0  30,000  0  30,000  15,153,636  0  0  0  0  0  0  1,641,559  0  0  0  0  0  0  0  0  0  0  0  0  0	28  19,313 0 0 19,313 0 0 19,313 5,561,681  0 0 0 30,000 30,000 0 30,000 15,183,636  0 0 0 0 0 1,641,559 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131 0 0 19,131 0 0 19,131 5,580,812  0 0 0 0 30,000 0 30,000 0 15,213,636  0 0 0 0 0 1,641,559 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30  19,131 0 0 19,131 0 0 19,131 0 0 19,131 5,599,943  0 0 0 0 30,000 0 30,000 0 15,243,636  0 0 0 0 0 0 1,641,559 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,313  0  0  19,313  0  0  19,313  5,619,256  0  0  23,085  0  30,000  53,085  0  0  53,085  15,296,721  0  0  0  0  0  1,641,559  0  0  0  0  0  0  0  0  0  0  0  0  0	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,679,972 78,539 267,646 0 1,130,000 0 1,476,185 0 0 1,476,185 16,772,905 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 0 183,978 0 0 0 0 183,978 0 0 0 0 0 0 0 0 0	Jul 31 30,242 0 0 30,242 0 0 30,242 5,710,214 20,985 184,637 0 1,130,000 0 1,335,622 0 0 1,335,622 18,108,527 23,105 0 0 23,105 0 0 23,105 0 0 23,405 1,848,642 17,775 1,006,306 1,024,081 0 0	31  49,297 0 0 49,297 0 0 49,297 5,759,511  56,628 51,812 0 1,130,000 0 1,238,440 0 1,238,440 19,346,967  107,352 0 0 107,352 0 107,352 1,955,993 47,967 1,360,338 1,408,305 0 0 0	30 33,265 0 0 33,265 0 0 33,265 5,792,776 26,694 36,068 11,590 1,130,000 0 1,204,352 20,551,319 52,710 0 0 52,710 0 0 52,710 0 0 52,710 1,212,177 1,234,788 0 0	31  19,131 0 0 19,131 0 0 19,131 5,811,907 0 0 0 0 0 30,000 0 30,000 0 0 30,000 0 0 0	30  19,313 0 0 19,313 0 0 19,313 5,831,220 0 0 0 0 0 30,000 0 30,000 0 0 30,000 20,611,319 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131 0 0 19,131 0 0 19,131 5,850,351  0 0 0 0 30,000 0 30,000 0 0 30,000 0 0 0	365  327,114  0  0  327,114  0  0  327,114  0  182,846  540,163  34,675  4,520,000  240,000  5,517,684  0  0  5,517,684  -  367,144  0  0  367,144  0  0  367,144  -  154,880  4,182,604  4,337,484  0  0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³)  Pendof-Month Volume (m³)  Portage Pit Runoff (m³)  Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³)  Net Inflow (m³) Pumped From Vault Pit (m³) Pumped From Vally Lake (m³)  Total Inflow (m³) Decant - TSS to Wally Lake (m³)  Total Outflow (m³) Net Inflow (m³)  Pet Inflow (m³) Pumped From Wally Lake (m³)  Total Outflow (m³) Net Inflow (m³) Pumped From Wally Lake (m³)  Total Outflow (m³) Net Inflow (m³) Pumped From Wally Lake (m³)  Total Outflow (m³) Pumped from Wally Lake (m³)  Total Outflow (m³) Pumped from Wally Lake (m³)  Total Inflow (m³) Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)	31  19,131  0  0  19,131  0  0  19,131  0  0  19,131  5,542,368  0  0  0  0  30,000  30,000  15,153,636  0  0  0  0  0  0  1,641,559  0  0  0  0  0  0  0  0  0  0  0  0  0	28  19,313 0 0 19,313 0 0 19,313 5,561,681  0 0 0 30,000 30,000 0 30,000 15,183,636  0 0 0 0 0 1,641,559 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131 0 0 19,131 0 0 19,131 5,580,812  0 0 0 0 30,000 0 30,000 0 15,213,636  0 0 0 0 0 1,641,559 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30  19,131 0 0 19,131 0 0 19,131 0 0 19,131 5,599,943  0 0 0 0 30,000 0 30,000 0 15,243,636  0 0 0 0 0 0 1,641,559 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,313  0  0  19,313  0  0  19,313  5,619,256  0  0  23,085  0  30,000  53,085  0  0  53,085  15,296,721  0  0  0  0  1,641,559  0  0  0  0  0  0  0  0  0  0  0  0  0	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,679,972 78,539 267,646 0 1,130,000 0 1,476,185 0 0 1,476,185 0 0 1,476,185 16,772,905 183,978 0 0 0 0 0 0 0 0 670,309	Jul 31 30,242 0 0 0 30,242 0 0 30,242 5,710,214 20,985 184,637 0 1,130,000 0 1,335,622 18,108,527 23,105 0 0 23,105 0 0 23,105 1,848,642 17,775 1,006,306 1,024,081 0 0 1,024,081	31  49,297 0 0 49,297 0 0 49,297 5,759,511  56,628 51,812 0 1,130,000 0 1,238,440 19,346,967  107,352 0 0 107,352 0 107,352 1,955,993  47,967 1,360,338 1,408,305 0 1,408,305	30 33,265 0 0 33,265 0 0 33,265 5,792,776 26,694 36,068 11,590 1,130,000 0 1,204,352 20,551,319 52,710 0 0 52,710 0 0 52,710 0 0 52,710 2,008,703 22,611 1,212,177 1,234,788 0 0 1,234,788	31  19,131 0 0 19,131 0 0 19,131 5,811,907 0 0 0 0 0 30,000 0 30,000 0 0 30,000 0 0 0	30  19,313 0 0 19,313 0 0 19,313 5,831,220  0 0 0 0 0 30,000 30,000 0 30,000 20,611,319  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131 0 0 19,131 0 0 19,131 5,850,351  0 0 0 0 30,000 0 30,000 0 20,641,319  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	365  327,114  0  0  327,114  0  0  327,114  0  182,846  540,163  34,675  4,520,000  240,000  5,517,684  0  0  5,517,684  -  367,144  0  0  367,144  0  0  367,144  -  154,880  4,182,604  4,337,484  0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³)  Rend-of-Month Volume (m³) Portage Pit Runoff (m³)  Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³)  Put Inflow (m³) Pumped From Vault Pit (m³) Pumped From Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³) Pumped from Wally Lake (m³)  Total Outflow (m³)  Pumped From Phaser Pit (m³) Pumped From Vally Lake (m³)  Total Outflow (m³)  Pedia Outflow (m³)  Potal Inflow (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Pumped to Vault Attenuation Pond (m³)	31  19,131  0  0  19,131  0  0  19,131  0  0  19,131  5,542,368  0  0  0  0  30,000  0  30,000  15,153,636  0  0  0  0  0  0  1,641,559  0  0  0  0  0  0  0  0  0  0  0  0  0	28  19,313 0 0 19,313 0 0 19,313 5,561,681  0 0 0 30,000 30,000 0 30,000 15,183,636  0 0 0 0 0 1,641,559 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131 0 0 19,131 0 0 19,131 5,580,812  0 0 0 0 30,000 0 30,000 0 15,213,636  0 0 0 0 0 1,641,559 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30  19,131 0 0 19,131 0 0 19,131 0 0 19,131 5,599,943  0 0 0 0 30,000 0 30,000 0 15,243,636  0 0 0 0 0 0 1,641,559 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,313  0  0  19,313  0  0  19,313  5,619,256  0  0  23,085  0  30,000  53,085  0  0  53,085  15,296,721  0  0  0  0  0  1,641,559  0  0  0  0  0  0  0  0  0  0  0  0  0	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,679,972 78,539 267,646 0 1,130,000 0 1,476,185 0 0 1,476,185 16,772,905 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 0 183,978 0 0 0 0 183,978 0 0 0 0 0 0 0 0 0	Jul 31 30,242 0 0 30,242 0 0 30,242 5,710,214 20,985 184,637 0 1,130,000 0 1,335,622 0 0 1,335,622 18,108,527 23,105 0 0 23,105 0 0 23,105 0 0 23,405 1,848,642 17,775 1,006,306 1,024,081 0 0	31  49,297 0 0 49,297 0 0 49,297 5,759,511  56,628 51,812 0 1,130,000 0 1,238,440 0 1,238,440 19,346,967  107,352 0 0 107,352 0 107,352 1,955,993 47,967 1,360,338 1,408,305 0 0 0	30 33,265 0 0 33,265 0 0 33,265 5,792,776 26,694 36,068 11,590 1,130,000 0 1,204,352 20,551,319 52,710 0 0 52,710 0 0 52,710 0 0 52,710 1,212,177 1,234,788 0 0	31  19,131 0 0 19,131 0 0 19,131 5,811,907 0 0 0 0 0 30,000 0 30,000 0 0 30,000 0 0 0	30  19,313 0 0 19,313 0 0 19,313 5,831,220 0 0 0 0 0 30,000 0 30,000 0 0 30,000 20,611,319 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131 0 0 19,131 0 0 19,131 5,850,351  0 0 0 0 30,000 0 30,000 0 0 30,000 0 0 0	365  327,114  0  0  327,114  0  0  327,114  0  182,846  540,163  34,675  4,520,000  240,000  5,517,684  0  0  5,517,684  -  367,144  0  0  367,144  0  0  367,144  0  0  367,144  0  0  367,144  0  0  0  367,144  0  0  0  367,144  0  0  0  0  367,144  0  0  0  0  0  367,144  0  0  0  0  0  0  0  0  0  0  0  0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³)  Pendof-Month Volume (m³)  Portage Pit Runoff (m³)  Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³)  Net Inflow (m³) Pumped From Vault Pit (m³) Pumped From Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  Pumped From Wally Lake (m³)  Total Outflow (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  Pumped From Phaser Pit (m³) Pumped From Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Pumped Toolutflow (m³)	31  19,131 0 0 19,131 0 0 19,131 0 0 19,131 5,542,368  0 0 0 0 30,000 30,000 0 30,000 0 15,153,636  0 0 0 0 0 0 1,641,559  0 0 0 0 1,641,559	28  19,313 0 0 19,313 0 0 19,313 5,561,681  0 0 0 30,000 30,000 0 30,000 15,183,636  0 0 0 0 0 1,641,559  0 0 0 1,641,559	31  19,131 0 0 19,131 0 0 19,131 5,580,812  0 0 0 0 30,000 30,000 0 30,000 15,213,636  0 0 0 0 0 1,641,559  0 0 0 1,641,559	30  19,131 0 0 19,131 0 0 19,131 0 0 19,131 5,599,943  0 0 0 0 30,000 30,000 0 30,000 0 15,243,636  0 0 0 0 0 0 1,641,559 0 0 0 0 1,641,559	31  19,313  0  19,313  0  19,313  0  19,313  5,619,256  0  23,085  0  30,000  53,085  0  0  53,085  15,296,721  0  0  0  0  1,641,559  0  0  0  1,641,559	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,679,972 78,539 267,646 0 1,130,000 0 1,476,185 0 0 1,476,185 16,772,905 183,978 0 0 183,978 0 183,978 1,825,537 66,526 603,783 670,309 0 0 13,682,760	Jul 31 30,242 0 0 0 30,242 0 0 30,242 5,710,214 20,985 184,637 0 1,130,000 0 1,335,622 18,108,527 23,105 0 0 23,105 0 0 23,105 1,848,642 17,775 1,006,306 1,024,081 0 0 1,024,081 14,706,841	31  49,297 0 0 49,297 0 0 49,297 5,759,511  56,628 51,812 0 1,130,000 0 1,238,440 19,346,967  107,352 0 0 107,352 0 107,352 1,955,993  47,967 1,360,338 1,408,305 0 0 1,408,305 16,115,146	30 33,265 0 0 33,265 0 0 33,265 5,792,776 26,694 36,068 11,590 1,130,000 0 1,204,352 20,551,319 52,710 0 0 52,710 0 0 52,710 0 0 52,710 2,008,703 22,611 1,212,177 1,234,788 0 0 1,234,788 17,349,934	31  19,131 0 0 19,131 0 0 19,131 5,811,907 0 0 0 0 0 30,000 30,000 0 0 30,000 0 0 0	30  19,313 0 0 19,313 0 0 19,313 5,831,220  0 0 0 0 0 30,000 30,000 0 0 30,000 0 0 0	31  19,131 0 0 19,131 0 0 19,131 0 0 19,131 5,850,351  0 0 0 30,000 30,000 0 30,000 0 0 30,000 0 0 0	365  327,114 0 0 327,114 0 0 327,114 0 182,846 540,163 34,675 4,520,000 240,000 5,517,684 0 0 5,517,684 - 367,144 0 0 0 367,144 0 0 367,144 - 154,880 4,182,604 4,337,484 0 0 4,337,484
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³) Net Inflow (m³)  Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³) Net Inflow (m³) Pumped From Vault Pit (m³) Pumped From Vault Pit (m³) Pumped from Wally Lake (m³)  Total Outflow (m³) Net Inflow (m³) Pumped From Wally Lake (m³)  Total Inflow (m³) Pumped from Wally Lake (m³)  Total Outflow (m³) Net Inflow (m³) Pumped from Wally Lake (m³)  Total Outflow (m³) Net Inflow (m³) Pumped from Wally Lake (m³)  Total Outflow (m³) Net Inflow (m³) Pumped from Wally Lake (m³)  Total Outflow (m³) Pumped from Pit (including Phaser Lake) Runoff (m³)	31  19,131  0  0  19,131  0  0  19,131  0  0  19,131  5,542,368  0  0  0  0  30,000  30,000  0  30,000  15,153,636  0  0  0  0  0  0  0  1,641,559  0  0  0  1,641,559	28  19,313 0 0 19,313 0 0 19,313 5,561,681  0 0 0 30,000 30,000 0 30,000 15,183,636  0 0 0 0 0 1,641,559 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131 0 0 19,131 0 0 19,131 5,580,812  0 0 0 0 30,000 0 30,000 0 15,213,636  0 0 0 0 0 1,641,559 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30  19,131 0 0 19,131 0 0 19,131 0 0 19,131 5,599,943  0 0 0 0 30,000 0 30,000 0 15,243,636  0 0 0 0 0 0 1,641,559 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,313  0  0  19,313  0  0  19,313  5,619,256  0  0  23,085  0  30,000  53,085  0  0  53,085  15,296,721  0  0  0  0  1,641,559  0  0  0  0  0  0  0  0  0  0  0  0  0	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 0 0 1,476,185 0 1,476,185 0 0 1,476,185 0 0 1,476,185 16,772,905 183,978 0 0 183,978 0 0 183,978 1,825,537 66,526 603,783 670,309 0 0 13,682,760	Jul 31 30,242 0 0 30,242 0 0 30,242 5,710,214 20,985 184,637 0 1,130,000 0 1,335,622 18,108,527 23,105 0 0 23,105 0 0 23,105 1,848,642 17,775 1,006,306 1,024,081 0 0 1,024,081 14,706,841	31  49,297 0 0 49,297 0 0 49,297 5,759,511  56,628 51,812 0 1,130,000 0 1,238,440 0 1,238,440 19,346,967  107,352 0 0 107,352 0 107,352 1,955,993  47,967 1,360,338 1,408,305 0 0 1,408,305 16,115,146	30 33,265 0 0 33,265 0 0 33,265 5,792,776 26,694 36,068 11,590 1,130,000 0 1,204,352 20,551,319 52,710 0 0 52,710 0 0 52,710 0 0 52,710 2,008,703 22,611 1,212,177 1,234,788 0 0 1,234,788 17,349,934	31  19,131 0 0 19,131 0 0 19,131 5,811,907 0 0 0 0 0 30,000 0 30,000 0 0 30,000 0 0 0	30  19,313 0 0 19,313 0 0 19,313 5,831,220  0 0 0 0 0 30,000 30,000 0 30,000 20,611,319  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131 0 0 19,131 0 0 19,131 5,850,351  0 0 0 0 30,000 0 30,000 0 20,641,319  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	365  327,114 0 0 327,114 0 0 327,114 0 0 327,114 - 182,846 540,163 34,675 4,520,000 240,000 5,517,684 0 0 5,517,684 - 367,144 0 0 0 367,144 0 0 367,144 - 154,880 4,182,604 4,337,484 0 0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³)  Pendof-Month Volume (m³)  Portage Pit Runoff (m³)  Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³)  Net Inflow (m³) Pumped From Vault Pit (m³) Pumped From Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  Pumped From Wally Lake (m³)  Total Outflow (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  Pumped From Phaser Pit (m³) Pumped From Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Pumped Toolutflow (m³)	31  19,131 0 0 19,131 0 0 19,131 0 0 19,131 5,542,368  0 0 0 0 30,000 30,000 0 30,000 0 15,153,636  0 0 0 0 0 0 1,641,559  0 0 0 0 1,641,559	28  19,313 0 0 19,313 0 0 19,313 5,561,681  0 0 0 30,000 30,000 0 30,000 15,183,636  0 0 0 0 0 1,641,559  0 0 0 1,641,559	31  19,131 0 0 19,131 0 0 19,131 5,580,812  0 0 0 0 30,000 30,000 0 30,000 15,213,636  0 0 0 0 1,641,559  0 0 0 1,641,559	30  19,131 0 0 19,131 0 0 19,131 0 0 19,131 5,599,943  0 0 0 0 0 30,000 30,000 0 0 30,000 15,243,636  0 0 0 0 0 0 1,641,559 0 0 0 0 1,641,559	31  19,313  0  19,313  0  19,313  0  19,313  5,619,256  0  23,085  0  30,000  53,085  0  0  53,085  15,296,721  0  0  0  0  1,641,559  0  0  0  1,641,559	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,679,972 78,539 267,646 0 1,130,000 0 1,476,185 0 0 1,476,185 16,772,905 183,978 0 0 183,978 0 183,978 1,825,537 66,526 603,783 670,309 0 0 13,682,760	Jul 31 30,242 0 0 0 30,242 0 0 30,242 5,710,214 20,985 184,637 0 1,130,000 0 1,335,622 18,108,527 23,105 0 0 23,105 0 0 23,105 1,848,642 17,775 1,006,306 1,024,081 0 0 1,024,081 14,706,841	31  49,297 0 0 49,297 0 0 49,297 5,759,511  56,628 51,812 0 1,130,000 0 1,238,440 19,346,967  107,352 0 0 107,352 0 107,352 1,955,993  47,967 1,360,338 1,408,305 0 0 1,408,305 16,115,146	30 33,265 0 0 33,265 0 0 33,265 5,792,776 26,694 36,068 11,590 1,130,000 0 1,204,352 20,551,319 52,710 0 0 52,710 0 0 52,710 0 0 52,710 2,008,703 22,611 1,212,177 1,234,788 0 0 1,234,788 17,349,934	31  19,131 0 0 19,131 0 0 19,131 5,811,907 0 0 0 0 0 30,000 0 30,000 0 0 30,000 0 0 0	30  19,313 0 0 19,313 0 0 19,313 5,831,220  0 0 0 0 0 30,000 30,000 0 0 30,000 20,611,319  0 0 0 0 0 0 0 0 0 0 0 0 17,349,934	31  19,131 0 0 19,131 0 0 19,131 0 0 19,131 5,850,351  0 0 0 0 30,000 30,000 0 0 30,000 0 0 0	365  327,114 0 0 0 327,114 0 0 327,114 0 182,846 540,163 34,675 4,520,000 240,000 5,517,684 0 0 5,517,684 - 367,144 0 0 0 367,144 0 0 0 367,144 - 154,880 4,182,604 4,337,484 0 0 4,337,484 - 171,470
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Pumped from Third Portage Lake (m³)  Portage Pit Runoff (m³)  Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  Pumped From Vault Pit (m³) Pumped From Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Phaser Open Pit (including Phaser Lake)  Runoff (m³)  Total Inflow (m³)	31  19,131  0  0  19,131  0  0  19,131  5,542,368  0  0  0  0  30,000  30,000  0  30,000  15,153,636  0  0  0  0  0  0  1,641,559  0  0  0  1,641,559	28  19,313 0 0 19,313 0 0 19,313 5,561,681  0 0 0 30,000 30,000 0 30,000 15,183,636  0 0 0 0 0 1,641,559  0 0 0 1,641,559	31  19,131 0 0 19,131 0 0 19,131 5,580,812  0 0 0 0 30,000 0 30,000 0 15,213,636  0 0 0 0 0 1,641,559  0 0 0 1,641,559	30  19,131 0 0 19,131 0 0 19,131 5,599,943  0 0 0 0 0 30,000 30,000 0 0 30,000 15,243,636  0 0 0 0 0 1,641,559 0 0 0 0 1,641,559	31  19,313  0  19,313  0  19,313  0  19,313  5,619,256  0  23,085  0  30,000  53,085  0  0  53,085  15,296,721  0  0  0  0  0  1,641,559  0  0  1,641,559	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 5,679,972 78,539 267,646 0 1,130,000 0 1,476,185 0 0 1,476,185 0 0 1,476,185 16,772,905 183,978 0 0 183,978 0 0 183,978 1,825,537 66,526 603,783 670,309 0 0 13,682,760	Jul 31 30,242 0 0 0 30,242 0 0 30,242 5,710,214 20,985 184,637 0 1,130,000 0 1,335,622 18,108,527 23,105 0 0 23,105 0 0 23,105 1,848,642 17,775 1,006,306 1,024,081 0 0 1,024,081 14,706,841	31  49,297 0 0 49,297 0 0 49,297 5,759,511  56,628 51,812 0 1,130,000 0 1,238,440 19,346,967  107,352 0 0 107,352 0 107,352 1,955,993  47,967 1,360,338 1,408,305 0 1,408,305 0 1,408,305 16,115,146	30 33,265 0 0 33,265 0 0 33,265 5,792,776 26,694 36,068 11,590 1,130,000 0 1,204,352 20,551,319 52,710 0 0 52,710 0 0 52,710 0 0 52,710 0 0 1,212,177 1,234,788 0 0 1,234,788 17,349,934	31  19,131 0 0 19,131 0 0 19,131 5,811,907 0 0 0 0 0 30,000 0 30,000 0 0 30,000 0 0 0	30  19,313 0 0 19,313 0 0 19,313 5,831,220  0 0 0 0 0 30,000 30,000 0 30,000 0 0 0	31  19,131 0 0 19,131 0 0 19,131 0 0 19,131 5,850,351  0 0 0 0 30,000 30,000 0 0 30,000 0 0 0	365  327,114 0 0 327,114 0 0 327,114 0 182,846 540,163 34,675 4,520,000 240,000 5,517,684 0 0 5,517,684 - 367,144 0 0 0 367,144 0 0 0 367,144 - 154,880 4,182,604 4,337,484 0 0 4,337,484 - 171,470 171,470
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Pumped from Third Portage Lake (m³)  Portage Pit Runoff (m³)  Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  Pumped From Vault Pit (m³) Pumped From Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Inflow (m³)  Phaser Open Pit (including Phaser Lake)  Runoff (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)	31  19,131 0 0 19,131 0 0 19,131 5,542,368  0 0 0 0 30,000 30,000 0 30,000 0 15,153,636  0 0 0 0 0 1,641,559  0 0 0 1,641,559	28  19,313 0 0 19,313 0 0 19,313 5,561,681  0 0 0 30,000 30,000 0 30,000 15,183,636  0 0 0 0 0 0 1,641,559  0 0 0 1,641,559	31  19,131 0 0 19,131 0 0 19,131 5,580,812  0 0 0 0 30,000 30,000 0 30,000 0 15,213,636  0 0 0 0 0 1,641,559  0 0 0 1,641,559	30  19,131 0 0 19,131 0 0 19,131 0 0 19,131 5,599,943  0 0 0 0 0 30,000 30,000 0 0 30,000 0 15,243,636  0 0 0 0 0 1,641,559 0 0 0 0 1,641,559	31  19,313  0  19,313  0  19,313  0  19,313  5,619,256  0  0  23,085  0  30,000  53,085  0  0  53,085  15,296,721  0  0  0  0  0  1,641,559  0  0  0  1,3012,451	Jun 30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 0 78,539 267,646 0 1,130,000 0 1,476,185 0 0 1,476,185 16,772,905 183,978 0 0 183,978 1,825,537 66,526 603,783 670,309 0 13,682,760	Jul 31 30,242 0 0 0 30,242 0 0 30,242 0 0 30,242 5,710,214  20,985 184,637 0 1,130,000 0 1,335,622 18,108,527  23,105 0 0 23,105 0 0 23,105 1,848,642 17,775 1,006,306 1,024,081 0 0 1,024,081 14,706,841	31  49,297 0 0 49,297 0 0 49,297 5,759,511  56,628 51,812 0 1,130,000 0 1,238,440 0 1,238,440 19,346,967  107,352 0 0 107,352 0 107,352 1,955,993  47,967 1,360,338 1,408,305 0 0 1,408,305 1,6115,146	30 33,265 0 0 33,265 0 0 33,265 5,792,776 26,694 36,068 11,590 1,130,000 0 1,204,352 20,551,319 52,710 0 0 52,710 0 0 52,710 0 0 52,710 2,008,703 22,611 1,212,177 1,234,788 0 0 1,234,788 0 0	31  19,131 0 0 19,131 0 0 19,131 5,811,907 0 0 0 0 0 30,000 30,000 0 0 30,000 0 0 0	30  19,313 0 0 19,313 0 0 19,313 5,831,220 0 0 0 0 0 30,000 30,000 0 0 30,000 0 0 0	31  19,131 0 0 19,131 0 0 19,131 0 0 19,131 5,850,351  0 0 0 0 30,000 30,000 0 0 30,000 0 0 0	365  327,114  0  0  327,114  0  0  327,114  0  182,846  540,163  34,675  4,520,000  240,000  5,517,684  0  0  5,517,684  -  367,144  0  0  0  367,144  0  0  367,144  -  154,880  4,182,604  4,337,484  0  0  4,337,484  -  171,470  0

JUNE 2016 D4

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JUNE 2016

				-		Yea	r 2023				•		ANNULAL TOTAL
his sets of	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ANNUAL TOTAL
No. of days Tailings (tonnes):	<b>31</b>	<b>28</b>	<b>31</b> 0	<b>30</b>	<b>31</b>	<b>30</b>	<b>31</b>	<b>31</b>	<b>30</b>	<b>31</b>	<b>30</b>	<b>31</b>	365 0
Cummulative Tailings (tonnes):	36,153,676	36,153,676	36,153,676	36,153,676	36,153,676	36,153,676	36,153,676	36,153,676	36,153,676	36,153,676	36,153,676	36,153,676	-
Cummulative Tailings (tonnes) - North Cell Cummulative Tailings (tonnes) - South Cell	16,178,977 13,845,315	16,178,977 13,845,315	16,178,977 13,845,315	16,178,977 13,845,315	16,178,977 13,845,315	16,178,977 13,845,315	16,178,977 13,845,315	16,178,977 13,845,315	16,178,977 13,845,315	16,178,977 13,845,315	16,178,977 13,845,315	16,178,977 13.845.315	<u> </u>
North Cell (TSF)	13,043,313	13,043,313	13,043,313	13,043,313	13,043,313	13,043,313	15,045,515	13,043,313	13,043,313	13,043,313	13,043,313	13,043,313	_
Starting Pond Volume (m³)	0	0	0	0	0	0	0	0	0	0	0	0	-
Water from tailings slurry (m <sup>3</sup> )	0	0	0	0	0	0 77,826	0 20,794	0 56,114	0 26,452	0	0	0	0 181,187
Runoff (m³)  Total Inflow (m³)	0	0	0	0	0	77,826	20,794	56,114	26,452	0	0	0	181,187
Transfer to South Cell (m³)	0	0	0	0	0	77,826	20,794	56,114	26,452	0	0	0	181,187
Reclaim water to the mill (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Outflow (m³)	0	0	0	0	0	77,826 0	20,794	56,114 0	26,452 0	0	0	0	181,187 0
Net Inflow (m³) End-of-Month Volume (m³)	0	0	0	0	0	0	0	0	0	0	0	0	-
South Cell (TSF)													
Runoff (m³)	0	0	0	0	0	42,909	11,465	30,938	14,584	0	0	0	99,896
Transfer from North Cell (m <sup>3</sup> )	0	0	0	0	0	77,826 120,735	20,794 32,259	56,114 87,052	26,452 41,036	0	0	0	181,187 281,082
Total Inflow (m³)  Reclaim water to the mill (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Transfer to Portage Pit (m³)	0	0	0	0	0	120,735	32,259	87,052	41,036	0	0	0	281,082
Total Outflow (m <sup>3</sup> )	0	0	0	0	0	120,735	32,259	87,052	41,036	0	0	0	281,082
Net Inflow (m <sup>3</sup> )	0	0	0	0	0	0	0	0	0	0	0	0	0
End-of-Month Volume (m³) Mill/Camp	0	0	0	0	0	0	0	0	0	0	0	0	
Ore water (m <sup>3</sup> )	0	0	0	0	0	0	0	0	0	0	0	0	0
Reclaim water (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Freshwater from Third Portage Lake (m³)	2,945	2,660	2,945	2,850	2,945	2,850	2,945	2,945	2,850	2,945	2,850	2,945	34,675
Total Inflow (m³)	2,945 2,945	2,660 2,660	2,945 2,945	2,850 2,850	2,945 2,945	2,850 2,850	2,945 2,945	2,945 2,945	2,850 2,850	2,945 2,945	2,850 2,850	2,945 2,945	34,675 34,675
Freshwater for camp purposes (m <sup>3</sup> )  Slurry water (m <sup>3</sup> )	0	2,660	2,945	2,850	2,945	2,850	2,945	2,945	2,850	2,945	2,850	2,945	34,675
Total Outflow (m³)	2,945	2,660	2,945	2,850	2,945	2,850	2,945	2,945	2,850	2,945	2,850	2,945	34,675
Net Inflow (m <sup>3</sup> )	0	0	0	0	0	0	0	0	0	0	0	0	0
Reclaim water pumping rate (m³/hr)	0	0	0	0	0	0	0	0	0	0	0	0	-
Freshwater pumping rate (m³/hr) TSF Water Balance	4	4	4	4	4	4	4	4	4	4	4	4	
Slurry water (m <sup>3</sup> )	0	0	0	0	0	0	0	0	0	0	0	0	0
Tailings water/ice entrampment (%)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
Void and ice entrapment losses (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Slurry water returned to the pond (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
						Yea	r 2023				l.		ANNUAL TOTAL
No. of Jose	Jan 31	Feb 28	Mar 31	Apr 30	May 31	Jun 30	Jul 31	Aug	Sep 30	Oct 31	Nov 30	Dec 31	365
No. of days Goose Pit (ATP)	31	20	31	30	31	30	31	31	30	31	30	31	303
2	1				40.040	50.745	20.242	40.00=	22.255	40.404		40.404	00= 444
Runoff (m³)	19,131	19,313	19,131	19,131	19,313	60,716	30,242	49,297	33,265	19,131	19,313	19,131	327,114
Transfer from South Cell (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)	0 0 19,131	0 0 19,313	0 0 19,131	0 0 19,131	0 0 19,313	0 0 60,716	0 0 30,242	0 0 49,297	0 0 33,265	0 0 19,131	0 0 19,313	0 0 19,131	0 0 327,114
Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)	0 0 19,131 0 0 19,131	0 0 19,313 0 0 19,313	0 0 19,131 0 0 19,131	0 0 19,131 0 0 19,131	0 0 19,313 0 0 19,313	0 0 60,716 0 0 60,716	0 0 30,242 0 0 30,242	0 0 49,297 0 0 49,297	0 0 33,265 0 0 33,265	0 0 19,131 0 0 19,131	0 0 19,313 0 0 19,313	0 0 19,131 0 0 19,131	0 0 327,114 0
Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)	0 0 19,131 0	0 0 19,313 0	0 0 19,131 0	0 0 19,131 0	0 0 19,313 0	0 0 60,716 0	0 0 30,242 0	0 0 49,297 0	0 0 33,265 0	0 0 19,131 0	0 0 19,313 0	0 0 19,131 0	0 0 327,114 0
Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)	0 0 19,131 0 0 19,131	0 0 19,313 0 0 19,313	0 0 19,131 0 0 19,131	0 0 19,131 0 0 19,131	0 0 19,313 0 0 19,313	0 0 60,716 0 0 60,716	0 0 30,242 0 0 30,242	0 0 49,297 0 0 49,297	0 0 33,265 0 0 33,265	0 0 19,131 0 0 19,131	0 0 19,313 0 0 19,313	0 0 19,131 0 0 19,131	0 0 327,114 0
Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit	0 0 19,131 0 0 19,131 5,869,482	0 0 19,313 0 0 19,313 5,888,795	0 0 19,131 0 0 19,131 5,907,926	0 0 19,131 0 0 19,131 5,927,057	0 0 19,313 0 0 19,313 5,946,370	0 0 60,716 0 0 60,716 6,007,086	0 0 30,242 0 0 30,242 6,037,328	0 0 49,297 0 0 49,297 6,086,625	0 0 33,265 0 0 33,265 6,119,890	0 0 19,131 0 0 19,131 6,139,021	0 0 19,313 0 0 19,313 6,158,334	0 0 19,131 0 0 19,131 6,177,465	0 0 327,114 0 0 327,114
Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit  Runoff (m³)  Transfer from SC (m³)  Sewage water from Tear Drop Lake (m³)	0 0 19,131 0 0 19,131 5,869,482 0 0	0 0 19,313 0 0 19,313 5,888,795	0 0 19,131 0 0 19,131 5,907,926	0 0 19,131 0 0 19,131 5,927,057	0 0 19,313 0 0 19,313 5,946,370 0 0 23,085	0 0 60,716 0 0 60,716 6,007,086 78,539 120,735 0	0 0 30,242 0 0 30,242 6,037,328 20,985 32,259 0	0 0 49,297 0 0 49,297 6,086,625 56,628 87,052 0	0 0 33,265 0 0 33,265 6,119,890 26,694 41,036 11,590	0 0 19,131 0 0 19,131 6,139,021 0 0	0 0 19,313 0 0 19,313 6,158,334	0 0 19,131 0 0 19,131 6,177,465	0 0 327,114 0 0 327,114 - - 182,846 281,082 34,675
Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit  Runoff (m³)  Transfer from SC (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)	0 0 19,131 0 0 19,131 5,869,482 0 0	0 0 19,313 0 0 19,313 5,888,795	0 0 19,131 0 0 19,131 5,907,926	0 0 19,131 0 0 19,131 5,927,057 0 0	0 0 19,313 0 0 19,313 5,946,370 0 0 23,085	0 0 60,716 0 0 60,716 6,007,086 78,539 120,735 0	0 0 30,242 0 0 30,242 6,037,328 20,985 32,259 0 1,130,000	0 0 49,297 0 0 49,297 6,086,625 56,628 87,052 0 1,130,000	0 0 33,265 0 0 33,265 6,119,890 26,694 41,036 11,590 1,130,000	0 0 19,131 0 0 19,131 6,139,021 0 0	0 0 19,313 0 0 19,313 6,158,334 0 0	0 0 19,131 0 0 19,131 6,177,465	0 0 327,114 0 0 327,114 - 182,846 281,082 34,675 4,520,000
Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit  Runoff (m³)  Transfer from SC (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)	0 0 19,131 0 0 19,131 5,869,482 0 0	0 0 19,313 0 0 19,313 5,888,795	0 0 19,131 0 0 19,131 5,907,926	0 0 19,131 0 0 19,131 5,927,057	0 0 19,313 0 0 19,313 5,946,370 0 0 23,085	0 0 60,716 0 0 60,716 6,007,086 78,539 120,735 0	0 0 30,242 0 0 30,242 6,037,328 20,985 32,259 0	0 0 49,297 0 0 49,297 6,086,625 56,628 87,052 0	0 0 33,265 0 0 33,265 6,119,890 26,694 41,036 11,590	0 0 19,131 0 0 19,131 6,139,021 0 0	0 0 19,313 0 0 19,313 6,158,334	0 0 19,131 0 0 19,131 6,177,465	0 0 327,114 0 0 327,114 - - 182,846 281,082 34,675
Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit  Runoff (m³)  Transfer from SC (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)	0 0 19,131 0 0 19,131 5,869,482 0 0 0	0 0 19,313 0 0 19,313 5,888,795 0 0 0 0 30,000	0 0 19,131 0 0 19,131 5,907,926 0 0 0 30,000	0 0 19,131 0 0 19,131 5,927,057 0 0 0 0 30,000	0 0 19,313 0 0 19,313 5,946,370 0 0 23,085 0 30,000	0 0 60,716 0 0 60,716 6,007,086 78,539 120,735 0 1,130,000 0	0 0 30,242 0 0 30,242 6,037,328 20,985 32,259 0 1,130,000 0	0 0 49,297 0 0 49,297 6,086,625 56,628 87,052 0 1,130,000 0	0 0 33,265 0 0 33,265 6,119,890 26,694 41,036 11,590 1,130,000 0	0 0 19,131 0 0 19,131 6,139,021 0 0 0 30,000	0 0 19,313 0 0 19,313 6,158,334 0 0 0	0 0 19,131 0 0 19,131 6,177,465 0 0 0 30,000	0 0 327,114 0 0 327,114 - 182,846 281,082 34,675 4,520,000 240,000
Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit  Runoff (m³)  Transfer from SC (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)	0 0 19,131 0 0 19,131 5,869,482 0 0 0 0 30,000 30,000 0	0 0 19,313 0 0 19,313 5,888,795 0 0 0 0 30,000 30,000 0	0 0 19,131 0 0 19,131 5,907,926 0 0 0 0 30,000 0 0	0 0 19,131 0 0 19,131 5,927,057 0 0 0 0 30,000 30,000 0	0 0 19,313 0 0 19,313 5,946,370 0 0 23,085 0 30,000 53,085 0	0 0 60,716 0 0 60,716 6,007,086 78,539 120,735 0 1,130,000 0 1,329,274 0	0 0 30,242 0 0 30,242 6,037,328 20,985 32,259 0 1,130,000 0 1,183,244 0	0 0 49,297 0 0 49,297 6,086,625 56,628 87,052 0 1,130,000 0 1,273,681 0	0 0 33,265 0 0 33,265 6,119,890 26,694 41,036 11,590 1,130,000 0 1,209,320 0	0 0 19,131 0 0 19,131 6,139,021 0 0 0 0 30,000 0 0	0 0 19,313 0 0 19,313 6,158,334 0 0 0 0 30,000 30,000 0	0 0 19,131 0 0 19,131 6,177,465 0 0 0 0 30,000 30,000 0	0 0 327,114 0 0 327,114 - 182,846 281,082 34,675 4,520,000 240,000 5,258,603 0
Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit  Runoff (m³)  Transfer from SC (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)	0 0 19,131 0 0 19,131 5,869,482 0 0 0 0 30,000 30,000 0 30,000	0 0 19,313 0 0 19,313 5,888,795 0 0 0 0 30,000 0 30,000 0 30,000	0 0 19,131 0 0 19,131 5,907,926 0 0 0 0 30,000 0 30,000 0	0 0 19,131 0 0 19,131 5,927,057 0 0 0 0 30,000 0 30,000 0	0 0 19,313 0 0 19,313 5,946,370 0 0 23,085 0 30,000 53,085 0	0 0 60,716 0 0 60,716 6,007,086 78,539 120,735 0 1,130,000 0 1,329,274 0	0 0 30,242 0 0 30,242 6,037,328 20,985 32,259 0 1,130,000 0 1,183,244 0	0 0 49,297 0 0 49,297 6,086,625 56,628 87,052 0 1,130,000 0 1,273,681 0	0 0 33,265 0 0 33,265 6,119,890 26,694 41,036 11,590 1,130,000 0 1,209,320 0	0 0 19,131 0 0 19,131 6,139,021 0 0 0 0 30,000 0 0 30,000	0 0 19,313 0 0 19,313 6,158,334 0 0 0 0 30,000 0 30,000 0	0 0 19,131 0 0 19,131 6,177,465 0 0 0 0 30,000 0 30,000 0	0 0 327,114 0 0 327,114 - 182,846 281,082 34,675 4,520,000 240,000 5,258,603 0
Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit  Runoff (m³)  Transfer from SC (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)	0 0 19,131 0 0 19,131 5,869,482 0 0 0 0 30,000 30,000 0	0 0 19,313 0 0 19,313 5,888,795 0 0 0 0 30,000 30,000 0	0 0 19,131 0 0 19,131 5,907,926 0 0 0 0 30,000 0 0	0 0 19,131 0 0 19,131 5,927,057 0 0 0 0 30,000 30,000 0	0 0 19,313 0 0 19,313 5,946,370 0 0 23,085 0 30,000 53,085 0	0 0 60,716 0 0 60,716 6,007,086 78,539 120,735 0 1,130,000 0 1,329,274 0	0 0 30,242 0 0 30,242 6,037,328 20,985 32,259 0 1,130,000 0 1,183,244 0	0 0 49,297 0 0 49,297 6,086,625 56,628 87,052 0 1,130,000 0 1,273,681 0	0 0 33,265 0 0 33,265 6,119,890 26,694 41,036 11,590 1,130,000 0 1,209,320 0	0 0 19,131 0 0 19,131 6,139,021 0 0 0 0 30,000 0 0	0 0 19,313 0 0 19,313 6,158,334 0 0 0 0 30,000 30,000 0	0 0 19,131 0 0 19,131 6,177,465 0 0 0 0 30,000 30,000 0	0 0 327,114 0 0 327,114 - 182,846 281,082 34,675 4,520,000 240,000 5,258,603 0
Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit  Runoff (m³)  Transfer from SC (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)	0 0 19,131 0 0 19,131 5,869,482 0 0 0 0 30,000 30,000 0 30,000	0 0 19,313 0 0 19,313 5,888,795 0 0 0 0 30,000 0 30,000 0 30,000	0 0 19,131 0 0 19,131 5,907,926 0 0 0 0 30,000 0 30,000 0	0 0 19,131 0 0 19,131 5,927,057 0 0 0 0 30,000 0 30,000 0	0 0 19,313 0 0 19,313 5,946,370 0 0 23,085 0 30,000 53,085 0	0 0 60,716 0 0 60,716 6,007,086 78,539 120,735 0 1,130,000 0 1,329,274 0	0 0 30,242 0 0 30,242 6,037,328 20,985 32,259 0 1,130,000 0 1,183,244 0	0 0 49,297 0 0 49,297 6,086,625 56,628 87,052 0 1,130,000 0 1,273,681 0	0 0 33,265 0 0 33,265 6,119,890 26,694 41,036 11,590 1,130,000 0 1,209,320 0	0 0 19,131 0 0 19,131 6,139,021 0 0 0 0 30,000 0 0 30,000	0 0 19,313 0 0 19,313 6,158,334 0 0 0 0 30,000 0 30,000 0	0 0 19,131 0 0 19,131 6,177,465 0 0 0 0 30,000 0 30,000 0	0 0 327,114 0 0 327,114 - 182,846 281,082 34,675 4,520,000 240,000 5,258,603 0
Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit  Runoff (m³)  Transfer from SC (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  Ret Inflow (m³)  End-of-Month Volume (m³)  Vault Attenuation Pond	0 0 19,131 0 0 19,131 5,869,482 0 0 0 0 30,000 30,000 0 30,000 20,671,319	0 0 19,313 0 0 19,313 5,888,795 0 0 0 30,000 30,000 0 30,000 20,701,319	0 0 19,131 0 0 19,131 5,907,926 0 0 0 30,000 30,000 0 30,000 20,731,319	0 0 19,131 0 0 19,131 5,927,057 0 0 0 0 30,000 30,000 0 30,000 20,761,319	0 0 19,313 0 0 19,313 5,946,370 0 0 23,085 0 30,000 53,085 0 0 53,085 20,814,404	0 0 60,716 0 0 60,716 6,007,086 78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 22,143,678	0 0 30,242 0 0 30,242 6,037,328 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 23,326,922	0 0 49,297 0 0 49,297 6,086,625 56,628 87,052 0 1,130,000 0 1,273,681 0 0 1,273,681 24,600,602	0 0 33,265 0 0 33,265 6,119,890 26,694 41,036 11,590 1,130,000 0 1,209,320 0 1,209,320 25,809,922	0 0 19,131 0 0 19,131 6,139,021 0 0 0 30,000 30,000 0 30,000 25,839,922	0 0 19,313 0 0 19,313 6,158,334 0 0 0 0 30,000 30,000 0 30,000 25,869,922	0 0 19,131 0 19,131 6,177,465 0 0 0 30,000 30,000 0 30,000 25,899,922	0 0 327,114 0 0 327,114 - 182,846 281,082 34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0
Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit Runoff (m³)  Transfer from SC (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  Net Inflow (m³)  Pumped From Volume (m³)  Vault Attenuation Pond  Runoff (m³)  Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)	0 0 19,131 0 0 19,131 5,869,482 0 0 0 0 30,000 30,000 0 30,000 20,671,319	0 0 19,313 0 0 19,313 5,888,795 0 0 0 30,000 30,000 0 30,000 20,701,319	0 0 19,131 0 0 19,131 5,907,926 0 0 0 30,000 30,000 0 30,000 20,731,319	0 0 19,131 0 0 19,131 5,927,057 0 0 0 30,000 30,000 0 30,000 20,761,319	0 0 19,313 0 0 19,313 5,946,370 0 0 23,085 0 30,000 53,085 0 0 53,085 20,814,404	0 0 60,716 0 0 60,716 6,007,086 78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 22,143,678	0 0 30,242 0 0 30,242 6,037,328 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 23,326,922	0 0 49,297 0 0 49,297 6,086,625 56,628 87,052 0 1,130,000 0 1,273,681 0 0 1,273,681 24,600,602	0 0 33,265 0 0 33,265 6,119,890 26,694 41,036 11,590 1,130,000 0 1,209,320 0 1,209,320 25,809,922	0 0 19,131 0 0 19,131 6,139,021 0 0 0 30,000 30,000 0 30,000 25,839,922	0 0 19,313 0 0 19,313 6,158,334 0 0 0 0 30,000 30,000 0 25,869,922 0 0	0 0 19,131 0 0 19,131 6,177,465 0 0 0 30,000 30,000 0 30,000 25,899,922	0 0 327,114 0 0 327,114 - 182,846 281,082 34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0
Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit Runoff (m³)  Transfer from SC (m³)  Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  Net Inflow (m³)  Pumped From Volume (m³)  Vault Attenuation Pond Runoff (m³)  Pumped From Vault Pit (m³) Pumped From Phaser Pit (m³) Pumped from Wally Lake (m³)	0 0 19,131 0 0 19,131 5,869,482 0 0 0 30,000 30,000 0 30,000 20,671,319	0 0 19,313 0 0 19,313 5,888,795 0 0 0 30,000 30,000 0 30,000 20,701,319	0 0 19,131 0 0 19,131 5,907,926 0 0 0 30,000 30,000 0 30,000 0 20,731,319	0 0 19,131 0 0 19,131 5,927,057 0 0 0 30,000 30,000 0 30,000 20,761,319	0 0 19,313 0 0 19,313 5,946,370 0 23,085 0 30,000 53,085 0 0 53,085 20,814,404	0 0 60,716 0 0 60,716 6,007,086 78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 22,143,678	0 0 30,242 0 0 30,242 6,037,328 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 23,326,922 23,105 0	0 0 49,297 0 0 49,297 6,086,625 56,628 87,052 0 1,130,000 0 1,273,681 0 0 1,273,681 24,600,602	0 0 33,265 0 0 33,265 6,119,890 26,694 41,036 11,590 1,130,000 0 1,209,320 0 1,209,320 25,809,922	0 0 19,131 0 0 19,131 6,139,021 0 0 0 30,000 30,000 0 25,839,922 0 0	0 0 19,313 0 0 19,313 6,158,334 0 0 0 0 30,000 30,000 0 25,869,922 0 0	0 0 19,131 0 19,131 6,177,465 0 0 0 30,000 30,000 0 30,000 25,899,922	0 0 327,114 0 0 327,114 - 182,846 281,082 34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0 0
Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit Runoff (m³)  Transfer from SC (m³)  Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  Net Inflow (m³)  Pumped From Volume (m³)  Yault Attenuation Pond Runoff (m³)  Pumped From Vault Pit (m³)  Pumped From Wally Lake (m³)  Total Inflow (m³)	0 0 19,131 0 0 19,131 5,869,482 0 0 0 0 30,000 30,000 0 30,000 20,671,319	0 0 19,313 0 0 19,313 5,888,795 0 0 0 30,000 30,000 0 30,000 20,701,319	0 0 19,131 0 0 19,131 5,907,926 0 0 0 30,000 30,000 0 30,000 20,731,319	0 0 19,131 0 0 19,131 5,927,057 0 0 0 30,000 30,000 0 30,000 20,761,319	0 0 19,313 0 0 19,313 5,946,370 0 0 23,085 0 30,000 53,085 0 0 53,085 20,814,404	0 0 60,716 0 0 60,716 6,007,086 78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 22,143,678	0 0 30,242 0 0 30,242 6,037,328 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 23,326,922	0 0 49,297 0 0 49,297 6,086,625 56,628 87,052 0 1,130,000 0 1,273,681 0 0 1,273,681 24,600,602	0 0 33,265 0 0 33,265 6,119,890 26,694 41,036 11,590 1,130,000 0 1,209,320 0 1,209,320 25,809,922	0 0 19,131 0 0 19,131 6,139,021 0 0 0 30,000 30,000 0 30,000 25,839,922	0 0 19,313 0 0 19,313 6,158,334 0 0 0 0 30,000 30,000 0 25,869,922 0 0	0 0 19,131 0 0 19,131 6,177,465 0 0 0 30,000 30,000 0 30,000 25,899,922	0 0 327,114 0 0 327,114 - 182,846 281,082 34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0
Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit Runoff (m³)  Transfer from SC (m³)  Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  Net Inflow (m³)  Pumped From Volume (m³)  Vault Attenuation Pond Runoff (m³)  Pumped From Vault Pit (m³) Pumped From Phaser Pit (m³) Pumped from Wally Lake (m³)	0 0 19,131 0 0 19,131 5,869,482 0 0 0 30,000 30,000 0 0 30,000 0 20,671,319	0 0 19,313 0 0 19,313 5,888,795 0 0 0 30,000 30,000 0 30,000 0 20,701,319	0 0 19,131 0 19,131 5,907,926 0 0 0 30,000 30,000 0 30,000 0 20,731,319	0 0 19,131 0 0 19,131 5,927,057 0 0 0 30,000 30,000 0 30,000 20,761,319	0 0 19,313 0 0 19,313 5,946,370 0 0 23,085 0 30,000 53,085 0 0 53,085 20,814,404	0 0 60,716 0 0 60,716 6,007,086 78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 22,143,678	0 0 30,242 0 0 30,242 6,037,328 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 23,326,922 23,105 0	0 0 49,297 0 0 49,297 6,086,625 56,628 87,052 0 1,130,000 0 1,273,681 0 0 1,273,681 24,600,602	0 0 33,265 0 0 33,265 6,119,890 26,694 41,036 11,590 1,130,000 0 1,209,320 0 0 1,209,320 0 0 1,209,320 0 0 0 1,209,320 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 19,131 0 0 19,131 6,139,021 0 0 0 30,000 30,000 0 0 30,000 25,839,922 0 0	0 0 19,313 0 0 19,313 6,158,334 0 0 0 30,000 30,000 0 30,000 25,869,922 0 0	0 0 19,131 0 19,131 6,177,465 0 0 0 30,000 30,000 0 0 30,000 25,899,922	0 0 327,114 0 0 327,114 - 182,846 281,082 34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0 0 0
Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  Portage Pit Runoff (m³)  Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) Pumped From Vault Pit (m³) Pumped From Vault Pit (m³) Pumped from Wally Lake (m³)  Total Inflow (m³) Pumped from Wally Lake (m³)  Total Inflow (m³) Pumped From Wally Lake (m³)  Total Inflow (m³) Decant - TSS to Wally Lake (m³)  Total Outflow (m³) Net Inflow (m³)	0 0 19,131 0 0 19,131 5,869,482 0 0 0 0 30,000 30,000 0 30,000 0 0 0 0	0 0 19,313 0 0 19,313 5,888,795 0 0 0 0 30,000 30,000 0 30,000 0 0 0 0	0 0 19,131 0 19,131 5,907,926 0 0 0 30,000 30,000 0 30,000 0 0 0 0 0	0 0 19,131 0 0 19,131 5,927,057 0 0 0 0 30,000 30,000 0 30,000 0 0 30,000 0 0 0	0 0 19,313 0 0 19,313 5,946,370 0 0 23,085 0 30,000 53,085 0 0 53,085 20,814,404	0 0 0 60,716 0 0 60,716 6,007,086 78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 22,143,678 183,978 0 0 183,978	0 0 30,242 0 0 30,242 6,037,328 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 23,326,922 23,105 0 0 23,105	0 0 49,297 0 0 49,297 6,086,625 56,628 87,052 0 1,130,000 0 1,273,681 0 0 1,273,681 24,600,602 107,352 0 0	0 0 33,265 0 0 33,265 6,119,890 26,694 41,036 11,590 1,130,000 0 1,209,320 0 1,209,320 25,809,922 52,710 0 0 52,710	0 0 19,131 0 0 19,131 6,139,021 0 0 0 30,000 30,000 0 30,000 25,839,922 0 0 0	0 0 19,313 0 0 19,313 6,158,334 0 0 0 0 30,000 30,000 0 30,000 25,869,922 0 0 0 0	0 0 19,131 0 0 19,131 6,177,465 0 0 0 30,000 30,000 0 30,000 25,899,922 0 0 0	0 0 327,114 0 0 327,114 - 182,846 281,082 34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 0 367,144 0 0
Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  Portage Pit Runoff (m³)  Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) Pumped From Vault Pit (m³) Pumped From Vault Pit (m³) Pumped from Wally Lake (m³)  Total Inflow (m³) Pumped From Wally Lake (m³)  Total Inflow (m³) Pumped From Wally Lake (m³)  Total Inflow (m³) Pumped From Vault Pit (m³) Pumped From Vally Lake (m³)  Total Inflow (m³) Decant - TSS to Wally Lake (m³)  Total Outflow (m³) Net Inflow (m³)  End-of-Month Volume (m³)	0 0 19,131 0 0 19,131 5,869,482 0 0 0 30,000 30,000 0 30,000 0 30,000 0 0 0	0 0 19,313 0 0 19,313 5,888,795 0 0 0 30,000 30,000 0 30,000 20,701,319 0 0 0	0 0 19,131 0 19,131 5,907,926 0 0 0 30,000 30,000 0 30,000 20,731,319	0 0 19,131 0 0 19,131 5,927,057 0 0 0 0 30,000 30,000 0 0 30,000 0 0 0	0 0 19,313 0 0 19,313 5,946,370 0 0 23,085 0 30,000 53,085 0 0 53,085 20,814,404	0 0 60,716 0 0 60,716 6,007,086 78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 22,143,678 183,978 0 0 0	0 0 30,242 0 0 30,242 6,037,328 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 23,326,922 23,105 0 0	0 0 49,297 0 0 49,297 6,086,625 56,628 87,052 0 1,130,000 0 1,273,681 0 0 1,273,681 24,600,602 107,352 0 0	0 0 33,265 0 0 33,265 6,119,890 26,694 41,036 11,590 1,130,000 0 1,209,320 0 0 1,209,320 0 0 1,209,320 0 0 52,710 0 0	0 0 19,131 0 0 19,131 6,139,021 0 0 0 30,000 30,000 0 0 30,000 25,839,922	0 0 19,313 0 0 19,313 6,158,334 0 0 0 0 30,000 30,000 0 0 30,000 0 0 0	0 0 19,131 0 0 19,131 6,177,465 0 0 0 30,000 30,000 0 30,000 25,899,922 0 0 0	0 0 327,114 0 0 327,114 - 182,846 281,082 34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0 0 0
Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  Portage Pit Runoff (m³)  Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) Pumped From Vault Pit (m³) Pumped From Vault Pit (m³) Pumped from Wally Lake (m³)  Total Inflow (m³) Pumped from Wally Lake (m³)  Total Inflow (m³) Pumped From Wally Lake (m³)  Total Inflow (m³) Decant - TSS to Wally Lake (m³)  Total Outflow (m³) Net Inflow (m³)	0 0 19,131 0 0 19,131 5,869,482 0 0 0 0 30,000 30,000 0 30,000 0 0 0 0	0 0 19,313 0 0 19,313 5,888,795 0 0 0 0 30,000 30,000 0 30,000 0 0 0 0	0 0 19,131 0 19,131 5,907,926 0 0 0 30,000 30,000 0 30,000 0 0 0 0 0	0 0 19,131 0 0 19,131 5,927,057 0 0 0 0 30,000 30,000 0 30,000 0 0 30,000 0 0 0	0 0 19,313 0 0 19,313 5,946,370 0 0 23,085 0 30,000 53,085 0 0 53,085 20,814,404	0 0 0 60,716 0 0 60,716 6,007,086 78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 22,143,678 183,978 0 0 183,978	0 0 30,242 0 0 30,242 6,037,328 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 23,326,922 23,105 0 0 23,105	0 0 49,297 0 0 49,297 6,086,625 56,628 87,052 0 1,130,000 0 1,273,681 0 0 1,273,681 24,600,602 107,352 0 0	0 0 33,265 0 0 33,265 6,119,890 26,694 41,036 11,590 1,130,000 0 1,209,320 0 1,209,320 25,809,922 52,710 0 0 52,710	0 0 19,131 0 0 19,131 6,139,021 0 0 0 30,000 30,000 0 30,000 25,839,922 0 0 0	0 0 19,313 0 0 19,313 6,158,334 0 0 0 0 30,000 30,000 0 30,000 25,869,922 0 0 0 0	0 0 19,131 0 0 19,131 6,177,465 0 0 0 30,000 30,000 0 30,000 25,899,922 0 0 0	0 0 327,114 0 0 327,114 - 182,846 281,082 34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0 0 0
Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  Portage Pit Runoff (m³)  Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) Pumped From Vault Pit (m³) Pumped From Vault Pit (m³) Pumped from Wally Lake (m³)  Total Inflow (m³) Pumped Tros Wally Lake (m³)  Total Inflow (m³) Pumped From Wally Lake (m³)  Total Inflow (m³) Pumped From Vault Pit (m³) Pumped From Vally Lake (m³)  Total Inflow (m³) Decant - TSS to Wally Lake (m³)  Total Outflow (m³) Net Inflow (m³) End-of-Month Volume (m³)  End-of-Month Volume (m³)  End-of-Month Volume (m³)  End-of-Month Volume (m³)  End-of-Month Volume (m³)  End-of-Month Volume (m³)  Vault Open Pit	0 0 19,131 0 0 19,131 5,869,482 0 0 0 0 30,000 30,000 0 30,000 0 0 0 0	0 0 19,313 0 0 19,313 5,888,795 0 0 0 0 30,000 30,000 0 30,000 0 20,701,319 0 0 0 0	0 0 19,131 0 0 19,131 5,907,926 0 0 0 30,000 30,000 0 30,000 0 0 0 0 0	0 0 19,131 0 0 19,131 5,927,057 0 0 0 0 30,000 30,000 0 30,000 0 0 30,000 0 0 0	0 0 19,313 0 0 19,313 5,946,370 0 0 23,085 0 30,000 53,085 0 0 53,085 20,814,404	0 0 0 60,716 0 0 60,716 6,007,086 78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 22,143,678 183,978 0 0 183,978 0	0 0 30,242 0 0 30,242 6,037,328 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 23,326,922 23,105 0 0 23,105 0 0 23,105 2,215,786	0 0 49,297 0 0 49,297 6,086,625 56,628 87,052 0 1,130,000 0 1,273,681 0 0 1,273,681 24,600,602 107,352 0 0 107,352 0	0 0 33,265 0 0 33,265 6,119,890 26,694 41,036 11,590 1,130,000 0 1,209,320 0 1,209,320 0 1,209,320 0 52,710 0 0 52,710 0 0 52,710 0	0 0 19,131 0 0 19,131 6,139,021 0 0 0 30,000 30,000 0 30,000 0 25,839,922 0 0 0 0 0	0 0 19,313 0 0 19,313 6,158,334 0 0 0 0 30,000 30,000 0 30,000 0 25,869,922 0 0 0 0 0	0 0 19,131 0 0 19,131 6,177,465 0 0 0 30,000 30,000 0 30,000 25,899,922 0 0 0 0 0	0 0 327,114 0 0 327,114 - 182,846 281,082 34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 0 0 367,144 0 0 0 367,144
Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit Runoff (m³)  Transfer from SC (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Net Inflow (m³)  Net Inflow (m³)  Pumped From Vault Pit (m³)  Pumped From Vault Pit (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  Pend-of-Month Volume (m³)  Pumped From Phaser Pit (m³)  Pumped From Vault Pit (m³)  Pumped From Vally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)	0 0 19,131 0 0 19,131 5,869,482 0 0 0 0 30,000 30,000 0 30,000 0 0 0 0	0 0 19,313 0 0 19,313 5,888,795 0 0 0 0 30,000 30,000 0 30,000 0 20,701,319 0 0 0 0 0	0 0 19,131 0 0 19,131 5,907,926 0 0 0 0 30,000 30,000 0 30,000 0 0 0 0	0 0 19,131 0 0 19,131 5,927,057 0 0 0 0 30,000 30,000 0 30,000 0 20,761,319 0 0 0 0 0	0 0 19,313 0 0 19,313 5,946,370 0 0 23,085 0 30,000 53,085 0 0 53,085 20,814,404 0 0 0 0 0	0 0 0 60,716 0 0 60,716 6,007,086 78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 22,143,678 183,978 0 0 183,978 0	0 0 30,242 0 0 30,242 6,037,328 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 23,326,922 23,105 0 0 23,105 0 0 23,105 2,215,786	0 0 49,297 0 0 49,297 6,086,625 56,628 87,052 0 1,130,000 0 1,273,681 0 0 1,273,681 24,600,602 107,352 0 0 107,352 0 107,352 0 107,352 0	0 0 33,265 0 0 33,265 6,119,890 26,694 41,036 11,590 1,130,000 0 1,209,320 0 1,209,320 25,809,922 52,710 0 0 52,710 0 0 52,710 2,375,847 22,611 1,212,177 1,234,788	0 0 19,131 0 0 19,131 6,139,021 0 0 0 0 30,000 0 30,000 0 25,839,922 0 0 0 0 0 0 25,839,922	0 0 19,313 0 0 19,313 6,158,334 0 0 0 0 30,000 30,000 0 30,000 25,869,922 0 0 0 0 0 0 0 0 25,869,922	0 0 19,131 0 0 19,131 6,177,465 0 0 0 30,000 30,000 0 30,000 25,899,922 0 0 0 0 0 0 0 2,375,847	0 0 327,114 0 0 327,114 - 0 182,846 281,082 34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0 0 0 367,144 - 154,880 4,182,604 4,337,484
Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit  Runoff (m³)  Transfer from SC (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Net Inflow (m³)  Pumped Trom Volume (m³)  Vault Attenuation Pond  Runoff (m³)  Pumped From Phaser Pit (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  Pumped From Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  Peant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  Pumped from Wally Lake (m³)	0 0 19,131 0 0 19,131 5,869,482 0 0 0 0 30,000 30,000 0 30,000 20,671,319 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 19,313 0 0 19,313 5,888,795 0 0 0 0 30,000 30,000 0 30,000 20,701,319 0 0 0 0 0 0 20,701,319	0 0 19,131 0 19,131 5,907,926 0 0 0 30,000 30,000 0 30,000 0 20,731,319 0 0 0 0 0 0 0	0 0 19,131 0 0 19,131 5,927,057 0 0 0 30,000 30,000 0 30,000 0 20,761,319 0 0 0 0 0 2,008,703	0 0 19,313 0 0 19,313 5,946,370 0 0 23,085 0 30,000 53,085 0 0 53,085 20,814,404 0 0 0 0 0 0 0 0 0	0 0 0 60,716 0 0 60,716 6,007,086 78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 22,143,678 183,978 0 0 183,978 0 0 183,978 0 0 0 183,978 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 30,242 0 0 30,242 6,037,328 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 23,326,922 23,105 0 0 23,105 0 23,105 2,215,786 17,775 1,006,306 1,024,081 0	0 0 49,297 0 0 49,297 6,086,625 56,628 87,052 0 1,130,000 0 1,273,681 0 0 1,273,681 24,600,602 107,352 0 0 107,352 0 107,352 0 107,352 0 107,352 0 107,352 0 107,352	0 0 33,265 0 0 33,265 6,119,890 26,694 41,036 11,590 1,130,000 0 1,209,320 0 1,209,320 0 0 1,209,320 0 0 0 0 1,209,320 0 0 0 0 0 1,2710 0 0 0 52,710 0 0 52,710 2,375,847 22,611 1,212,177 1,234,788 0	0 0 19,131 0 0 19,131 6,139,021 0 0 0 0 30,000 30,000 0 30,000 25,839,922 0 0 0 0 0 0 25,839,922	0 0 19,313 0 0 19,313 6,158,334 0 0 0 0 30,000 30,000 0 30,000 25,869,922 0 0 0 0 0 0 2,375,847	0 0 19,131 0 0 19,131 6,177,465 0 0 0 30,000 30,000 0 30,000 25,899,922 0 0 0 0 0 0 2,375,847	0 0 327,114 0 0 327,114 - 182,846 281,082 34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0 0 0 367,144 - 154,880 4,182,604 4,337,484 0
Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit Runoff (m³)  Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) Pumped From Vault Pit (m³) Pumped From Phaser Pit (m³) Pumped from Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³) Pumped From Wally Lake (m³)  Total Inflow (m³) Pumped from Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³) Pumped from Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³) Pumped from Wally Lake (m³)  Total Outflow (m³) Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)	0 0 19,131 0 0 19,131 5,869,482 0 0 0 30,000 30,000 0 30,000 20,671,319 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 19,313 0 0 19,313 5,888,795 0 0 0 0 30,000 30,000 0 30,000 20,701,319 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 19,131 0 19,131 5,907,926 0 0 0 30,000 30,000 0 30,000 20,731,319 0 0 0 0 0 0 0	0 0 19,131 0 0 19,131 5,927,057 0 0 0 0 30,000 30,000 0 30,000 20,761,319 0 0 0 0 0 0 0 0 0	0 0 19,313 0 0 19,313 5,946,370 0 23,085 0 30,000 53,085 0 0 53,085 20,814,404 0 0 0 0 0 0 0 0 0	0 0 60,716 0 0 60,716 6,007,086 78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 22,143,678 183,978 0 0 183,978 0 0 183,978 0 0 0 183,978 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 30,242 0 0 30,242 6,037,328 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 23,326,922 23,105 0 0 23,105 0 0 23,105 2,215,786 17,775 1,006,306 1,024,081 0	0 0 49,297 0 0 49,297 6,086,625 56,628 87,052 0 1,130,000 0 1,273,681 24,600,602 107,352 0 0 107,352 0 107,352 2,323,137 47,967 1,360,338 1,408,305 0	0 0 33,265 0 0 33,265 6,119,890 26,694 41,036 11,590 1,130,000 0 1,209,320 0 1,209,320 0 0 1,209,320 0 0 0 52,710 0 0 52,710 0 0 52,710 0 2,375,847 22,611 1,212,177 1,234,788 0	0 0 19,131 0 0 19,131 6,139,021 0 0 0 0 30,000 30,000 0 30,000 25,839,922 0 0 0 0 0 0 23,839,922	0 0 19,313 0 0 19,313 6,158,334 0 0 0 0 30,000 30,000 0 30,000 25,869,922 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 19,131 0 0 19,131 6,177,465 0 0 0 30,000 30,000 0 30,000 25,899,922 0 0 0 0 0 0 2,375,847	0 0 327,114 0 0 327,114 - 182,846 281,082 34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0 0 0 367,144 - 154,880 4,182,604 4,337,484 0 0
Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  Portage Pit Runoff (m³)  Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) Pumped From Vault Pit (m³) Pumped From Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³) Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Total Inflow (m³) Net Inflow (m³)  Total Outflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Total Inflow (m³) Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)	0 0 19,131 0 0 19,131 5,869,482 0 0 0 0 30,000 30,000 0 30,000 20,671,319 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 19,313 0 0 19,313 5,888,795 0 0 0 0 30,000 30,000 0 30,000 20,701,319 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 19,131 0 19,131 5,907,926 0 0 0 30,000 30,000 0 30,000 0 0 0 0 0	0 0 19,131 0 0 19,131 5,927,057 0 0 0 30,000 30,000 0 30,000 20,761,319 0 0 0 0 0 2,008,703 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 19,313 0 0 19,313 5,946,370 0 23,085 0 30,000 53,085 0 0 53,085 20,814,404 0 0 0 0 0 0 0 0 0 0	0 0 60,716 0 0 60,716 6,007,086 78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 22,143,678 183,978 0 0 183,978 0 0 183,978 0 0 0 183,978 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 30,242 0 0 30,242 6,037,328 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 23,326,922 23,105 0 0 23,105 0 0 23,105 0 1,7775 1,006,306 1,024,081 0 0 1,024,081	0 0 49,297 0 0 49,297 6,086,625 56,628 87,052 0 1,130,000 0 1,273,681 0 0 1,273,681 24,600,602 107,352 0 0 107,352 2,323,137 47,967 1,360,338 1,408,305 0 1,408,305	0 0 33,265 0 0 33,265 6,119,890 26,694 41,036 11,590 1,130,000 0 1,209,320 0 1,209,320 0 0 1,209,320 0 0 0 52,710 0 0 52,710 0 0 52,710 0 2,375,847 22,611 1,212,177 1,234,788 0 0 1,234,788	0 0 19,131 0 0 19,131 6,139,021 0 0 0 0 30,000 30,000 0 30,000 25,839,922 0 0 0 0 0 0 0 0 25,839,922	0 0 19,313 0 0 19,313 6,158,334 0 0 0 0 30,000 30,000 0 30,000 25,869,922 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 19,131 0 0 19,131 6,177,465 0 0 0 30,000 30,000 25,899,922 0 0 0 0 0 0 2,375,847	0 0 327,114 0 0 327,114 - 182,846 281,082 34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0 0 0 367,144 - 154,880 4,182,604 4,337,484 0
Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit Runoff (m³)  Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) Pumped From Vault Pit (m³) Pumped From Phaser Pit (m³) Pumped from Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³) Pumped From Wally Lake (m³)  Total Inflow (m³) Pumped from Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³) Pumped from Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³) Pumped from Wally Lake (m³)  Total Outflow (m³) Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)	0 0 19,131 0 0 19,131 5,869,482 0 0 0 30,000 30,000 0 30,000 20,671,319 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 19,313 0 0 19,313 5,888,795 0 0 0 0 30,000 30,000 0 30,000 20,701,319 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 19,131 0 19,131 5,907,926 0 0 0 30,000 30,000 0 30,000 20,731,319 0 0 0 0 0 0 0	0 0 19,131 0 0 19,131 5,927,057 0 0 0 0 30,000 30,000 0 30,000 20,761,319 0 0 0 0 0 0 0 0 0	0 0 19,313 0 0 19,313 5,946,370 0 23,085 0 30,000 53,085 0 0 53,085 20,814,404 0 0 0 0 0 0 0 0 0 0	0 0 60,716 0 0 60,716 6,007,086 78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 22,143,678 183,978 0 0 183,978 0 0 183,978 0 0 0 183,978 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 30,242 0 0 30,242 6,037,328 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 23,326,922 23,105 0 0 23,105 0 0 23,105 2,215,786 17,775 1,006,306 1,024,081 0	0 0 49,297 0 0 49,297 6,086,625 56,628 87,052 0 1,130,000 0 1,273,681 24,600,602 107,352 0 0 107,352 0 107,352 2,323,137 47,967 1,360,338 1,408,305 0	0 0 33,265 0 0 33,265 6,119,890 26,694 41,036 11,590 1,130,000 0 1,209,320 0 1,209,320 0 0 1,209,320 0 0 0 52,710 0 0 52,710 0 0 52,710 0 2,375,847 22,611 1,212,177 1,234,788 0	0 0 19,131 0 0 19,131 6,139,021 0 0 0 0 30,000 30,000 0 30,000 25,839,922 0 0 0 0 0 0 23,839,922	0 0 19,313 0 0 19,313 6,158,334 0 0 0 0 30,000 30,000 0 30,000 25,869,922 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 19,131 0 0 19,131 6,177,465 0 0 0 30,000 30,000 0 30,000 25,899,922 0 0 0 0 0 0 2,375,847	0 0 327,114 0 0 327,114 - 182,846 281,082 34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0 0 0 367,144 - 154,880 4,182,604 4,337,484 0 0 4,337,484
Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  Portage Pit  Runoff (m³)  Transfer from SC (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Pumped From Vault Pit (m³)  Pumped From Vault Pit (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Net Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Total Outflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Pumped to Vault Attenuation Pond (m³)  Phaser Open Pit (including Phaser Lake)  Runoff (m³)	0 0 19,131 0 0 19,131 5,869,482 0 0 0 0 30,000 30,000 0 0 30,000 20,671,319 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 19,313 0 0 19,313 5,888,795 0 0 0 0 30,000 30,000 0 0 30,000 20,701,319 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 19,131 0 0 19,131 5,907,926 0 0 0 0 30,000 30,000 0 0 0 0 0 0 0 0 0	0 0 19,131 0 0 19,131 5,927,057 0 0 0 0 30,000 30,000 0 0 30,000 20,761,319 0 0 0 0 0 0 0 0 0 0 0 0 0 10,000 0 0 0	0 0 19,313 0 0 19,313 5,946,370 0 0 23,085 0 30,000 53,085 0 0 53,085 20,814,404 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 60,716 0 0 60,716 6,007,086 78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 22,143,678 183,978 0 0 183,978 0 0 183,978 0 0 0 183,978 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 30,242 0 0 30,242 6,037,328 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 23,326,922 23,105 0 0 23,105 0 0 23,105 0 1,7775 1,006,306 1,024,081 0 0 1,024,081	0 0 49,297 0 0 49,297 6,086,625 56,628 87,052 0 1,130,000 0 1,273,681 0 0 1,273,681 24,600,602 107,352 0 0 107,352 2,323,137 47,967 1,360,338 1,408,305 0 1,408,305	0 0 33,265 0 0 33,265 6,119,890 26,694 41,036 11,590 1,130,000 0 1,209,320 0 1,209,320 0 0 1,209,320 0 0 0 52,710 0 0 52,710 0 0 52,710 0 2,375,847 22,611 1,212,177 1,234,788 0 0 1,234,788	0 0 19,131 0 0 19,131 6,139,021 0 0 0 0 30,000 30,000 0 0 0 0 0 0 0 0 0	0 0 19,313 0 0 19,313 6,158,334 0 0 0 0 0 30,000 30,000 0 0 0 0 0 0 0 0	0 0 19,131 0 0 19,131 6,177,465 0 0 0 30,000 30,000 0 0 0 0 0 0 0 0 0 0	0 0 327,114 0 0 327,114 - 182,846 281,082 34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0 0 0 367,144 154,880 4,182,604 4,337,484 0 0 4,337,484 - 171,470
Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit Runoff (m³)  Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) Pumped From Vault Pit (m³) Pumped From Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³) Net Inflow (m³)  End-of-Month Volume (m³)  Yault Open Pit Runoff (m³) Pumped from Wally Lake (m³)  Total Inflow (m³) Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³) Pumped from Wally Lake (m³)  Total Outflow (m³) Pumped from Wally Lake (m³)  Total Inflow (m³) Pumped from Wally Lake (m³)  Total Outflow (m³) Phaser Open Pit (including Phaser Lake) Runoff (m³)  Total Inflow (m³)	0 0 19,131 0 0 19,131 5,869,482 0 0 0 0 30,000 0 30,000 0 0 0 0 0 0 0 0	0 0 19,313 0 0 19,313 5,888,795 0 0 0 0 30,000 30,000 0 0 30,000 20,701,319 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 19,131 0 0 19,131 5,907,926 0 0 0 30,000 30,000 0 0 30,000 20,731,319 0 0 0 0 0 0 0 0 17,349,934	0 0 19,131 0 0 19,131 5,927,057 0 0 0 0 30,000 30,000 0 0 30,000 20,761,319 0 0 0 0 0 0 0 0 0 0 0 0 10,000 0 0 0 0	0 0 19,313 0 0 19,313 5,946,370 0 0 23,085 0 30,000 53,085 0 0 53,085 20,814,404 0 0 0 0 0 0 0 0 0 17,349,934	0 0 60,716 0 0 60,716 6,007,086 78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 22,143,678 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 0 183,978 0 0 0 183,978 0 0 0 183,978 0 0 0 183,978 0 0 0 183,978 0 0 0 183,978 0 0 0 183,978 0 0 0 0 183,978 0 0 0 183,978 0 0 0 183,978 0 0 0 183,978 0 0 0 0 0 183,978 0 0 0 0 0 0 183,978 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 30,242 0 0 30,242 6,037,328 20,985 32,259 0 1,130,000 0 1,183,244 0 0 0 1,183,244 23,326,922 23,105 0 0 23,105 0 0 23,105 2,215,786 1,7775 1,006,306 1,024,081 0 0 1,024,081 19,044,325	0 0 49,297 0 0 49,297 6,086,625 56,628 87,052 0 1,130,000 0 1,273,681 0 0 1,273,681 24,600,602 107,352 0 0 107,352 0 0 107,352 2,323,137 47,967 1,360,338 1,408,305 0 0 1,408,305 20,452,629	0 0 33,265 0 0 33,265 6,119,890 26,694 41,036 11,590 1,130,000 0 1,209,320 0 0 1,209,320 25,809,922 52,710 0 0 0 52,710 0 0 52,710 0 2,375,847 22,611 1,212,177 1,234,788 0 0 1,234,788 21,687,418	0 0 19,131 0 0 19,131 6,139,021 0 0 0 0 30,000 30,000 0 0 0 0 0 0 0 0 0	0 0 19,313 0 0 19,313 6,158,334 0 0 0 0 0 30,000 0 30,000 0 0 0 0 0 0 0	0 0 19,131 0 0 19,131 6,177,465 0 0 0 30,000 30,000 0 0 0 0 0 0 0 0 0 0	0 0 327,114 0 0 327,114 - 0 182,846 281,082 34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0 0 0 367,144 - 154,880 4,182,604 4,337,484 0 0 4,337,484 - 171,470 171,470
Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Net Inflow (m³)  Portage Pit  Runoff (m³)  Transfer from SC (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Net Inflow (m³)  Pumped From Vault Pit (m³)  Pumped From Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped From Vault Pit (m³)  Pumped From Vally Lake (m³)  Total Inflow (m³)  Net Inflow (m³)  Pumped From Vally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  Pumped From Volume (m³)  Not Inflow (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Inflow (m³)  Phaser Open Pit (including Phaser Lake)  Runoff (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)	0 0 19,131 0 0 19,131 5,869,482 0 0 0 0 30,000 30,000 0 0 30,000 0 0 0	0 0 19,313 0 0 19,313 5,888,795 0 0 0 0 30,000 30,000 0 0 30,000 0 0 0	0 0 19,131 0 0 19,131 5,907,926 0 0 0 0 30,000 30,000 0 0 30,000 0 0 0	0 0 19,131 0 0 19,131 5,927,057 0 0 0 0 30,000 30,000 0 0 30,000 0 0 0	0 0 19,313 0 0 19,313 5,946,370 0 0 23,085 0 30,000 53,085 0 0 0 53,085 20,814,404 0 0 0 0 0 0 0 0 2,008,703	0 0 60,716 0 0 60,716 6,007,086 78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 22,143,678 183,978 0 0 0 183,978 0 0 183,978 0 0 0 183,978 0 0 0 183,978 0 0 0 183,978 0 0 0 183,978 0 0 0 183,978 0 0 0 183,978 0 0 0 0 0 0 183,078 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 30,242 0 0 30,242 6,037,328 20,985 32,259 0 1,130,000 0 1,183,244 0 0 0 1,183,244 23,326,922 23,105 0 0 0 23,105 0 0 23,105 2,215,786 17,775 1,006,306 1,024,081 0 0 1,024,081 19,044,325	0 0 49,297 0 0 49,297 6,086,625 56,628 87,052 0 1,130,000 0 1,273,681 0 0 1,273,681 24,600,602 107,352 0 0 107,352 0 0 107,352 0 107,352 0 107,352 0 107,352 0 107,352 0 107,352 0 107,352 0 107,352 0 107,352 0 107,352 0 107,352 0 107,352 0 107,352 0 107,352 0 107,352	0 0 33,265 0 0 33,265 6,119,890 26,694 41,036 11,590 1,130,000 0 1,209,320 0 0 1,209,320 0 0 1,209,320 0 0 0 52,710 0 0 52,710 0 0 52,710 2,375,847 22,611 1,212,177 1,234,788 0 0 1,234,788 0 1,234,788 0 0 1,234,788 0 0	0 0 19,131 0 0 19,131 6,139,021 0 0 0 30,000 30,000 0 0 0 0 0 0 0 0 0 0	0 0 19,313 0 0 19,313 6,158,334 0 0 0 0 0 30,000 30,000 0 0 0 0 0 0 0 0	0 0 19,131 0 0 19,131 6,177,465 0 0 0 0 30,000 30,000 0 0 0 0 0 0 0 0 0	0 0 327,114 0 0 327,114 - 182,846 281,082 34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0 0 0 367,144 154,880 4,182,604 4,337,484 0 0 4,337,484 - 171,470 171,470 0
Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) Net Inflow (m³)  Portage Pit Runoff (m³)  Transfer from SC (m³)  Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) Pumped From Vault Pit (m³) Pumped From Vault Pit (m³) Pumped From Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Inflow (m³) Net Inflow (m³) Net Inflow (m³) Net Inflow (m³) Pumped from Wally Lake (m³)  Total Inflow (m³) Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³) Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Inflow (m³) Pumped to Vault Attenuation Pond (m³)  Total Inflow (m³) Pumped to Vault Attenuation Pond (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)	0 0 19,131 0 0 19,131 5,869,482 0 0 0 0 30,000 0 30,000 0 0 0 0 0 0 0 0	0 0 19,313 0 0 19,313 5,888,795 0 0 0 0 30,000 30,000 0 0 30,000 20,701,319 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 19,131 0 0 19,131 5,907,926 0 0 0 30,000 30,000 0 0 30,000 20,731,319 0 0 0 0 0 0 0 0 17,349,934	0 0 19,131 0 0 19,131 5,927,057 0 0 0 0 30,000 30,000 0 0 30,000 20,761,319 0 0 0 0 0 0 0 0 0 0 0 0 10,000 0 0 0 0	0 0 19,313 0 0 19,313 5,946,370 0 0 23,085 0 30,000 53,085 0 0 53,085 20,814,404 0 0 0 0 0 0 0 0 0 17,349,934	0 0 60,716 0 0 60,716 6,007,086 78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 22,143,678 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 0 183,978 0 0 0 183,978 0 0 0 183,978 0 0 0 183,978 0 0 0 183,978 0 0 0 183,978 0 0 0 183,978 0 0 0 0 183,978 0 0 0 183,978 0 0 0 183,978 0 0 0 183,978 0 0 0 0 183,978 0 0 0 0 0 183,978 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 30,242 0 0 30,242 6,037,328 20,985 32,259 0 1,130,000 0 1,183,244 0 0 0 1,183,244 23,326,922 23,105 0 0 23,105 0 0 23,105 2,215,786 1,7775 1,006,306 1,024,081 0 0 1,024,081 19,044,325	0 0 49,297 0 0 49,297 6,086,625 56,628 87,052 0 1,130,000 0 1,273,681 0 0 1,273,681 24,600,602 107,352 0 0 107,352 0 0 107,352 2,323,137 47,967 1,360,338 1,408,305 0 0 1,408,305 20,452,629	0 0 33,265 0 0 33,265 6,119,890 26,694 41,036 11,590 1,130,000 0 1,209,320 0 0 1,209,320 25,809,922 52,710 0 0 0 52,710 0 0 52,710 0 2,375,847 22,611 1,212,177 1,234,788 0 0 1,234,788 21,687,418	0 0 19,131 0 0 19,131 6,139,021 0 0 0 0 30,000 30,000 0 0 0 0 0 0 0 0 0	0 0 19,313 0 0 19,313 6,158,334 0 0 0 0 0 30,000 0 30,000 0 0 0 0 0 0 0	0 0 19,131 0 0 19,131 6,177,465 0 0 0 30,000 30,000 0 0 0 0 0 0 0 0 0 0	0 0 327,114 0 0 327,114 - 0 182,846 281,082 34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0 0 0 367,144 - 154,880 4,182,604 4,337,484 0 0 4,337,484 - 171,470 171,470
Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Net Inflow (m³)  Portage Pit  Runoff (m³)  Transfer from SC (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Net Inflow (m³)  Pumped From Vault Pit (m³)  Pumped From Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped From Vault Pit (m³)  Pumped From Vally Lake (m³)  Total Inflow (m³)  Net Inflow (m³)  Pumped From Vally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  Pumped From Volume (m³)  Not Inflow (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Inflow (m³)  Phaser Open Pit (including Phaser Lake)  Runoff (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)	0 0 19,131 0 0 19,131 5,869,482 0 0 0 0 30,000 30,000 0 0 30,000 0 0 0	0 0 19,313 0 0 19,313 5,888,795 0 0 0 0 30,000 30,000 0 0 30,000 0 0 0	0 0 19,131 0 0 19,131 5,907,926 0 0 0 30,000 30,000 0 30,000 0 0 30,000 0 0 0	0 0 19,131 0 0 19,131 5,927,057 0 0 0 0 30,000 30,000 0 0 30,000 0 0 0	0 0 19,313 0 0 19,313 5,946,370 0 0 23,085 0 30,000 53,085 0 0 0 53,085 20,814,404 0 0 0 0 0 0 0 0 2,008,703	0 0 0 60,716 0 0 60,716 6,007,086 78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 22,143,678 183,978 0 0 0 183,978 0 0 183,978 2,192,681 66,526 603,783 670,309 0 0 0 18,020,243 73,652 73,652 0 0	0 0 30,242 0 0 30,242 6,037,328 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 23,326,922 23,105 0 0 23,105 0 0 23,105 2,215,786 17,775 1,006,306 1,024,081 0 0 1,024,081 19,044,325	0 0 49,297 0 0 49,297 6,086,625 56,628 87,052 0 1,130,000 0 1,273,681 0 0 1,273,681 24,600,602 107,352 0 0 107,352 0 107,352 0 107,352 0 107,352 0 107,352 0 107,352 0 107,352 0 107,352 0 107,352 0 107,352 0 107,352 107,452	0 0 33,265 0 0 33,265 6,119,890 26,694 41,036 11,590 1,130,000 0 1,209,320 0 0 1,209,320 0 0 1,209,320 0 0 0 52,710 0 0 52,710 0 0 52,710 2,375,847 22,611 1,212,177 1,234,788 0 0 1,234,788 21,687,418	0 0 19,131 0 0 19,131 6,139,021 0 0 0 0 30,000 30,000 0 0 0 0 0 0 0 0 0	0 0 19,313 0 0 19,313 6,158,334 0 0 0 0 0 30,000 30,000 0 0 0 0 0 0 0 0	0 0 19,131 0 0 19,131 6,177,465 0 0 0 0 30,000 30,000 0 0 0 0 0 0 0 0 0	0 0 327,114 0 0 327,114 0 182,846 281,082 34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0 0 0 367,144 0 0 0 367,144 154,880 4,182,604 4,337,484 0 0 0 4,337,484 - 171,470 171,470 0 0

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						Yea	r 2024						ANNUAL TOTAL
No. of Jose	Jan	Feb	Mar	Apr	May	Jun	Jul 21	Aug	Sep	Oct	Nov	Dec	
No. of days Tailings (tonnes):	<b>31</b>	<b>29</b> 0	<b>31</b>	<b>30</b>	<b>31</b>	<b>30</b>	<b>31</b>	<b>31</b> 0	<b>30</b>	<b>31</b>	<b>30</b>	<b>31</b> 0	366 0
Cummulative Tailings (tonnes):	36,153,676	36,153,676	36,153,676	36,153,676	36,153,676	36,153,676	36,153,676	36,153,676	36,153,676	36,153,676	36,153,676	36,153,676	-
Cummulative Tailings (m3) - North Cell	16,178,977	16,178,977	16,178,977	16,178,977	16,178,977	16,178,977	16,178,977	16,178,977	16,178,977	16,178,977	16,178,977	16,178,977	-
Cummulative Tailings (m3) - South Cell North Cell (TSF)	13,845,315	13,845,315	13,845,315	13,845,315	13,845,315	13,845,315	13,845,315	13,845,315	13,845,315	13,845,315	13,845,315	13,845,315	-
Starting Pond Volume (m³)	0	0	0	0	0	0	0	0	0	0	0	0	-
Water from tailings slurry (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Runoff (m³)	0	0	0	0	0	77,826	20,794	56,114	26,452	0	0	0	181,187
Total Inflow (m <sup>3</sup> )	0	0	0	0	0	77,826	20,794	56,114	26,452	0	0	0	181,187
Transfer to South Cell (m³)	0	0	0	0	0	77,826	20,794	56,114	26,452	0	0	0	181,187 0
Reclaim water to the mill (m³)	0	0	0	0	0	0 77,826	0 20,794	0 56,114	0 26,452	0	0	0	181,187
Total Outflow (m³)  Net Inflow (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
End-of-Month Volume (m³)	0	0	0	0	0	0	0	0	0	0	0	0	-
South Cell (TSF)													
Runoff (m³)	0	0	0	0	0	42,909	11,465	30,938	14,584	0	0	0	99,896
Transfer from North Cell (m³)	0	0	0	0	0	77,826	20,794	56,114	26,452	0	0	0	181,187
Total Inflow (m <sup>3</sup> )  Reclaim water to the mill (m <sup>3</sup> )	0	0	0	0	0	120,735 0	32,259 0	87,052 0	41,036 0	0	0	0	281,082 0
Transfer to Portage Pit (m³)	0	0	0	0	0	120,735	32,259	87,052	41,036	0	0	0	281,082
Total Outflow (m³)	0	0	0	0	0	120,735	32,259	87,052	41,036	0	0	0	281,082
Net Inflow (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
End-of-Month Volume (m³)	0	0	0	0	0	0	0	0	0	0	0	0	-
Mill/Camp	1 .												
Ore water (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Reclaim water (m³)  Freshwater from Third Portage Lake (m³)	0 2,945	0 2,755	0 2,945	0 2,850	0 2,945	0 2,850	0 2,945	0 2,945	0 2,850	0 2,945	0 2,850	0 2,945	0 34,770
Total Inflow (m <sup>3</sup> )	2,945	2,755	2,945	2,850	2,945	2,850	2,945	2,945	2,850	2,945	2,850	2,945	34,770
Freshwater for camp purposes (m <sup>3</sup> )	2,945	2,755	2,945	2,850	2,945	2,850	2,945	2,945	2,850	2,945	2,850	2,945	34,770
Slurry water (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Outflow (m³)	2,945	2,755	2,945	2,850	2,945	2,850	2,945	2,945	2,850	2,945	2,850	2,945	34,770
Net Inflow (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Reclaim water pumping rate (m³/hr)	0	0	0	0	0	0	0	0	0	0	0	0	-
Freshwater pumping rate (m³/hr)	4	4	4	4	4	4	4	4	4	4	4	4	-
TSF Water Balance Slurry water (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Tailings water/ice entrampment (%)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
Void and ice entrapment losses (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Slurry water returned to the pond (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
	Jan	Feb	Mar	Apr	May	Jun	r 2024 Jul	Aug	Sep	Oct	Nov	Dec	ANNUAL TOTAL
No. of days	31	28	31	30	31	30	31	31	30	31	30	31	365
Goose Pit (ATP)	10.404	40.040	40.404	40.404	40.040	50.745	20.242	40.007	22.255	40.404	40.040	40.404	00= 111
Runoff (m³)	19,131	19,313 0	19,131	19,131	19,313 0	60,716	30,242 0	49,297 0	33,265 0	19,131 0	19,313 0	19,131 0	327,114 0
Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Inflow (m <sup>3</sup> )	19,131	19,313	19,131	19,131	19,313	60,716	30,242	49,297	33,265	19,131	19,313	19,131	327,114
Pumped to Attenuation Pond (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Outflow (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Net Inflow (m <sup>3</sup> )	19,131	19,313	19,131	19,131	19,313	60,716	30,242	49,297	33,265	19,131	19,313	19,131	327,114
End-of-Month Volume (m³)	6,196,596	6,215,909	6,235,040	6,254,171	6,273,484	6,334,200	6,364,442	6,413,739	6,447,004	6,466,135	6,485,448	6,504,579	-
Portage Pit	0	0	0	0	0	78,539	20,985	56,628	26,694	0	0	0	182,846
Runoff (m³)  Transfer from SC (m³)	0		U	U	U			87,052			U		102,040
Sewage water from Tear Drop Lake (m <sup>3</sup> )		0	0	0	0	120,735	32,259		41,036	0	0	0	281,082
Pumped from Third Portage Lake (m³)	0	0	0	0	0 23,085	120,735 0	32,259 0	11,590	41,036 0	0	0		281,082 34,675
	0											0	
East Dike Seepage (m³)	0 30,000	0 0 30,000	0 0 30,000	0 0 30,000	23,085 0 30,000	0 1,130,000 0	0 1,130,000 0	11,590 1,130,000 0	0 1,130,000 0	0 0 30,000	0 0 30,000	0 0 0 30,000	34,675 4,520,000 240,000
East Dike Seepage (m³)  Total Inflow (m³)	0 30,000 30,000	0 0 30,000 30,000	0 0 30,000 30,000	0 0 30,000 30,000	23,085 0 30,000 53,085	0 1,130,000 0 1,329,274	0 1,130,000 0 1,183,244	11,590 1,130,000 0 1,285,271	0 1,130,000 0 1,197,730	0 0 30,000 30,000	0 0 30,000 30,000	0 0 0 30,000 30,000	34,675 4,520,000 240,000 5,258,603
East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)	0 30,000 30,000 0	0 0 30,000 30,000 0	0 0 30,000 30,000 0	0 0 30,000 30,000 0	23,085 0 30,000 53,085 0	0 1,130,000 0 1,329,274 0	0 1,130,000 0 1,183,244 0	11,590 1,130,000 0 1,285,271 0	0 1,130,000 0 1,197,730 0	0 0 30,000 30,000 0	0 0 30,000 30,000 0	0 0 0 30,000 30,000 0	34,675 4,520,000 240,000 5,258,603 0
East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)	0 30,000 30,000 0	0 0 30,000 30,000 0	0 0 30,000 30,000 0	0 0 30,000 30,000 0	23,085 0 30,000 53,085 0	0 1,130,000 0 1,329,274 0	0 1,130,000 0 1,183,244 0	11,590 1,130,000 0 1,285,271 0	0 1,130,000 0 1,197,730 0	0 0 30,000 30,000 0	0 0 30,000 30,000 0	0 0 0 30,000 30,000 0	34,675 4,520,000 240,000 5,258,603 0
East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)	0 30,000 30,000 0	0 0 30,000 30,000 0	0 0 30,000 30,000 0	0 0 30,000 30,000 0	23,085 0 30,000 53,085 0	0 1,130,000 0 1,329,274 0	0 1,130,000 0 1,183,244 0	11,590 1,130,000 0 1,285,271 0	0 1,130,000 0 1,197,730 0	0 0 30,000 30,000 0	0 0 30,000 30,000 0	0 0 0 30,000 30,000 0	34,675 4,520,000 240,000 5,258,603 0
East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)	0 30,000 30,000 0 0 30,000	0 0 30,000 30,000 0 0 30,000	0 0 30,000 30,000 0 0 30,000	0 0 30,000 30,000 0 0 30,000	23,085 0 30,000 53,085 0 0 53,085	0 1,130,000 0 1,329,274 0 0 1,329,274	0 1,130,000 0 1,183,244 0 0 1,183,244	11,590 1,130,000 0 1,285,271 0 0 1,285,271	0 1,130,000 0 1,197,730 0 0 1,197,730	0 0 30,000 30,000 0 0 30,000	0 0 30,000 30,000 0 0 30,000	0 0 30,000 30,000 0 0 30,000	34,675 4,520,000 240,000 5,258,603 0
East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)	0 30,000 30,000 0 0 30,000 25,929,922	0 0 30,000 30,000 0 0 30,000 25,959,922	0 0 30,000 30,000 0 0 30,000 25,989,922	0 0 30,000 30,000 0 0 30,000 26,019,922	23,085 0 30,000 53,085 0 0 53,085 26,073,007	0 1,130,000 0 1,329,274 0 0 1,329,274 27,402,280	0 1,130,000 0 1,183,244 0 0 1,183,244 28,585,524	11,590 1,130,000 0 1,285,271 0 1,285,271 29,870,795	0 1,130,000 0 1,197,730 0 0 1,197,730 31,068,524	0 0 30,000 30,000 0 0 30,000 31,098,524	0 0 30,000 30,000 0 0 30,000 31,128,524	0 0 30,000 30,000 0 0 30,000 31,158,524	34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144
East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Attenuation Pond  Runoff (m³)  Pumped From Vault Pit (m³)	0 30,000 30,000 0 0 30,000 25,929,922	0 0 30,000 30,000 0 0 30,000 25,959,922 0	0 0 30,000 30,000 0 0 30,000 25,989,922 0	0 0 30,000 30,000 0 0 30,000 26,019,922 0	23,085 0 30,000 53,085 0 0 53,085 26,073,007	0 1,130,000 0 1,329,274 0 0 1,329,274 27,402,280 183,978 0	0 1,130,000 0 1,183,244 0 0 1,183,244 28,585,524 23,105 0	11,590 1,130,000 0 1,285,271 0 1,285,271 29,870,795 107,352 0	0 1,130,000 0 1,197,730 0 0 1,197,730 31,068,524 52,710 0	0 0 30,000 30,000 0 0 30,000 31,098,524	0 0 30,000 30,000 0 0 30,000 31,128,524	0 0 0 30,000 30,000 0 0 30,000 31,158,524	34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144
East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Attenuation Pond  Runoff (m³)  Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)	0 30,000 30,000 0 0 30,000 25,929,922 0 0	0 0 30,000 30,000 0 0 30,000 25,959,922 0 0	0 0 30,000 30,000 0 0 30,000 25,989,922 0 0	0 0 30,000 30,000 0 0 30,000 26,019,922 0 0	23,085 0 30,000 53,085 0 0 53,085 26,073,007 0 0	0 1,130,000 0 1,329,274 0 0 1,329,274 27,402,280 183,978 0	0 1,130,000 0 1,183,244 0 0 1,183,244 28,585,524 23,105 0	11,590 1,130,000 0 1,285,271 0 1,285,271 29,870,795 107,352 0	0 1,130,000 0 1,197,730 0 0 1,197,730 31,068,524 52,710 0	0 0 30,000 30,000 0 0 30,000 31,098,524 0 0	0 0 30,000 30,000 0 0 30,000 31,128,524 0 0	0 0 0 30,000 30,000 0 0 30,000 31,158,524	34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0
East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Attenuation Pond  Runoff (m³)  Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Pumped from Wally Lake (m³)	0 30,000 0 0 30,000 25,929,922 0 0 0	0 0 30,000 30,000 0 0 30,000 25,959,922 0 0	0 0 30,000 30,000 0 0 30,000 25,989,922 0 0	0 0 30,000 30,000 0 0 30,000 26,019,922 0 0	23,085 0 30,000 53,085 0 0 53,085 26,073,007 0 0	0 1,130,000 0 1,329,274 0 0 1,329,274 27,402,280 183,978 0 0	0 1,130,000 0 1,183,244 0 0 1,183,244 28,585,524 23,105 0 0	11,590 1,130,000 0 1,285,271 0 1,285,271 29,870,795 107,352 0 0	0 1,130,000 0 1,197,730 0 0 1,197,730 31,068,524 52,710 0 0	0 0 30,000 30,000 0 0 30,000 31,098,524 0 0	0 0 30,000 30,000 0 0 30,000 31,128,524 0 0	0 0 0 30,000 30,000 0 0 30,000 31,158,524	34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0 0
East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Attenuation Pond  Runoff (m³)  Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)	0 30,000 30,000 0 0 30,000 25,929,922 0 0	0 0 30,000 30,000 0 0 30,000 25,959,922 0 0	0 0 30,000 30,000 0 0 30,000 25,989,922 0 0	0 0 30,000 30,000 0 0 30,000 26,019,922 0 0	23,085 0 30,000 53,085 0 0 53,085 26,073,007 0 0	0 1,130,000 0 1,329,274 0 0 1,329,274 27,402,280 183,978 0	0 1,130,000 0 1,183,244 0 0 1,183,244 28,585,524 23,105 0	11,590 1,130,000 0 1,285,271 0 1,285,271 29,870,795 107,352 0	0 1,130,000 0 1,197,730 0 0 1,197,730 31,068,524 52,710 0	0 0 30,000 30,000 0 0 30,000 31,098,524 0 0	0 0 30,000 30,000 0 0 30,000 31,128,524 0 0	0 0 0 30,000 30,000 0 0 30,000 31,158,524	34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0
East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Attenuation Pond  Runoff (m³)  Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Pumped from Wally Lake (m³)	0 30,000 0 0 30,000 25,929,922 0 0 0	0 0 30,000 30,000 0 0 30,000 25,959,922 0 0 0	0 0 30,000 30,000 0 0 30,000 25,989,922 0 0 0	0 0 30,000 30,000 0 0 30,000 26,019,922 0 0 0	23,085 0 30,000 53,085 0 0 53,085 26,073,007 0 0 0	0 1,130,000 0 1,329,274 0 0 1,329,274 27,402,280 183,978 0 0	0 1,130,000 0 1,183,244 0 0 1,183,244 28,585,524 23,105 0 0 23,105	11,590 1,130,000 0 1,285,271 0 1,285,271 29,870,795 107,352 0 0 107,352	0 1,130,000 0 1,197,730 0 0 1,197,730 31,068,524 52,710 0 0 0 52,710	0 0 30,000 30,000 0 0 30,000 31,098,524 0 0 0	0 0 30,000 30,000 0 0 30,000 31,128,524 0 0 0	0 0 0 30,000 0 0 30,000 31,158,524	34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0 0 0 367,144
East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Attenuation Pond  Runoff (m³)  Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)	0 30,000 0 0 30,000 25,929,922 0 0 0 0	0 0 30,000 30,000 0 30,000 25,959,922 0 0 0	0 0 30,000 30,000 0 30,000 25,989,922 0 0 0	0 0 30,000 30,000 0 30,000 26,019,922 0 0 0	23,085 0 30,000 53,085 0 0 53,085 26,073,007 0 0 0	0 1,130,000 0 1,329,274 0 0 1,329,274 27,402,280 183,978 0 0 183,978 0	0 1,130,000 0 1,183,244 0 0 1,183,244 28,585,524 23,105 0 0 23,105 0	11,590 1,130,000 0 1,285,271 0 1,285,271 29,870,795 107,352 0 0 107,352 0	0 1,130,000 0 1,197,730 0 0 1,197,730 31,068,524 52,710 0 0 52,710	0 0 30,000 0 0 30,000 31,098,524 0 0 0	0 0 30,000 30,000 0 30,000 31,128,524 0 0 0	0 0 0 30,000 0 0 30,000 31,158,524	34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0 0 0 367,144
East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Attenuation Pond Runoff (m³)  Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)	0 30,000 0 0 30,000 25,929,922 0 0 0 0	0 0 30,000 30,000 0 30,000 25,959,922 0 0 0 0	0 0 30,000 30,000 0 30,000 25,989,922 0 0 0	0 0 30,000 30,000 0 30,000 26,019,922 0 0 0 0	23,085 0 30,000 53,085 0 0 53,085 26,073,007 0 0 0 0	0 1,130,000 0 1,329,274 0 0 1,329,274 27,402,280 183,978 0 0 183,978 0	0 1,130,000 0 1,183,244 0 0 1,183,244 28,585,524 23,105 0 0 23,105 0	11,590 1,130,000 0 1,285,271 0 1,285,271 29,870,795 107,352 0 0 107,352 0 0	0 1,130,000 0 1,197,730 0 0 1,197,730 31,068,524 52,710 0 0 52,710 0	0 0 30,000 0 0 30,000 31,098,524 0 0 0 0	0 0 30,000 30,000 0 30,000 31,128,524 0 0 0 0	0 0 0 30,000 0 0 30,000 31,158,524 0 0 0 0	34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0 0 367,144 0 0
East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Attenuation Pond  Runoff (m³)  Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Open Pit	0 30,000 30,000 0 0 30,000 25,929,922 0 0 0 0 0 0 0 2,375,847	0 0 30,000 30,000 0 0 30,000 25,959,922 0 0 0 0 0 0 0	0 0 30,000 30,000 0 0 30,000 25,989,922 0 0 0 0 0 0	0 0 30,000 30,000 0 30,000 26,019,922 0 0 0 0 0 0 0 2,375,847	23,085 0 30,000 53,085 0 0 53,085 26,073,007 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1,130,000 0 1,329,274 0 0 1,329,274 27,402,280 183,978 0 0 183,978 0 183,978	0 1,130,000 0 1,183,244 0 0 1,183,244 28,585,524 23,105 0 0 23,105 0 23,105 0 23,105 2,582,929	11,590 1,130,000 0 1,285,271 0 0 1,285,271 29,870,795 107,352 0 0 107,352 0 0 107,352 0 0	0 1,130,000 0 1,197,730 0 0 1,197,730 31,068,524 52,710 0 0 52,710 0 0 52,710 0 2,742,991	0 0 30,000 30,000 0 0 30,000 31,098,524 0 0 0 0 0 0 0 0	0 0 30,000 30,000 0 30,000 31,128,524 0 0 0 0 0 0 0 0 0	0 0 0 30,000 0 0 30,000 31,158,524 0 0 0 0 0 0 0 0 0	34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0 0 367,144 0 0 367,144
East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Attenuation Pond  Runoff (m³)  Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Open Pit  Runoff (m³)	0 30,000 30,000 0 0 30,000 25,929,922 0 0 0 0 0 0 2,375,847	0 0 30,000 30,000 0 0 30,000 25,959,922 0 0 0 0 0 0 0 0 2,375,847	0 0 30,000 30,000 0 0 30,000 25,989,922 0 0 0 0 0 0 0 2,375,847	0 0 30,000 30,000 0 0 30,000 26,019,922 0 0 0 0 0 0 0 2,375,847	23,085 0 30,000 53,085 0 0 53,085 26,073,007 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1,130,000 0 1,329,274 0 0 1,329,274 27,402,280 183,978 0 0 183,978 0 183,978 2,559,824	0 1,130,000 0 1,183,244 0 0 1,183,244 28,585,524 23,105 0 0 23,105 0 23,105 2,582,929	11,590 1,130,000 0 1,285,271 0 1,285,271 29,870,795  107,352 0 0 107,352 0 107,352 47,967	0 1,130,000 0 1,197,730 0 0 1,197,730 31,068,524 52,710 0 0 52,710 0 0 52,710 2,742,991	0 0 30,000 30,000 0 0 30,000 31,098,524 0 0 0 0 0 0 0 2,742,991	0 0 30,000 30,000 0 30,000 31,128,524 0 0 0 0 0 0 0 2,742,991	0 0 0 30,000 0 0 30,000 31,158,524 0 0 0 0 0 0 0 0 0 2,742,991	34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0 0 0 367,144 0 0 367,144 - 154,880
East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Attenuation Pond  Runoff (m³)  Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Open Pit  Runoff (m³)  Pumped from Wally Lake (m³)	0 30,000 30,000 0 0 30,000 25,929,922 0 0 0 0 0 0 0 2,375,847	0 0 30,000 30,000 0 0 30,000 25,959,922 0 0 0 0 0 0 0	0 0 30,000 30,000 0 0 30,000 25,989,922 0 0 0 0 0 0	0 0 30,000 30,000 0 30,000 26,019,922 0 0 0 0 0 0 0 2,375,847	23,085 0 30,000 53,085 0 0 53,085 26,073,007 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1,130,000 0 1,329,274 0 0 1,329,274 27,402,280 183,978 0 0 183,978 0 183,978 2,559,824	0 1,130,000 0 1,183,244 0 0 1,183,244 28,585,524 23,105 0 0 23,105 0 23,105 2,582,929 17,775 1,006,306	11,590 1,130,000 0 1,285,271 0 0 1,285,271 29,870,795  107,352 0 0 107,352 0 107,352 47,967 1,360,338	0 1,130,000 0 1,197,730 0 0 1,197,730 31,068,524 52,710 0 0 52,710 0 52,710 2,742,991	0 0 30,000 30,000 0 0 30,000 31,098,524 0 0 0 0 0 0 0 0	0 0 30,000 30,000 0 30,000 31,128,524 0 0 0 0 0 0 0 0 0	0 0 0 30,000 0 0 30,000 31,158,524 0 0 0 0 0 0 0 0 0	34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0 0 367,144 0 0 367,144 - 154,880 4,182,604
East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Attenuation Pond  Runoff (m³)  Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Open Pit  Runoff (m³)	0 30,000 30,000 0 0 30,000 25,929,922 0 0 0 0 0 0 2,375,847	0 0 30,000 0 0 30,000 25,959,922 0 0 0 0 0 0 0 2,375,847	0 0 30,000 30,000 0 30,000 25,989,922 0 0 0 0 0 0 2,375,847	0 0 30,000 30,000 0 30,000 26,019,922 0 0 0 0 0 0 0 2,375,847	23,085 0 30,000 53,085 0 0 53,085 26,073,007 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1,130,000 0 1,329,274 0 0 1,329,274 27,402,280 183,978 0 0 183,978 0 183,978 2,559,824	0 1,130,000 0 1,183,244 0 0 1,183,244 28,585,524 23,105 0 0 23,105 0 23,105 2,582,929	11,590 1,130,000 0 1,285,271 0 1,285,271 29,870,795  107,352 0 0 107,352 0 107,352 47,967	0 1,130,000 0 1,197,730 0 0 1,197,730 31,068,524 52,710 0 0 52,710 0 0 52,710 2,742,991	0 0 30,000 30,000 0 0 30,000 31,098,524 0 0 0 0 0 0 0 2,742,991	0 0 30,000 30,000 0 30,000 31,128,524 0 0 0 0 0 0 0 2,742,991	0 0 0 30,000 0 0 30,000 31,158,524 0 0 0 0 0 0 0 0 2,742,991	34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0 0 367,144 0 0 367,144 - 154,880
East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Attenuation Pond  Runoff (m³)  Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Open Pit  Runoff (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)	0 30,000 30,000 0 0 30,000 25,929,922 0 0 0 0 0 0 2,375,847	0 0 30,000 0 0 30,000 25,959,922 0 0 0 0 0 0 0 2,375,847	0 0 30,000 30,000 0 30,000 25,989,922 0 0 0 0 0 0 2,375,847	0 0 30,000 0 0 30,000 26,019,922 0 0 0 0 0 0 0 2,375,847	23,085 0 30,000 53,085 0 0 53,085 26,073,007 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1,130,000 0 1,329,274 0 0 1,329,274 27,402,280 183,978 0 0 183,978 0 183,978 2,559,824 66,526 603,783 670,309	0 1,130,000 0 1,183,244 0 0 1,183,244 28,585,524 23,105 0 0 23,105 0 23,105 2,582,929 17,775 1,006,306 1,024,081	11,590 1,130,000 0 1,285,271 0 0 1,285,271 29,870,795  107,352 0 0 107,352 0 107,352 2,690,281  47,967 1,360,338 1,408,305	0 1,130,000 0 1,197,730 0 0 1,197,730 31,068,524 52,710 0 0 52,710 0 52,710 2,742,991 22,611 1,212,177 1,234,788	0 0 30,000 30,000 0 0 30,000 31,098,524 0 0 0 0 0 0 2,742,991	0 0 30,000 30,000 0 30,000 31,128,524 0 0 0 0 0 0 0 2,742,991	0 0 0 30,000 0 0 30,000 31,158,524 0 0 0 0 0 0 0 2,742,991	34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0 0 0 367,144 0 0 367,144 - 154,880 4,182,604 4,337,484
East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Attenuation Pond  Runoff (m³)  Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Yault Open Pit  Runoff (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)	0 30,000 30,000 0 0 30,000 25,929,922 0 0 0 0 0 0 2,375,847	0 0 30,000 30,000 0 0 30,000 25,959,922 0 0 0 0 0 0 0 2,375,847 0 0	0 0 30,000 30,000 0 30,000 25,989,922 0 0 0 0 0 0 2,375,847	0 0 30,000 30,000 0 30,000 26,019,922 0 0 0 0 0 0 2,375,847 0 0	23,085 0 30,000 53,085 0 0 53,085 26,073,007 0 0 0 0 0 0 0 2,375,847 0 0 0	0 1,130,000 0 1,329,274 0 0 1,329,274 27,402,280 183,978 0 0 183,978 0 183,978 2,559,824 66,526 603,783 670,309 0	0 1,130,000 0 1,183,244 0 0 1,183,244 28,585,524 23,105 0 0 23,105 0 23,105 2,582,929 17,775 1,006,306 1,024,081 0	11,590 1,130,000 0 1,285,271 0 0 1,285,271 29,870,795  107,352 0 0 107,352 0 107,352 2,690,281  47,967 1,360,338 1,408,305 0	0 1,130,000 0 1,197,730 0 0 1,197,730 31,068,524 52,710 0 0 52,710 0 52,710 2,742,991 22,611 1,212,177 1,234,788 0	0 0 30,000 30,000 0 0 30,000 31,098,524 0 0 0 0 0 0 2,742,991	0 0 30,000 30,000 0 30,000 31,128,524 0 0 0 0 0 0 2,742,991 0 0	0 0 0 30,000 0 0 30,000 31,158,524 0 0 0 0 0 0 0 2,742,991 0 0 0	34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0 0 0 367,144 0 0 367,144 - 154,880 4,182,604 4,337,484 0
East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Attenuation Pond Runoff (m³)  Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pounce (m³)  Total Inflow (m³)  Pounce (m³)  Pounce (m³)  Pounce (m³)  Total Inflow (m³)  Pounce (m³)  Pounce (m³)  Total Inflow (m³)  Pounce (m³)  Total Outflow (m³)	0 30,000 30,000 0 0 30,000 25,929,922 0 0 0 0 0 0 2,375,847	0 0 30,000 30,000 0 0 30,000 25,959,922 0 0 0 0 0 0 2,375,847 0 0	0 0 30,000 30,000 0 0 30,000 25,989,922 0 0 0 0 0 0 2,375,847	0 0 30,000 30,000 0 30,000 26,019,922 0 0 0 0 0 0 2,375,847 0 0	23,085 0 30,000 53,085 0 0 53,085 26,073,007 0 0 0 0 0 0 0 0 2,375,847 0 0 0	0 1,130,000 0 1,329,274 0 0 1,329,274 27,402,280 183,978 0 0 183,978 0 183,978 2,559,824 66,526 603,783 670,309 0	0 1,130,000 0 1,183,244 0 0 1,183,244 28,585,524 23,105 0 0 23,105 0 23,105 2,582,929 17,775 1,006,306 1,024,081 0	11,590 1,130,000 0 1,285,271 0 0 1,285,271 29,870,795  107,352 0 0 107,352 0 107,352 2,690,281  47,967 1,360,338 1,408,305 0 0	0 1,130,000 0 1,197,730 0 0 1,197,730 31,068,524 52,710 0 0 52,710 0 52,710 2,742,991 22,611 1,212,177 1,234,788 0	0 0 30,000 30,000 0 0 30,000 31,098,524 0 0 0 0 0 0 2,742,991 0 0	0 0 30,000 30,000 0 30,000 31,128,524 0 0 0 0 0 0 2,742,991 0 0 0	0 0 0 30,000 0 0 30,000 31,158,524 0 0 0 0 0 0 0 2,742,991 0 0	34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0 0 367,144 0 0 367,144 - 154,880 4,182,604 4,337,484 0 0
East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Attenuation Pond  Runoff (m³)  Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Yault Open Pit  Runoff (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  Pend-of-Month Volume (m³)  Pend-of-Month Volume (m³)  Pend-of-Month Volume (m³)  Pend-of-Month Volume (m³)  Phaser Open Pit (including Phaser Lake)	0 30,000 30,000 0 0 30,000 25,929,922 0 0 0 0 0 0 2,375,847 0 0 0 0	0 0 30,000 30,000 0 0 30,000 25,959,922 0 0 0 0 0 0 0 2,375,847 0 0 0 0 0	0 0 30,000 30,000 0 30,000 25,989,922 0 0 0 0 0 0 2,375,847 0 0 0 0 0 2,375,847	0 0 30,000 30,000 0 30,000 26,019,922 0 0 0 0 0 0 2,375,847 0 0 0 0 0 0	23,085 0 30,000 53,085 0 0 53,085 26,073,007 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1,130,000 0 1,329,274 0 0 1,329,274 27,402,280 183,978 0 0 183,978 0 183,978 2,559,824 66,526 603,783 670,309 0 0 670,309 22,357,727	0 1,130,000 0 1,183,244 0 0 1,183,244 28,585,524 23,105 0 0 23,105 0 23,105 2,582,929 17,775 1,006,306 1,024,081 0 0 1,024,081 23,381,808	11,590 1,130,000 0 1,285,271 0 0 1,285,271 29,870,795  107,352 0 0 107,352 0 107,352 2,690,281  47,967 1,360,338 1,408,305 0 1,408,305 0 1,408,305 24,790,113	0 1,130,000 0 1,197,730 0 0 1,197,730 31,068,524 52,710 0 0 52,710 2,742,991 22,611 1,212,177 1,234,788 0 0 1,234,788 26,024,901	0 0 30,000 30,000 0 30,000 31,098,524 0 0 0 0 0 0 2,742,991 0 0 0 0 0 0 0 0 2,742,991	0 0 30,000 30,000 0 30,000 31,128,524 0 0 0 0 0 0 0 2,742,991 0 0 0 0 0	0 0 0 30,000 30,000 0 0 30,000 31,158,524 0 0 0 0 0 0 0 0 2,742,991 0 0 0 0	34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0 0 367,144 0 0 367,144 - 154,880 4,182,604 4,337,484 0 0 4,337,484
East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Attenuation Pond  Runoff (m³)  Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pounce (m³)  Total Inflow (m³)  Pounce (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  Pend-of-Month Volume (m³)  Phaser Open Pit (including Phaser Lake)  Runoff (m³)	0 30,000 0 0 30,000 0 25,929,922 0 0 0 0 0 0 2,375,847 0 0 0 0 2,375,847	0 0 30,000 0 0 30,000 25,959,922 0 0 0 0 0 0 0 2,375,847 0 0 0 0 0 0 2,375,847	0 0 30,000 30,000 0 0 30,000 25,989,922 0 0 0 0 0 0 2,375,847 0 0 0 0 0 2,375,847	0 0 30,000 30,000 0 30,000 26,019,922 0 0 0 0 0 0 2,375,847 0 0 0 0 0 0 2,375,847	23,085 0 30,000 53,085 0 0 53,085 26,073,007 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1,130,000 0 1,329,274 0 0 1,329,274 27,402,280 183,978 0 0 183,978 0 183,978 2,559,824 66,526 603,783 670,309 0 0 670,309 22,357,727	0 1,130,000 0 1,183,244 0 0 1,183,244 28,585,524 23,105 0 0 23,105 0 23,105 2,582,929 17,775 1,006,306 1,024,081 0 0 1,024,081 23,381,808	11,590 1,130,000 0 1,285,271 0 0 1,285,271 29,870,795  107,352 0 0 107,352 0 107,352 2,690,281  47,967 1,360,338 1,408,305 0 0 1,408,305 24,790,113	0 1,130,000 0 1,197,730 0 0 1,197,730 31,068,524 52,710 0 0 52,710 0 52,710 2,742,991 22,611 1,212,177 1,234,788 0 0 1,234,788 26,024,901	0 0 30,000 30,000 0 30,000 31,098,524 0 0 0 0 0 0 2,742,991 0 0 0 0 0 0 0 2,742,991	0 0 30,000 30,000 0 30,000 31,128,524 0 0 0 0 0 0 2,742,991 0 0 0 0 0 0 0 0 2,742,991	0 0 0 30,000 0 0 30,000 31,158,524 0 0 0 0 0 0 0 0 2,742,991 0 0 0 0 0 0 0 2,742,991	34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0 0 0 367,144 0 0 367,144 - 154,880 4,182,604 4,337,484 0 0 4,337,484 - 171,470
East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Attenuation Pond  Runoff (m³)  Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  Pend-of-Month Volume (m³)  Phaser Open Pit (including Phaser Lake)  Runoff (m³)  Total Inflow (m³)	0 30,000 30,000 0 0 30,000 25,929,922 0 0 0 0 0 0 0 2,375,847 0 0 0 0 21,687,418	0 0 30,000 30,000 0 0 30,000 25,959,922 0 0 0 0 0 0 0 2,375,847 0 0 0 0 0 2,375,847	0 0 30,000 30,000 0 0 30,000 25,989,922 0 0 0 0 0 0 2,375,847 0 0 0 0 2,375,847	0 0 30,000 30,000 0 0 30,000 26,019,922 0 0 0 0 0 0 2,375,847 0 0 0 0 0 2,375,847	23,085 0 30,000 53,085 0 0 53,085 26,073,007 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1,130,000 0 1,329,274 0 0 1,329,274 27,402,280 183,978 0 0 183,978 0 183,978 2,559,824 66,526 603,783 670,309 0 0 670,309 22,357,727	0 1,130,000 0 1,183,244 0 0 1,183,244 28,585,524 23,105 0 0 23,105 0 23,105 2,582,929 17,775 1,006,306 1,024,081 0 0 1,024,081 23,381,808	11,590 1,130,000 0 1,285,271 0 0 1,285,271 29,870,795  107,352 0 0 107,352 0 107,352 2,690,281  47,967 1,360,338 1,408,305 0 1,408,305 0 1,408,305 24,790,113	0 1,130,000 0 1,197,730 0 0 1,197,730 31,068,524 52,710 0 0 52,710 2,742,991 22,611 1,212,177 1,234,788 0 0 1,234,788 26,024,901	0 0 30,000 30,000 0 0 31,098,524 0 0 0 0 0 0 2,742,991 0 0 0 0 0 2,742,991	0 0 30,000 30,000 0 0 30,000 31,128,524 0 0 0 0 0 0 2,742,991 0 0 0 0 0 0 0 0 2,742,991	0 0 0 30,000 30,000 0 0 30,000 31,158,524 0 0 0 0 0 0 0 0 2,742,991 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0 0 0 367,144 0 0 367,144 - 154,880 4,182,604 4,337,484 0 0 4,337,484
East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Attenuation Pond  Runoff (m³)  Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Yault Open Pit  Runoff (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  Pend-of-Month Volume (m³)  Pomped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Pomped to Vallt Inflow (m³)  Pomped to Vallt Attenuation Pond (m³)  Total Inflow (m³)  Phaser Open Pit (including Phaser Lake)  Runoff (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)	0 30,000 30,000 0 0 30,000 25,929,922 0 0 0 0 0 0 0 2,375,847 0 0 0 21,687,418	0 0 30,000 30,000 0 0 30,000 25,959,922 0 0 0 0 0 0 0 2,375,847 0 0 0 0 2,375,847	0 0 30,000 30,000 0 0 30,000 25,989,922 0 0 0 0 0 0 2,375,847 0 0 0 0 2,375,847	0 0 30,000 30,000 0 30,000 26,019,922 0 0 0 0 0 0 2,375,847 0 0 0 0 0 0 2,375,847	23,085 0 30,000 53,085 0 0 53,085 26,073,007 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1,130,000 0 1,329,274 0 0 1,329,274 27,402,280 183,978 0 0 183,978 0 0 183,978 2,559,824 66,526 603,783 670,309 0 0 670,309 22,357,727	0 1,130,000 0 1,183,244 0 0 1,183,244 28,585,524 23,105 0 0 23,105 0 23,105 2,582,929 17,775 1,006,306 1,024,081 0 0 1,024,081 23,381,808	11,590 1,130,000 0 1,285,271 0 0 1,285,271 29,870,795  107,352 0 0 107,352 0 107,352 2,690,281  47,967 1,360,338 1,408,305 0 1,408,305 0 1,408,305 24,790,113	0 1,130,000 0 1,197,730 0 0 1,197,730 31,068,524 52,710 0 0 52,710 2,742,991 22,611 1,212,177 1,234,788 0 0 1,234,788 26,024,901	0 0 30,000 30,000 0 30,000 31,098,524 0 0 0 0 0 0 2,742,991 0 0 0 0 0 0 0 2,742,991	0 0 30,000 30,000 0 30,000 31,128,524 0 0 0 0 0 0 2,742,991 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 30,000 30,000 0 0 30,000 31,158,524 0 0 0 0 0 0 0 0 0 2,742,991 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0 0 0 367,144 0 0 367,144 - 154,880 4,182,604 4,337,484 0 0 4,337,484 - 171,470 171,470
East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Attenuation Pond  Runoff (m³)  Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  Pend-of-Month Volume (m³)  Phaser Open Pit (including Phaser Lake)  Runoff (m³)  Total Inflow (m³)	0 30,000 30,000 0 0 30,000 25,929,922 0 0 0 0 0 0 0 2,375,847 0 0 0 0 21,687,418	0 0 30,000 30,000 0 0 30,000 25,959,922 0 0 0 0 0 0 0 2,375,847 0 0 0 0 0 2,375,847	0 0 30,000 30,000 0 0 30,000 25,989,922 0 0 0 0 0 0 2,375,847 0 0 0 0 2,375,847	0 0 30,000 30,000 0 30,000 26,019,922 0 0 0 0 0 0 2,375,847 0 0 0 0 0 2,375,847	23,085 0 30,000 53,085 0 0 53,085 26,073,007 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1,130,000 0 1,329,274 0 0 1,329,274 27,402,280 183,978 0 0 183,978 0 183,978 2,559,824 66,526 603,783 670,309 0 0 670,309 22,357,727	0 1,130,000 0 1,183,244 0 0 1,183,244 28,585,524 23,105 0 0 23,105 0 23,105 2,582,929 17,775 1,006,306 1,024,081 0 0 1,024,081 23,381,808	11,590 1,130,000 0 1,285,271 0 0 1,285,271 29,870,795  107,352 0 0 107,352 0 107,352 2,690,281  47,967 1,360,338 1,408,305 0 1,408,305 0 1,408,305 24,790,113	0 1,130,000 0 1,197,730 0 0 1,197,730 31,068,524 52,710 0 0 52,710 2,742,991 22,611 1,212,177 1,234,788 0 0 1,234,788 26,024,901	0 0 30,000 30,000 0 0 31,098,524 0 0 0 0 0 0 2,742,991 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 30,000 30,000 0 0 30,000 31,128,524 0 0 0 0 0 0 2,742,991 0 0 0 0 0 0 0 0 2,742,991	0 0 0 30,000 30,000 0 0 30,000 31,158,524 0 0 0 0 0 0 0 0 2,742,991 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0 0 0 367,144 0 0 367,144 - 154,880 4,182,604 4,337,484 0 0 4,337,484 - 171,470 171,470 0
East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Attenuation Pond  Runoff (m³)  Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Outflow (m³)  Phaser Open Pit (including Phaser Lake)  Runoff (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Inflow (m³)  Phaser Open Pit (including Phaser Lake)  Runoff (m³)  Total Inflow (m³)  Pumped to Vault Attenuation Pond (m³)  Total Inflow (m³)	0 30,000 30,000 0 0 30,000 25,929,922 0 0 0 0 0 0 0 0 2,375,847 0 0 0 0 21,687,418	0 0 30,000 30,000 0 30,000 25,959,922 0 0 0 0 0 0 0 0 2,375,847 0 0 0 0 21,687,418	0 0 30,000 30,000 0 30,000 25,989,922 0 0 0 0 0 0 0 2,375,847 0 0 0 0 21,687,418	0 0 30,000 30,000 0 30,000 26,019,922 0 0 0 0 0 0 0 2,375,847 0 0 0 0 21,687,418	23,085 0 30,000 53,085 0 0 53,085 26,073,007 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1,130,000 0 1,329,274 0 0 1,329,274 27,402,280 183,978 0 0 183,978 0 0 183,978 2,559,824 66,526 603,783 670,309 0 0 670,309 22,357,727 73,652 73,652 0 0 73,652	0 1,130,000 0 1,183,244 0 0 1,183,244 28,585,524 23,105 0 0 23,105 0 23,105 2,582,929 17,775 1,006,306 1,024,081 0 1,024,081 23,381,808	11,590 1,130,000 0 1,285,271 0 0 1,285,271 29,870,795  107,352 0 0 107,352 0 107,352 2,690,281  47,967 1,360,338 1,408,305 0 1,408,305 24,790,113  53,105 53,105 0 0	0 1,130,000 0 1,197,730 0 0 1,197,730 31,068,524 52,710 0 0 52,710 0 0 52,710 2,742,991 22,611 1,212,177 1,234,788 0 0 1,234,788 26,024,901 25,033 0 0 25,033	0 0 30,000 30,000 0 30,000 31,098,524 0 0 0 0 0 0 0 2,742,991 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 30,000 30,000 0 30,000 31,128,524 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 30,000 30,000 0 0 30,000 31,158,524 0 0 0 0 0 0 0 0 2,742,991 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	34,675 4,520,000 240,000 5,258,603 0 0 5,258,603 - 367,144 0 0 0 367,144 0 0 367,144 - 154,880 4,182,604 4,337,484 0 0 4,337,484 - 171,470 171,470 0 0

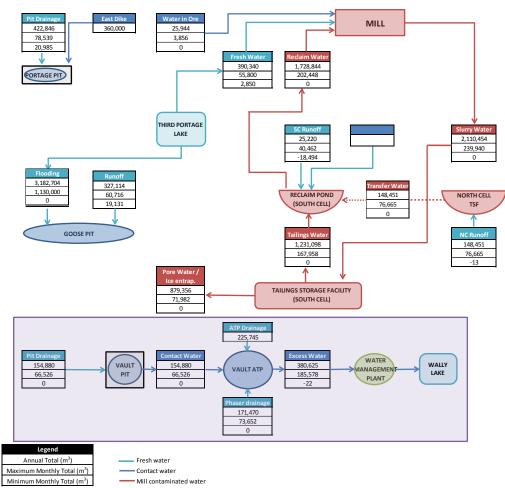
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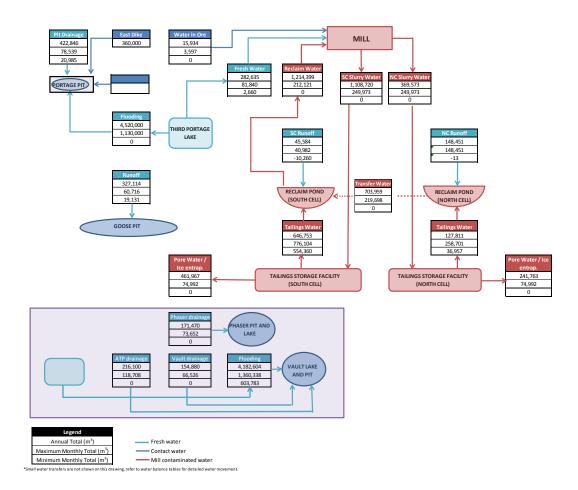
						Yea	r 2025			•			ANNUAL TOTAL
No. of days	Jan 31	Feb 29	Mar 31	Apr 30	May 31	Jun 30	Jul 31	Aug 31	Sep 30	Oct 31	Nov 30	Dec 31	366
Tailings (tonnes):	0	0	0	0	0	0	0	0	0	0	0	0	0
Cummulative Tailings (tonnes):	36,153,676	36,153,676	36,153,676	36,153,676	36,153,676	36,153,676	36,153,676	36,153,676	36,153,676	36,153,676	36,153,676	36,153,676	-
Cummulative Tailings (m3) - North Cell Cummulative Tailings (m3) - South Cell	16,178,977 13,845,315	16,178,977 13,845,315	16,178,977 13,845,315	16,178,977 13,845,315	16,178,977 13,845,315	16,178,977 13,845,315	16,178,977 13,845,315	16,178,977 13,845,315	16,178,977 13,845,315	16,178,977 13,845,315	16,178,977 13,845,315	16,178,977 13,845,315	-
North Cell (TSF)	13,643,313	13,643,313	13,643,313	13,643,313	13,843,313	13,643,313	13,643,313	13,643,313	13,843,313	13,643,313	13,643,313	13,643,313	
Starting Pond Volume (m³)	0	0	0	0	0	0	0	0	0	0	0	0	-
Water from tailings slurry (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Runoff (m <sup>3</sup> )	0	0	0	0	0	77,826	20,794	56,114	26,452	0	0	0	181,187
Total Inflow (m³)	0	0	0	0	0	77,826 77,826	20,794	56,114 56,114	26,452 26,452	0	0	0	181,187 181,187
Transfer to South Cell (m³)  Reclaim water to the mill (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Outflow (m³)	0	0	0	0	0	77,826	20,794	56,114	26,452	0	0	0	181,187
Net Inflow (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
End-of-Month Volume (m³)	0	0	0	0	0	0	0	0	0	0	0	0	-
South Cell (TSF)													
Runoff (m <sup>3</sup> )	0	0	0	0	0	42,909	11,465	30,938	14,584	0	0	0	99,896
Transfer from North Cell (m³)  Total Inflow (m³)	0	0	0	0	0	77,826 120,735	20,794 32,259	56,114 87,052	26,452 41,036	0	0	0	181,187 281,082
Reclaim water to the mill (m <sup>3</sup> )	0	0	0	0	0	0	0	0	0	0	0	0	0
Transfer to Portage Pit (m³)	0	0	0	0	0	120,735	32,259	87,052	41,036	0	0	0	281,082
Total Outflow (m³)	0	0	0	0	0	120,735	32,259	87,052	41,036	0	0	0	281,082
Net Inflow (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
End-of-Month Volume (m³)	0	0	0	0	0	0	0	0	0	0	0	0	
Mill/Camp Ore water (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Ore water (m³)  Reclaim water (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Freshwater from Third Portage Lake (m <sup>3</sup> )	2,945	2,660	2,945	2,850	2,945	2,850	2,945	2,945	2,850	2,945	2,850	2,945	34,675
Total Inflow (m <sup>3</sup> )	2,945	2,660	2,945	2,850	2,945	2,850	2,945	2,945	2,850	2,945	2,850	2,945	34,675
Freshwater for camp purposes (m³)	2,945	2,660	2,945	2,850	2,945	2,850	2,945	2,945	2,850	2,945	2,850	2,945	34,675
Slurry water (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Outflow (m³)	2,945	2,660	2,945	2,850	2,945	2,850	2,945	2,945	2,850	2,945	2,850	2,945	34,675
Net Inflow (m <sup>3</sup> )	0	0	0	0	0	0	0	0	0	0	0	0	0
Reclaim water pumping rate (m³/hr) Freshwater pumping rate (m³/hr)	4	4	4	4	4	4	4	4	4	4	4	4	-
TSF Water Balance	4	4	4	4	4	4	4	4	4	4	4	4	
Slurry water (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Tailings water/ice entrampment (%)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
Void and ice entrapment losses (m³)	0	0	0	0	0	0	0	0	0	0	0	0	0
Slurry water returned to the pond (m <sup>3</sup> )	0	0	0	0	0	0	0	0	0	0	0	0	0
						Yea	r 2025						
	Jan	Feb	N.4	Λ	Mari		L.J	A	C	0.4	Nov	Dec	ANNUAL TOTAL
			Mar	Apr	May	Jun	Jul	Aug	Sep	Oct			
No. of days	31	28	31	30 30	31	Jun 30	31	31	30 30	31	30	31	365
Goose Pit (ATP)	31	28	31	30	31	30	31	31	30	31	30	31	
Goose Pit (ATP) Runoff (m³)				•	•			Ŭ					365 327,114 0
Goose Pit (ATP)	<b>31</b> 19,131	<b>28</b> 19,313	<b>31</b> 19,131	30 19,131	<b>31</b> 19,313	<b>30</b> 60,716	<b>31</b> 30,242	<b>31</b> 49,297	33,265	<b>31</b> 19,131	<b>30</b> 19,313	<b>31</b> 19,131	327,114
Goose Pit (ATP)  Runoff (m³)  Transfer from South Cell (m³)	19,131 0	19,313 0	19,131 0	30 19,131 0	<b>31</b> 19,313 0	<b>30</b> 60,716 0	30,242 0	<b>31</b> 49,297 0	33,265 0	19,131 0	19,313 0	19,131 0	327,114 0
Goose Pit (ATP)  Runoff (m³)  Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)	19,131 0 0 19,131 0	19,313 0 0 19,313 0	19,131 0 0 19,131 0	19,131 0 0 19,131 0	31 19,313 0 0 19,313 0	60,716 0 0 60,716 0	31 30,242 0 0 30,242 0	31 49,297 0 0 49,297 0	33,265 0 0 33,265 0	19,131 0 0 19,131 0	19,313 0 0 19,313 0	19,131 0 0 19,131 0	327,114 0 0 327,114
Goose Pit (ATP)  Runoff (m³)  Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)	19,131 0 0 19,131 0 0	19,313 0 0 19,313 0 0	19,131 0 0 19,131 0 0	19,131 0 0 19,131 0 0	19,313 0 0 19,313 0 0	60,716 0 0 60,716 0 0 0	30,242 0 0 30,242 0 0	49,297 0 0 49,297 0 49,297 0	33,265 0 0 33,265 0 0	19,131 0 0 19,131 0 0	19,313 0 0 19,313 0	19,131 0 0 19,131 0 0	327,114 0 0 327,114 0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)	19,131 0 0 19,131 0 0 19,131	19,313 0 0 19,313 0 0 19,313	19,131 0 0 19,131 0 0 19,131	19,131 0 0 19,131 0 0 19,131	19,313 0 0 19,313 0 0 19,313	60,716 0 0 60,716 0 60,716 0 60,716	30,242 0 0 30,242 0 0 30,242	31 49,297 0 0 49,297 0 0 49,297	33,265 0 0 33,265 0 0 33,265	31 19,131 0 0 19,131 0 0 19,131	19,313 0 0 19,313 0 0 19,313	19,131 0 0 19,131 0 0 19,131	327,114 0 0 327,114 0 0 327,114
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  End-of-Month Volume (m³)	19,131 0 0 19,131 0 0	19,313 0 0 19,313 0 0	19,131 0 0 19,131 0 0	19,131 0 0 19,131 0 0	19,313 0 0 19,313 0 0	60,716 0 0 60,716 0 0 0	30,242 0 0 30,242 0 0	49,297 0 0 49,297 0 49,297 0	33,265 0 0 33,265 0 0	19,131 0 0 19,131 0 0	19,313 0 0 19,313 0	19,131 0 0 19,131 0 0	327,114 0 0 327,114 0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)	19,131 0 0 19,131 0 0 19,131	19,313 0 0 19,313 0 0 19,313	19,131 0 0 19,131 0 0 19,131	19,131 0 0 19,131 0 0 19,131	19,313 0 0 19,313 0 0 19,313	60,716 0 0 60,716 0 60,716 0 60,716	30,242 0 0 30,242 0 0 30,242	31 49,297 0 0 49,297 0 0 49,297	33,265 0 0 33,265 0 0 33,265	31 19,131 0 0 19,131 0 0 19,131	19,313 0 0 19,313 0 0 19,313	19,131 0 0 19,131 0 0 19,131	327,114 0 0 327,114 0 0 327,114
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) End-of-Month Volume (m³)  Portage Pit	31 19,131 0 0 19,131 0 0 19,131 6,523,710	19,313 0 0 19,313 0 0 19,313 6,543,023	31 19,131 0 0 19,131 0 0 19,131 6,562,154	19,131 0 0 19,131 0 0 19,131 0,581,285	31 19,313 0 0 19,313 0 0 19,313 6,600,598	60,716 0 0 60,716 0 0 60,716 0 60,716 6,661,314	30,242 0 0 30,242 0 0 30,242 6,691,556	31 49,297 0 0 49,297 0 0 49,297 6,740,853	33,265 0 0 33,265 0 0 33,265 6,774,118	31 19,131 0 0 19,131 0 0 19,131 6,793,249	19,313 0 0 19,313 0 19,313 0 19,313 6,812,562	31 19,131 0 0 19,131 0 0 19,131 6,831,693	327,114 0 0 327,114 0 0 327,114
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) End-of-Month Volume (m³)  Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³)	31 19,131 0 0 19,131 0 0 19,131 6,523,710 0 0	28 19,313 0 0 19,313 0 0 19,313 6,543,023 0 0	31 19,131 0 0 19,131 0 0 19,131 6,562,154	19,131 0 0 19,131 0 0 19,131 6,581,285 0 0	31 19,313 0 0 19,313 0 0 19,313 6,600,598	30 60,716 0 0 60,716 0 0 60,716 6,661,314 78,539 120,735 0	31 30,242 0 0 30,242 0 0 30,242 6,691,556 20,985 32,259 0	31 49,297 0 0 49,297 0 0 49,297 6,740,853 56,628 87,052 0	33,265 0 0 33,265 0 0 33,265 6,774,118 26,694 41,036 0	31 19,131 0 0 19,131 0 0 19,131 6,793,249 0 0	30 19,313 0 0 19,313 0 19,313 6,812,562 0 0	31 19,131 0 0 19,131 0 19,131 6,831,693	327,114 0 0 327,114 0 0 327,114 - 182,846 281,082 0
Goose Pit (ATP) Runoff (m³)  Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit  Runoff (m³)  Transfer from SC (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)	31 19,131 0 0 19,131 0 0 19,131 6,523,710 0 0 0	28 19,313 0 0 19,313 0 0 19,313 6,543,023 0 0 0	31 19,131 0 0 19,131 0 0 19,131 6,562,154	19,131 0 0 19,131 0 0 19,131 6,581,285 0 0 0	31 19,313 0 0 19,313 0 0 19,313 6,600,598	30 60,716 0 0 60,716 0 0 60,716 6,661,314 78,539 120,735 0 1,130,000	31 30,242 0 0 30,242 0 0 30,242 6,691,556 20,985 32,259 0 1,130,000	31 49,297 0 0 49,297 0 0 49,297 6,740,853 56,628 87,052 0 1,130,000	33,265 0 0 33,265 0 0 33,265 6,774,118 26,694 41,036 0 669,356	31 19,131 0 0 19,131 0 0 19,131 6,793,249 0 0 0	30 19,313 0 0 19,313 0 0 19,313 6,812,562 0 0 0	31 19,131 0 0 19,131 0 0 19,131 6,831,693	327,114 0 0 327,114 0 0 327,114 - 182,846 281,082 0 4,059,356
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) End-of-Month Volume (m³) Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)	31 19,131 0 0 19,131 0 0 19,131 6,523,710 0 0 0 0 30,000	28 19,313 0 0 19,313 0 0 19,313 6,543,023 0 0 0 0 0 0	31 19,131 0 0 19,131 0 0 19,131 6,562,154 0 0 0 0 30,000	19,131 0 0 19,131 0 0 19,131 6,581,285 0 0 0 0 30,000	31 19,313 0 0 19,313 0 0 19,313 6,600,598 0 0 0 0 30,000	30 60,716 0 0 60,716 0 0 60,716 6,661,314 78,539 120,735 0 1,130,000 0	31 30,242 0 0 30,242 0 0 30,242 6,691,556 20,985 32,259 0 1,130,000 0	31 49,297 0 0 49,297 0 0 49,297 6,740,853 56,628 87,052 0 1,130,000 0	33,265 0 0 33,265 0 0 33,265 6,774,118 26,694 41,036 0 669,356	31 19,131 0 0 19,131 0 0 19,131 6,793,249 0 0 0 0 30,000	30 19,313 0 0 19,313 0 0 19,313 6,812,562 0 0 0 0 30,000	31 19,131 0 0 19,131 0 0 19,131 6,831,693 0 0 0 0 0	327,114 0 0 327,114 0 0 327,114 - 182,846 281,082 0 4,059,356 240,000
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) End-of-Month Volume (m³) Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³)	31 19,131 0 0 19,131 0 0 19,131 6,523,710 0 0 0	28 19,313 0 0 19,313 0 0 19,313 6,543,023 0 0 0	31 19,131 0 0 19,131 0 0 19,131 6,562,154	19,131 0 0 19,131 0 0 19,131 6,581,285 0 0 0	31 19,313 0 0 19,313 0 0 19,313 6,600,598	30 60,716 0 0 60,716 0 0 60,716 6,661,314 78,539 120,735 0 1,130,000	31 30,242 0 0 30,242 0 0 30,242 6,691,556 20,985 32,259 0 1,130,000	31 49,297 0 0 49,297 0 0 49,297 6,740,853 56,628 87,052 0 1,130,000	33,265 0 0 33,265 0 0 33,265 6,774,118 26,694 41,036 0 669,356	31 19,131 0 0 19,131 0 0 19,131 6,793,249 0 0 0	30 19,313 0 0 19,313 0 0 19,313 6,812,562 0 0 0	31 19,131 0 0 19,131 0 0 19,131 6,831,693	327,114 0 0 327,114 0 0 327,114 - 182,846 281,082 0 4,059,356
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) End-of-Month Volume (m³) Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)	31 19,131 0 0 19,131 0 0 19,131 6,523,710 0 0 0 0 0 30,000	28 19,313 0 0 19,313 0 0 19,313 6,543,023 0 0 0 0 0 30,000 30,000	31 19,131 0 0 19,131 0 0 19,131 6,562,154 0 0 0 0 30,000	19,131 0 0 19,131 0 0 19,131 6,581,285 0 0 0 0 30,000 30,000	31 19,313 0 0 19,313 0 0 19,313 6,600,598 0 0 0 0 30,000	30 60,716 0 0 60,716 0 0 60,716 6,661,314 78,539 120,735 0 1,130,000 0 1,329,274	31 30,242 0 0 30,242 0 0 30,242 6,691,556 20,985 32,259 0 1,130,000 0 1,183,244	31 49,297 0 0 49,297 0 0 49,297 6,740,853 56,628 87,052 0 1,130,000 0 1,273,681	30 33,265 0 0 33,265 0 0 33,265 6,774,118 26,694 41,036 0 669,356 0 737,086	31 19,131 0 0 19,131 0 0 19,131 6,793,249 0 0 0 0 0 30,000 30,000	30 19,313 0 0 19,313 0 0 19,313 6,812,562 0 0 0 0 30,000 30,000	31 19,131 0 0 19,131 0 0 19,131 6,831,693 0 0 0 0 30,000	327,114 0 0 327,114 0 0 327,114 - 182,846 281,082 0 4,059,356 240,000 4,763,284
Runoff (m³)  Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit  Runoff (m³)  Transfer from SC (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)	31 19,131 0 0 19,131 0 0 19,131 6,523,710 0 0 0 0 30,000 0	28  19,313 0 0 19,313 0 0 19,313 0 0 19,313 6,543,023 0 0 0 0 0 30,000 0 0	31 19,131 0 0 19,131 0 0 19,131 6,562,154 0 0 0 0 30,000 0	19,131 0 0 19,131 0 0 19,131 0 19,131 6,581,285 0 0 0 0 30,000 0	31 19,313 0 0 19,313 0 0 19,313 6,600,598 0 0 0 0 30,000 0	30 60,716 0 0 60,716 0 0 60,716 6,661,314 78,539 120,735 0 1,130,000 0 1,329,274 0	31 30,242 0 0 30,242 0 0 30,242 6,691,556 20,985 32,259 0 1,130,000 0 1,183,244 0	31 49,297 0 0 49,297 0 0 49,297 6,740,853 56,628 87,052 0 1,130,000 0 1,273,681 0	30 33,265 0 0 33,265 0 0 33,265 6,774,118 26,694 41,036 0 669,356 0 737,086 0	31 19,131 0 0 19,131 0 0 19,131 6,793,249 0 0 0 0 0 30,000 0	30 19,313 0 0 19,313 0 0 19,313 6,812,562 0 0 0 0 0 30,000 0	31 19,131 0 0 19,131 0 0 19,131 6,831,693 0 0 0 0 30,000 0	327,114 0 0 327,114 0 0 327,114 - 182,846 281,082 0 4,059,356 240,000 4,763,284 0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) End-of-Month Volume (m³) Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³) Total Outflow (m³)	31 19,131 0 0 19,131 0 0 19,131 6,523,710 0 0 0 0 30,000 0 0	28  19,313 0 0 19,313 0 0 19,313 0 0 19,313 6,543,023 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31 19,131 0 0 19,131 0 0 19,131 6,562,154 0 0 0 0 30,000 0 0	19,131 0 0 19,131 0 0 19,131 0 19,131 6,581,285 0 0 0 0 30,000 0 0	31 19,313 0 0 19,313 0 0 19,313 6,600,598 0 0 0 0 30,000 0 0	30 60,716 0 0 60,716 0 0 60,716 6,661,314 78,539 120,735 0 1,130,000 0 1,329,274 0	31 30,242 0 0 30,242 0 0 30,242 6,691,556 20,985 32,259 0 1,130,000 0 1,183,244 0	31 49,297 0 0 49,297 0 0 49,297 6,740,853 56,628 87,052 0 1,130,000 0 1,273,681 0	33,265 0 0 33,265 0 0 33,265 0 0 33,265 6,774,118 26,694 41,036 0 669,356 0 737,086 0	31 19,131 0 0 19,131 0 0 19,131 6,793,249 0 0 0 0 0 30,000 0 0	30 19,313 0 0 19,313 0 0 19,313 6,812,562 0 0 0 0 30,000 0 0	31 19,131 0 0 19,131 0 0 19,131 6,831,693 0 0 0 0 30,000 0 0	327,114 0 0 327,114 0 0 327,114 - 182,846 281,082 0 4,059,356 240,000 4,763,284 0
Runoff (m³)  Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit  Runoff (m³)  Transfer from SC (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  End-of-Month Volume (m³)  Vault Attenuation Pond	31 19,131 0 0 19,131 0 0 19,131 6,523,710 0 0 0 0 30,000 30,000 31,188,524	28  19,313 0 0 19,313 0 0 19,313 0 0 19,313 6,543,023 0 0 0 0 0 30,000 30,000 0 30,000 31,218,524	31 19,131 0 0 19,131 0 0 19,131 6,562,154 0 0 0 30,000 30,000 0 30,000 31,248,524	19,131 0 19,131 0 19,131 0 19,131 6,581,285 0 0 0 30,000 30,000 0 30,000 31,278,524	31 19,313 0 0 19,313 0 0 19,313 6,600,598 0 0 0 30,000 30,000 0 30,000 31,308,524	30 60,716 0 0 60,716 0 0 60,716 6,661,314 78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 32,637,798	31 30,242 0 0 30,242 0 0 30,242 6,691,556 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 33,821,042	31 49,297 0 0 49,297 0 0 49,297 6,740,853 56,628 87,052 0 1,130,000 0 1,273,681 0 0 1,273,681 35,094,722	30 33,265 0 0 33,265 0 0 33,265 6,774,118 26,694 41,036 0 669,356 0 737,086 0 0 33,265 0 737,086	31 19,131 0 0 19,131 0 0 19,131 6,793,249 0 0 0 30,000 0 30,000 0 30,000 35,861,808	30 19,313 0 0 19,313 0 0 19,313 6,812,562 0 0 0 30,000 30,000 0 30,000 30,000 35,891,808	31 19,131 0 0 19,131 0 0 19,131 6,831,693 0 0 0 30,000 30,000 0 30,000 35,921,808	327,114 0 0 0 327,114 0 0 327,114 0 182,846 281,082 0 4,059,356 240,000 4,763,284 0 0 4,763,284
Runoff (m³)  Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit  Runoff (m³)  Transfer from SC (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Attenuation Pond  Runoff (m³)	31 19,131 0 0 19,131 0 0 19,131 6,523,710 0 0 0 30,000 30,000 0 30,000 31,188,524	28  19,313 0 0 19,313 0 0 19,313 0 0 19,313 6,543,023  0 0 0 30,000 30,000 0 30,000 31,218,524	31 19,131 0 0 19,131 0 0 19,131 6,562,154 0 0 0 30,000 0 30,000 0 30,000 31,248,524	30 19,131 0 0 19,131 0 0 19,131 6,581,285 0 0 0 30,000 0 30,000 0 30,000 31,278,524	31 19,313 0 0 19,313 0 0 19,313 6,600,598 0 0 0 30,000 0 30,000 0 30,000 30,000 0 30,000 0	30 60,716 0 0 60,716 0 0 60,716 6,661,314 78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 32,637,798	31 30,242 0 0 30,242 0 0 30,242 6,691,556 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 33,821,042	31 49,297 0 0 49,297 0 0 49,297 6,740,853 56,628 87,052 0 1,130,000 0 1,273,681 0 1,273,681 35,094,722	30 33,265 0 0 33,265 0 0 33,265 6,774,118 26,694 41,036 0 669,356 0 737,086 0 0 737,086 35,831,808	31 19,131 0 0 19,131 0 0 19,131 6,793,249 0 0 0 30,000 0 30,000 0 30,000 30,0	30 19,313 0 0 19,313 0 0 19,313 6,812,562 0 0 0 30,000 30,000 0 30,000 30,000 30,000 0 30,000 30,000 0	31 19,131 0 0 19,131 0 0 19,131 6,831,693 0 0 0 30,000 30,000 0 30,000 30,000 35,921,808	327,114 0 0 0 327,114 0 0 327,114 0 182,846 281,082 0 4,059,356 240,000 4,763,284 0 0 4,763,284 - 367,144
Runoff (m³)  Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit  Runoff (m³)  Transfer from SC (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Attenuation Pond  Runoff (m³)  Pumped From Vault Pit (m³)	31 19,131 0 0 19,131 0 0 19,131 6,523,710 0 0 0 0 30,000 30,000 31,188,524	28  19,313 0 0 19,313 0 0 19,313 0 0 19,313 6,543,023  0 0 0 30,000 0 30,000 0 30,000 31,218,524	31 19,131 0 0 19,131 0 0 19,131 6,562,154 0 0 0 30,000 0 30,000 0 30,000 31,248,524	30 19,131 0 0 19,131 0 0 19,131 6,581,285 0 0 0 0 30,000 0 30,000 0 30,000 0 31,278,524	31 19,313 0 0 19,313 0 0 19,313 6,600,598 0 0 0 30,000 0 30,000 0 30,000 30,000 30,000 0 0 0 0 0 0 0 0 0 0 0 0	30 60,716 0 0 60,716 0 0 60,716 6,661,314 78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 32,637,798 183,978 0	31 30,242 0 0 30,242 0 0 30,242 6,691,556 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 33,821,042	31 49,297 0 0 49,297 0 0 49,297 6,740,853 56,628 87,052 0 1,130,000 0 1,273,681 0 0 1,273,681 35,094,722	30 33,265 0 0 33,265 0 0 33,265 6,774,118 26,694 41,036 0 669,356 0 737,086 0 0 737,086 35,831,808	31 19,131 0 0 19,131 0 0 19,131 6,793,249 0 0 0 0 30,000 0 30,000 0 30,000 0 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	30  19,313  0  0  19,313  0  0  19,313  0  19,313  6,812,562  0  0  0  30,000  30,000  0  30,000  35,891,808	31 19,131 0 0 19,131 0 0 19,131 6,831,693 0 0 0 30,000 0 30,000 0 30,000 30,0	327,114 0 0 0 327,114 0 0 327,114 0 182,846 281,082 0 4,059,356 240,000 4,763,284 0 0 4,763,284 - 367,144 0
Runoff (m³)  Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit  Runoff (m³)  Transfer from SC (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  Puth Inflow (m³)  Pumped Trom Volume (m³)  Yault Attenuation Pond  Runoff (m³)  Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)	31 19,131 0 0 19,131 0 0 19,131 6,523,710 0 0 0 0 30,000 0 30,000 0 30,000 31,188,524	28  19,313 0 0 19,313 0 0 19,313 0 0 19,313 6,543,023  0 0 30,000 30,000 0 30,000 31,218,524	31 19,131 0 0 19,131 0 0 19,131 6,562,154 0 0 0 30,000 0 30,000 0 30,000 31,248,524	30 19,131 0 0 19,131 0 0 19,131 6,581,285 0 0 0 30,000 0 30,000 0 30,000 31,278,524	31 19,313 0 0 19,313 0 0 19,313 6,600,598 0 0 0 30,000 0 30,000 0 30,000 30,000 0 30,000 0	30 60,716 0 0 60,716 0 0 60,716 6,661,314 78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 32,637,798	31 30,242 0 0 30,242 0 0 30,242 6,691,556 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 33,821,042	31 49,297 0 0 49,297 0 0 49,297 6,740,853 56,628 87,052 0 1,130,000 0 1,273,681 0 1,273,681 35,094,722	30 33,265 0 0 33,265 0 0 33,265 6,774,118 26,694 41,036 0 669,356 0 737,086 0 0 737,086 35,831,808	31 19,131 0 0 19,131 0 0 19,131 6,793,249 0 0 0 30,000 0 30,000 0 30,000 30,0	30 19,313 0 0 19,313 0 0 19,313 6,812,562 0 0 0 30,000 30,000 0 30,000 30,000 30,000 0 30,000 30,000 0	31 19,131 0 0 19,131 0 0 19,131 6,831,693 0 0 0 30,000 30,000 0 30,000 30,000 35,921,808	327,114 0 0 0 327,114 0 0 327,114 0 182,846 281,082 0 4,059,356 240,000 4,763,284 0 0 4,763,284 - 367,144
Runoff (m³)  Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit  Runoff (m³)  Transfer from SC (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Vault Attenuation Pond  Runoff (m³)  Pumped From Vault Pit (m³)	31 19,131 0 0 19,131 0 0 19,131 6,523,710 0 0 0 0 30,000 0 30,000 0 30,000 31,188,524	28  19,313 0 0 19,313 0 0 19,313 0 0 19,313 6,543,023  0 0 0 30,000 30,000 0 30,000 31,218,524  0 0 0	31 19,131 0 0 19,131 0 0 19,131 6,562,154 0 0 0 30,000 0 30,000 0 30,000 31,248,524	30 19,131 0 0 19,131 0 0 19,131 6,581,285 0 0 0 30,000 0 30,000 0 30,000 0 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	31 19,313 0 0 19,313 0 0 19,313 6,600,598 0 0 0 30,000 0 30,000 0 30,000 30,000 0 0 0 0 0 0 0 0 0 0 0 0	30 60,716 0 0 60,716 0 0 60,716 6,661,314 78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 32,637,798 183,978 0	31 30,242 0 0 30,242 0 0 30,242 6,691,556 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 33,821,042 23,105 0	31 49,297 0 0 49,297 0 0 49,297 6,740,853 56,628 87,052 0 1,130,000 0 1,273,681 0 0 1,273,681 35,094,722	30 33,265 0 0 33,265 0 0 33,265 6,774,118 26,694 41,036 0 669,356 0 737,086 0 737,086 35,831,808	31 19,131 0 0 19,131 0 0 19,131 6,793,249 0 0 0 30,000 0 30,000 0 30,000 0 30,000 0 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	30  19,313  0  0  19,313  0  0  19,313  0  19,313  6,812,562  0  0  30,000  30,000  0  30,000  30,000  35,891,808	31 19,131 0 0 19,131 0 0 19,131 6,831,693 0 0 0 0 30,000 0 30,000 0 30,000 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	327,114 0 0 0 327,114 0 0 327,114 0 182,846 281,082 0 4,059,356 240,000 4,763,284 0 0 4,763,284 - 367,144 0 0
Runoff (m³)  Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit  Runoff (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Net Inflow (m³)  Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Yault Attenuation Pond  Runoff (m³)  Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Pumped From Wally Lake (m³)	31 19,131 0 0 19,131 0 0 19,131 6,523,710 0 0 0 0 30,000 0 30,000 0 30,000 31,188,524	28  19,313 0 0 19,313 0 0 19,313 0 0 19,313 6,543,023  0 0 0 30,000 30,000 0 30,000 31,218,524  0 0 0 0	31 19,131 0 0 19,131 0 0 19,131 6,562,154 0 0 0 30,000 30,000 0 30,000 31,248,524	30 19,131 0 0 19,131 0 0 19,131 6,581,285 0 0 0 0 30,000 30,000 0 30,000 0 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	31 19,313 0 0 19,313 0 0 19,313 6,600,598 0 0 0 30,000 0 30,000 0 30,000 30,000 0 0 0 0 0 0 0 0 0 0 0 0	30 60,716 0 0 60,716 0 0 60,716 6,661,314 78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 32,637,798 183,978 0 0	31 30,242 0 0 30,242 0 0 30,242 6,691,556 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 33,821,042 23,105 0 0	31 49,297 0 0 49,297 0 0 49,297 6,740,853 56,628 87,052 0 1,130,000 0 1,273,681 0 0 1,273,681 35,094,722	30 33,265 0 0 33,265 0 0 33,265 6,774,118 26,694 41,036 0 669,356 0 737,086 35,831,808 52,710 0 0 314,194	31 19,131 0 0 19,131 0 0 19,131 6,793,249 0 0 0 30,000 0 30,000 0 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	30  19,313  0  0  19,313  0  0  19,313  0  19,313  6,812,562  0  0  0  30,000  30,000  0  30,000  35,891,808	31 19,131 0 0 19,131 0 0 19,131 6,831,693 0 0 0 0 30,000 0 30,000 0 30,000 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	327,114 0 0 0 327,114 0 0 327,114 0 0 327,114 - 182,846 281,082 0 4,059,356 240,000 4,763,284 0 0 4,763,284 - 367,144 0 0 314,194
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit Runoff (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Net Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  Pumped From Volume (m³)  Yault Attenuation Pond Runoff (m³)  Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)	31  19,131 0 0 19,131 0 0 19,131 6,523,710  0 0 0 30,000 30,000 0 30,000 0 0 0 0	28  19,313 0 0 19,313 0 0 19,313 0 0 19,313 6,543,023  0 0 0 30,000 30,000 0 30,000 31,218,524  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31 19,131 0 0 19,131 0 0 19,131 6,562,154 0 0 0 30,000 30,000 0 30,000 30,000 0 0 0 0 0 0 0 0 0 0 0 0	30  19,131 0 0 19,131 0 0 19,131 0 0 19,131 6,581,285 0 0 0 30,000 30,000 0 30,000 0 31,278,524 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31 19,313 0 0 19,313 0 0 19,313 6,600,598 0 0 0 30,000 30,000 0 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 6,661,314  78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 32,637,798  183,978 0 0 183,978 0 0	31 30,242 0 0 30,242 0 0 30,242 6,691,556 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 33,821,042 23,105 0 0 0	31 49,297 0 0 49,297 0 0 49,297 6,740,853 56,628 87,052 0 1,130,000 0 1,273,681 0 0 1,273,681 35,094,722 107,352 0 0 107,352	30 33,265 0 0 33,265 0 0 33,265 6,774,118 26,694 41,036 0 669,356 0 737,086 0 0 737,086 35,831,808 52,710 0 0 314,194 366,904 0	31 19,131 0 0 19,131 0 0 19,131 6,793,249 0 0 0 0 30,000 0 30,000 0 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	30  19,313 0 0 19,313 0 0 19,313 0 0 19,313 6,812,562  0 0 0 30,000 30,000 0 30,000 30,000 0 0 0	31 19,131 0 0 19,131 0 0 19,131 6,831,693 0 0 0 0 30,000 30,000 0 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	327,114 0 0 0 327,114 0 0 327,114 0 0 327,114 - 182,846 281,082 0 4,059,356 240,000 4,763,284 0 0 4,763,284 - 367,144 0 0 0 314,194 681,338 0 0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit Runoff (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Net Inflow (m³)  Net Inflow (m³)  Pumped From Volume (m³)  Yault Attenuation Pond Runoff (m³)  Pumped From Phaser Pit (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped Trom Wally Lake (m³)  Total Inflow (m³)  Pumped Trom Vally Lake (m³)  Total Inflow (m³)  Pumped From Vally Lake (m³)	31  19,131  0  0  19,131  0  19,131  0  19,131  6,523,710  0  0  0  30,000  30,000  0  30,000  0  0  0  0  0  0  0  0  0  0  0	28  19,313 0 0 19,313 0 19,313 0 19,313 6,543,023 0 0 0 0 30,000 30,000 0 30,000 0 31,218,524 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131  0  19,131  0  19,131  0  19,131  6,562,154  0  0  0  30,000  30,000  0  30,000  0  0  0  0  0  0  0  0  0  0  0	30  19,131 0 0 19,131 0 19,131 0 19,131 6,581,285 0 0 0 30,000 30,000 0 30,000 0 31,278,524 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31 19,313 0 0 19,313 0 0 19,313 6,600,598 0 0 0 30,000 30,000 0 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 0 1,329,274 0 1,329,274 0 1,329,274 32,637,798 183,978 0 0 183,978 0 183,978	31 30,242 0 0 30,242 0 0 30,242 6,691,556 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 33,821,042 23,105 0 0 23,105	31 49,297 0 0 49,297 0 0 49,297 6,740,853 56,628 87,052 0 1,130,000 0 1,273,681 0 0 1,273,681 35,094,722 107,352 0 0 107,352	30 33,265 0 0 33,265 0 0 33,265 6,774,118 26,694 41,036 0 669,356 0 737,086 0 0 737,086 35,831,808 52,710 0 0 314,194 366,904 0 0 366,904	31  19,131 0 0 19,131 0 0 19,131 0 0 19,131 6,793,249  0 0 0 30,000 0 30,000 0 30,000 0 0 0 0	30  19,313 0 0 19,313 0 19,313 0 19,313 6,812,562 0 0 0 30,000 30,000 0 30,000 0 30,000 0 0 0	31  19,131 0 0 19,131 0 19,131 0 19,131 6,831,693 0 0 0 30,000 30,000 0 30,000 0 0 30,000 0 0 0	327,114 0 0 0 327,114 0 0 327,114 0 0 327,114 - 182,846 281,082 0 4,059,356 240,000 4,763,284 0 0 4,763,284 - 367,144 0 0 0 314,194 681,338 0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit Runoff (m³)  Transfer from SC (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Net Inflow (m³)  Net Inflow (m³)  Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped Trom Wally Lake (m³)  Total Inflow (m³)  Pumped Trom Vault Pit (m³)  Pumped Trom Vault Pit (m³)  Pumped Trom Vally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Fotal Outflow (m³)  End-of-Month Volume (m³)	31  19,131 0 0 19,131 0 0 19,131 6,523,710  0 0 0 30,000 30,000 0 30,000 0 0 0 0	28  19,313 0 0 19,313 0 0 19,313 0 0 19,313 6,543,023  0 0 0 30,000 30,000 0 30,000 31,218,524  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31 19,131 0 0 19,131 0 0 19,131 6,562,154 0 0 0 30,000 30,000 0 30,000 30,000 0 0 0 0 0 0 0 0 0 0 0 0	30  19,131 0 0 19,131 0 0 19,131 0 0 19,131 6,581,285 0 0 0 30,000 30,000 0 30,000 0 31,278,524 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31 19,313 0 0 19,313 0 0 19,313 6,600,598 0 0 0 30,000 30,000 0 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 6,661,314  78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 32,637,798  183,978 0 0 183,978 0 0	31 30,242 0 0 30,242 0 0 30,242 6,691,556 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 33,821,042 23,105 0 0 0	31 49,297 0 0 49,297 0 0 49,297 6,740,853 56,628 87,052 0 1,130,000 0 1,273,681 0 0 1,273,681 35,094,722 107,352 0 0 107,352	30 33,265 0 0 33,265 0 0 33,265 6,774,118 26,694 41,036 0 669,356 0 737,086 0 0 737,086 35,831,808 52,710 0 0 314,194 366,904 0	31 19,131 0 0 19,131 0 0 19,131 6,793,249 0 0 0 0 30,000 0 30,000 0 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	30  19,313 0 0 19,313 0 0 19,313 0 0 19,313 6,812,562  0 0 0 30,000 30,000 0 30,000 30,000 0 0 0	31 19,131 0 0 19,131 0 0 19,131 6,831,693 0 0 0 0 30,000 30,000 0 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	327,114 0 0 0 327,114 0 0 327,114 0 0 327,114 - 182,846 281,082 0 4,059,356 240,000 4,763,284 0 0 4,763,284 - 367,144 0 0 0 314,194 681,338 0 0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit Runoff (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Net Inflow (m³)  Net Inflow (m³)  Pumped From Volume (m³)  Yault Attenuation Pond Runoff (m³)  Pumped From Phaser Pit (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped Trom Wally Lake (m³)  Total Inflow (m³)  Pumped Trom Vally Lake (m³)  Total Inflow (m³)  Pumped From Vally Lake (m³)	31  19,131  0  0  19,131  0  19,131  0  19,131  6,523,710  0  0  0  30,000  30,000  0  30,000  0  0  0  0  0  0  0  0  0  0  0	28  19,313 0 0 19,313 0 19,313 0 19,313 6,543,023 0 0 0 0 30,000 30,000 0 30,000 0 31,218,524 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131  0  19,131  0  19,131  0  19,131  6,562,154  0  0  0  30,000  30,000  0  30,000  0  0  0  0  0  0  0  0  0  0  0	30  19,131 0 0 19,131 0 19,131 0 19,131 6,581,285 0 0 0 30,000 30,000 0 30,000 0 31,278,524 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31 19,313 0 0 19,313 0 0 19,313 6,600,598 0 0 0 30,000 30,000 0 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 0 1,329,274 0 1,329,274 0 1,329,274 32,637,798 183,978 0 0 183,978 0 183,978	31 30,242 0 0 30,242 0 0 30,242 6,691,556 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 33,821,042 23,105 0 0 23,105	31 49,297 0 0 49,297 0 0 49,297 6,740,853 56,628 87,052 0 1,130,000 0 1,273,681 0 0 1,273,681 35,094,722 107,352 0 0 107,352	30 33,265 0 0 33,265 0 0 33,265 6,774,118 26,694 41,036 0 669,356 0 737,086 0 0 737,086 35,831,808 52,710 0 0 314,194 366,904 0 0 366,904	31  19,131 0 0 19,131 0 0 19,131 0 0 19,131 6,793,249  0 0 0 30,000 0 30,000 0 30,000 0 0 0 0	30  19,313 0 0 19,313 0 19,313 0 19,313 6,812,562 0 0 0 30,000 30,000 0 30,000 0 30,000 0 0 0	31  19,131 0 0 19,131 0 19,131 0 19,131 6,831,693 0 0 0 30,000 30,000 0 30,000 0 0 30,000 0 0 0	327,114 0 0 0 327,114 0 0 327,114 0 0 327,114 - 182,846 281,082 0 4,059,356 240,000 4,763,284 0 0 4,763,284 - 367,144 0 0 0 314,194 681,338 0 0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit Runoff (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Net Inflow (m³)  Net Inflow (m³)  Pumped From Vault Pit (m³)  Pumped From Phaser Pit (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped Trom Wally Lake (m³)  Pocant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  Pocant - TSS to Wally Lake (m³)  Total Outflow (m³)  End-of-Month Volume (m³)  Pocant - TSS to Wally Lake (m³)  Total Outflow (m³)  End-of-Month Volume (m³)  End-of-Month Volume (m³)  End-of-Month Volume (m³)  End-of-Month Volume (m³)	31  19,131 0 0 19,131 0 19,131 0 19,131 6,523,710  0 0 0 30,000 30,000 0 30,000 0 0 30,000 0 0 0	28  19,313 0 0 19,313 0 19,313 0 19,313 6,543,023 0 0 0 0 30,000 30,000 0 30,000 0 0 30,000 0 0 0	31 19,131 0 0 19,131 0 19,131 6,562,154 0 0 0 0 30,000 30,000 0 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	30  19,131 0 0 19,131 0 19,131 0 19,131 6,581,285 0 0 0 30,000 30,000 0 30,000 0 31,278,524 0 0 0 0 0 0 0 0 2,742,991	31 19,313 0 0 19,313 0 0 19,313 6,600,598 0 0 0 30,000 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 0 1,329,274 0 1,329,274 0 1,329,274 32,637,798 183,978 0 0 183,978 0 0 183,978 2,926,968	31 30,242 0 0 30,242 0 0 30,242 6,691,556 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 33,821,042 23,105 0 0 23,105 0 0 23,105 2,950,073	31  49,297 0 0 49,297 0 49,297 0 49,297 6,740,853  56,628 87,052 0 1,130,000 0 1,273,681 0 0 1,273,681 35,094,722  107,352 0 0 107,352 0 0 107,352 3,057,425	30 33,265 0 0 33,265 0 0 33,265 6,774,118 26,694 41,036 0 669,356 0 737,086 0 0 737,086 35,831,808 52,710 0 0 314,194 366,904 0 366,904 3,424,329	31 19,131 0 0 19,131 0 0 19,131 6,793,249 0 0 0 0 30,000 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	30  19,313 0 0 19,313 0 19,313 0 19,313 6,812,562 0 0 0 30,000 30,000 0 30,000 0 30,000 0 0 0	31  19,131 0 0 19,131 0 19,131 0 19,131 6,831,693 0 0 0 30,000 30,000 0 30,000 0 0 30,000 0 0 0	327,114 0 0 0 327,114 0 0 327,114 0 0 327,114 - 182,846 281,082 0 4,059,356 240,000 4,763,284 0 0 4,763,284 - 367,144 0 0 0 314,194 681,338 0 0 681,338
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit Runoff (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Net Inflow (m³)  Net Inflow (m³)  Pumped From Vault Pit (m³)  Pumped From Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Pumped Total Inflow (m³)  Pumped From Vault Pit (m³)  Pumped From Vault Pit (m³)  Pumped From Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  End-of-Month Volume (m³)  Yault Open Pit  Runoff (m³)	31  19,131 0 0 19,131 0 0 19,131 0 0 19,131 6,523,710  0 0 0 30,000 30,000 0 30,000 0 0 30,000 0 0 0	28  19,313 0 0 19,313 0 0 19,313 0 0 19,313 6,543,023 0 0 0 0 30,000 30,000 0 30,000 31,218,524 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131 0 0 19,131 0 0 19,131 0 0 19,131 6,562,154  0 0 0 30,000 30,000 0 30,000 0 0 30,000 0 0 0	30  19,131 0 0 19,131 0 0 19,131 0 0 19,131 6,581,285 0 0 0 30,000 30,000 0 30,000 0 30,000 0 0 0	31  19,313 0 0 19,313 0 0 19,313 0 0 19,313 6,600,598 0 0 0 30,000 30,000 0 30,000 0 30,000 0 0 0	30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 0 1,329,274 0 1,329,274 0 1,329,274 32,637,798 183,978 0 0 183,978 0 183,978 0 183,978 0 66,526	31 30,242 0 0 30,242 0 0 30,242 6,691,556 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 33,821,042 23,105 0 0 23,105 0 0 23,105 2,950,073	31  49,297 0 0 49,297 0 49,297 0 49,297 6,740,853  56,628 87,052 0 1,130,000 0 1,273,681 0 0 1,273,681 35,094,722  107,352 0 0 107,352 0 107,352 3,057,425	30 33,265 0 0 33,265 0 0 33,265 6,774,118 26,694 41,036 0 669,356 0 737,086 0 0 737,086 35,831,808 52,710 0 0 314,194 366,904 0 0 366,904 3,424,329 22,611	31  19,131 0 0 19,131 0 0 19,131 0 0 19,131 6,793,249  0 0 0 30,000 30,000 0 30,000 0 0 30,000 0 0 0	30  19,313 0 0 19,313 0 0 19,313 0 0 19,313 6,812,562 0 0 0 30,000 30,000 0 30,000 0 30,000 0 0 0	31  19,131 0 0 19,131 0 19,131 0 19,131 6,831,693 0 0 0 30,000 0 30,000 0 30,000 0 0 30,000 0 0 0	327,114 0 0 0 327,114 0 0 327,114 0 0 327,114 - 182,846 281,082 0 4,059,356 240,000 4,763,284 0 0 4,763,284 - 367,144 0 0 0 314,194 681,338 0 0 681,338 -
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³)  End-of-Month Volume (m³)  Portage Pit Runoff (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Net Inflow (m³)  Net Inflow (m³)  Pumped From Vault Pit (m³)  Pumped From Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  Pumped From Vault Pit (m³)  Pumped From Wally Lake (m³)  Total Inflow (m³)  End-of-Month Volume (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  End-of-Month Volume (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  End-of-Month Volume (m³)  Pumped From Pit  Runoff (m³)  Pumped from Wally Lake (m³)	31  19,131 0 0 19,131 0 0 19,131 6,523,710  0 0 0 30,000 30,000 0 30,000 31,188,524  0 0 0 0 0 2,742,991 0 0	28  19,313 0 0 19,313 0 0 19,313 0 0 19,313 6,543,023 0 0 0 0 30,000 30,000 0 30,000 31,218,524 0 0 0 0 0 2,742,991 0 0 0 0 0 0 0	31  19,131 0 0 19,131 0 0 19,131 0 0 19,131 6,562,154  0 0 0 30,000 30,000 0 30,000 0 30,000 0 0 0	30  19,131 0 0 19,131 0 0 19,131 0 0 19,131 6,581,285 0 0 0 30,000 30,000 0 30,000 0 30,000 0 0 0	31 19,313 0 0 19,313 0 0 19,313 6,600,598 0 0 0 30,000 30,000 0 30,000 30,000 0 0 0 0 0 0 0 0 0 0 0 0	30  60,716 0 0 60,716 0 0 60,716 0 0 60,716 6,661,314  78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 32,637,798  183,978 0 0 183,978 0 0 183,978 2,926,968 66,526 603,783 670,309 0	31 30,242 0 0 30,242 0 0 30,242 6,691,556 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 33,821,042 23,105 0 0 23,105 0 23,105 17,775 1,006,306	31  49,297 0 0 49,297 0 0 49,297 6,740,853  56,628 87,052 0 1,130,000 0 1,273,681 0 0 1,273,681 35,094,722  107,352 0 0 107,352 0 0 107,352 3,057,425  47,967 1,345,383 1,393,350 0	30 33,265 0 0 33,265 0 0 33,265 6,774,118 26,694 41,036 0 669,356 0 737,086 35,831,808 52,710 0 0 314,194 366,904 0 0 366,904 3,424,329 22,611 0	31  19,131 0 0 19,131 0 0 19,131 0 0 19,131 6,793,249  0 0 0 30,000 30,000 0 30,000 0 0 30,000 0 0 0	30  19,313 0 0 19,313 0 0 19,313 0 0 19,313 6,812,562 0 0 0 30,000 30,000 0 30,000 0 30,000 0 0 0	31  19,131  0  0  19,131  0  0  19,131  6,831,693  0  0  0  30,000  30,000  0  30,000  0  0  0  0  0  0  0  0  0  0  0	327,114 0 0 0 327,114 0 0 0 327,114 0 0 327,114 - 182,846 281,082 0 4,059,356 240,000 4,763,284 0 0 4,763,284 - 367,144 0 0 0 314,194 681,338 0 0 681,338 - 154,880 2,955,472 3,110,352 0
Runoff (m³)  Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  Portage Pit  Runoff (m³)  Transfer from SC (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Net Inflow (m³)  Net Inflow (m³)  Pumped From Volume (m³)  Pumped From Vault Pit (m³)  Pumped From Wally Lake (m³)  Total Outflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Putl Inflow (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)	31  19,131  0  0  19,131  0  19,131  0  19,131  6,523,710  0  0  30,000  30,000  30,000  30,000  0  0  0  0  0  0  0  0  0  0  0	28  19,313 0 0 19,313 0 0 19,313 0 0 19,313 6,543,023 0 0 0 0 30,000 30,000 30,000 31,218,524 0 0 0 0 0 0 2,742,991 0 0 0 0 0 0 0	31  19,131  0  0  19,131  0  19,131  0  19,131  6,562,154  0  0  30,000  30,000  30,000  30,000  0  0  0  0  0  0  0  0  0  0  0	30  19,131 0 0 19,131 0 0 19,131 6,581,285 0 0 0 30,000 30,000 0 30,000 31,278,524 0 0 0 0 0 2,742,991 0 0 0 0 0	31 19,313 0 0 19,313 0 0 19,313 6,600,598 0 0 0 30,000 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 6,661,314 78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 32,637,798 183,978 0 0 183,978 0 0 183,978 2,926,968 66,526 603,783 670,309 0	31 30,242 0 0 30,242 0 0 30,242 6,691,556 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 33,821,042 23,105 0 0 23,105 0 0 23,105 1,7775 1,006,306 1,024,081 0	31  49,297  0  0  49,297  0  49,297  6,740,853  56,628  87,052  0  1,130,000  0  1,273,681  0  0  1,273,681  35,094,722  107,352  0  0  107,352  0  107,352  3,057,425  47,967  1,345,383  1,393,350  0  0	30 33,265 0 0 33,265 0 0 33,265 6,774,118 26,694 41,036 0 669,356 0 737,086 0 0 737,086 35,831,808 52,710 0 0 314,194 366,904 0 0 366,904 3,424,329 22,611 0 0	31  19,131 0 0 19,131 0 0 19,131 0 0 19,131 6,793,249  0 0 0 30,000 30,000 0 30,000 0 0 0 0 0	30  19,313 0 0 19,313 0 0 19,313 0 0 19,313 6,812,562 0 0 0 30,000 30,000 0 30,000 35,891,808 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131  0  0  19,131  0  0  19,131  6,831,693  0  0  0  30,000  30,000  30,000  0  0  0  0  0  0  0  0  0  0  0	327,114 0 0 0 327,114 0 0 0 327,114 0 0 327,114 - 182,846 281,082 0 4,059,356 240,000 4,763,284 0 0 4,763,284 - 367,144 0 0 0 314,194 681,338 0 0 681,338 - 154,880 2,955,472 3,110,352 0 0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) Portage Pit Runoff (m³)  Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³) Net Inflow (m³) Pumped From Volume (m³)  Yault Attenuation Pond Runoff (m³) Pumped From Wally Lake (m³)  Total Inflow (m³) Pend-of-Month Volume (m³)  Total Inflow (m³) Pumped from Wally Lake (m³)	31  19,131  0  0  19,131  0  19,131  0  19,131  6,523,710  0  0  30,000  30,000  30,000  30,000  30,000  0  0  0  0  0  0  0  0  0  0  0	28  19,313 0 0 19,313 0 0 19,313 6,543,023 0 0 0 0 30,000 30,000 31,218,524 0 0 0 0 0 2,742,991 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131  0  0  19,131  0  19,131  6,562,154  0  0  30,000  30,000  30,000  30,000  30,000  0  0  0  0  0  0  0  0  0  0  0	30  19,131 0 0 19,131 0 0 19,131 6,581,285 0 0 0 30,000 30,000 0 30,000 31,278,524 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31 19,313 0 0 19,313 0 0 19,313 6,600,598 0 0 0 0 30,000 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 6,661,314 78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 32,637,798 183,978 0 0 183,978	31 30,242 0 0 30,242 6,691,556 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 33,821,042 23,105 0 0 23,105 0 0 23,105 1,7775 1,006,306 1,024,081 0 0 1,024,081	31  49,297  0  0  49,297  0  49,297  6,740,853  56,628  87,052  0  1,130,000  0  1,273,681  0  0  1,273,681  35,094,722  107,352  0  0  107,352  0  107,352  3,057,425  47,967  1,345,383  1,393,350  0  1,393,350	30 33,265 0 0 33,265 0 0 33,265 6,774,118 26,694 41,036 0 669,356 0 737,086 0 0 737,086 35,831,808 52,710 0 0 314,194 366,904 0 0 366,904 3,424,329 22,611 0 0 0 22,611 0 0 0	31  19,131 0 0 19,131 0 0 19,131 0 0 19,131 6,793,249  0 0 0 30,000 30,000 0 30,000 0 0 0 0 0	30  19,313 0 0 19,313 0 0 19,313 0 0 19,313 6,812,562 0 0 0 30,000 30,000 30,000 0 0 30,000 35,891,808 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131  0  0  19,131  0  19,131  6,831,693  0  0  0  30,000  30,000  30,000  30,000  0  0  0  0  0  0  0  0  0  0  0	327,114 0 0 0 327,114 0 0 0 327,114 0 0 327,114 - 182,846 281,082 0 4,059,356 240,000 4,763,284 0 0 4,763,284 - 367,144 0 0 0 314,194 681,338 0 0 681,338 - 154,880 2,955,472 3,110,352 0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³) Net Inflow (m³) Pumped From Vault Pit (m³) Pumped From Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Pend-of-Month Volume (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)	31  19,131  0  0  19,131  0  19,131  0  19,131  6,523,710  0  0  30,000  30,000  30,000  30,000  0  0  0  0  0  0  0  0  0  0  0	28  19,313 0 0 19,313 0 0 19,313 0 0 19,313 6,543,023 0 0 0 0 30,000 30,000 30,000 31,218,524 0 0 0 0 0 0 2,742,991 0 0 0 0 0 0 0	31  19,131  0  0  19,131  0  19,131  0  19,131  6,562,154  0  0  30,000  30,000  30,000  30,000  0  0  0  0  0  0  0  0  0  0  0	30  19,131 0 0 19,131 0 0 19,131 6,581,285 0 0 0 30,000 30,000 0 30,000 31,278,524 0 0 0 0 0 2,742,991 0 0 0 0 0	31 19,313 0 0 19,313 0 0 19,313 6,600,598 0 0 0 30,000 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 6,661,314 78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 32,637,798 183,978 0 0 183,978 0 0 183,978 2,926,968 66,526 603,783 670,309 0	31 30,242 0 0 30,242 0 0 30,242 6,691,556 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 33,821,042 23,105 0 0 23,105 0 0 23,105 1,7775 1,006,306 1,024,081 0 0	31  49,297  0  0  49,297  0  49,297  6,740,853  56,628  87,052  0  1,130,000  0  1,273,681  0  0  1,273,681  35,094,722  107,352  0  0  107,352  0  107,352  3,057,425  47,967  1,345,383  1,393,350  0  0	30 33,265 0 0 33,265 0 0 33,265 6,774,118 26,694 41,036 0 669,356 0 737,086 0 0 737,086 35,831,808 52,710 0 0 314,194 366,904 0 0 366,904 3,424,329 22,611 0 0	31  19,131 0 0 19,131 0 0 19,131 0 0 19,131 6,793,249  0 0 0 30,000 30,000 0 30,000 0 0 0 0 0	30  19,313 0 0 19,313 0 0 19,313 0 0 19,313 6,812,562 0 0 0 30,000 30,000 0 30,000 35,891,808 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131  0  0  19,131  0  0  19,131  6,831,693  0  0  0  30,000  30,000  30,000  0  0  0  0  0  0  0  0  0  0  0	327,114 0 0 0 327,114 0 0 0 327,114 0 0 327,114 - 182,846 281,082 0 4,059,356 240,000 4,763,284 0 0 4,763,284 - 367,144 0 0 0 314,194 681,338 0 0 681,338 - 154,880 2,955,472 3,110,352 0 0
Runoff (m³)  Transfer from South Cell (m³)  Pumped from Third Portage Lake (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Portage Pit  Runoff (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Inflow (m³)  Pumped to Attenuation Pond (m³)  Pumped to Attenuation Pond (m³)  Total Inflow (m³)  Net Inflow (m³)  Pumped From Volume (m³)  Pumped From Vault Pit (m³)  Pumped From Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Poemped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  Pumped to Attenuation Pond (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  Pumped from Wally Lake (m³)	31 19,131 0 0 19,131 0 0 19,131 6,523,710 0 0 0 0 30,000 30,000 0 0 0 0 0 0 0 0 0 0 0 0	28  19,313 0 0 19,313 0 0 19,313 6,543,023 0 0 0 0 30,000 30,000 30,000 31,218,524 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2,742,991 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131  0  0  19,131  0  19,131  0  19,131  6,562,154  0  0  30,000  30,000  30,000  30,000  30,000  31,248,524  0  0  0  0  0  0  0  0  0  0  0  0  0	30  19,131 0 0 19,131 0 0 19,131 0 0 19,131 6,581,285 0 0 0 30,000 30,000 0 0 30,000 31,278,524 0 0 0 0 0 0 2,742,991 0 0 0 0 0 26,024,901	31 19,313 0 0 19,313 0 0 19,313 6,600,598 0 0 0 0 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 6,661,314 78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 32,637,798 183,978 0 0 183,978	31 30,242 0 0 30,242 6,691,556 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 33,821,042 23,105 0 0 23,105 0 0 23,105 0 1,775 1,006,306 1,024,081 0 0 1,024,081 27,719,292	31  49,297  0  0  49,297  0  49,297  6,740,853  56,628  87,05  1,130,000  0  1,273,681  0  0  1,273,681  35,094,722  107,352  0  0  107,352  0  107,352  0  107,352  47,967  1,345,383  1,393,350  0  1,393,350  29,112,641	30 33,265 0 0 33,265 0 0 33,265 6,774,118 26,694 41,036 0 669,356 0 737,086 0 0 737,086 35,831,808 52,710 0 0 314,194 366,904 0 0 366,904 3,424,329 22,611 0 0 0 22,611 29,135,253	31  19,131  0  0  19,131  0  19,131  0  0  19,131  6,793,249  0  0  0  30,000  30,000  0  30,000  0  0  0  0  0  0  0  0  0  0  0	30  19,313  0  0  19,313  0  0  19,313  6,812,562  0  0  0  30,000  30,000  30,000  0  0  0  0  0  0  0  0  0  0  0	31  19,131  0  0  19,131  0  19,131  0  19,131  6,831,693  0  0  0  30,000  30,000  30,000  0  0  0  0  0  0  0  0  0  0  0	327,114 0 0 0 327,114 0 0 0 327,114 0 0 0 327,114 - 182,846 281,082 0 4,059,356 240,000 4,763,284 0 0 4,763,284 - 367,144 0 0 0 314,194 681,338 0 0 681,338 - 154,880 2,955,472 3,110,352 0 0 3,110,352 -
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³) Net Inflow (m³) Portage Pit Runoff (m³) Transfer from SC (m³) Sewage water from Tear Drop Lake (m³) Pumped from Third Portage Lake (m³) East Dike Seepage (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³) Net Inflow (m³) Pumped From Vault Pit (m³) Pumped From Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Pend-of-Month Volume (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)	31  19,131  0  0  19,131  0  19,131  0  19,131  6,523,710  0  0  30,000  30,000  30,000  30,000  30,000  0  0  0  0  0  0  0  0  0  0  0	28  19,313 0 0 19,313 0 0 19,313 6,543,023 0 0 0 0 30,000 30,000 31,218,524 0 0 0 0 0 2,742,991 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131  0  0  19,131  0  19,131  6,562,154  0  0  30,000  30,000  30,000  30,000  30,000  0  0  0  0  0  0  0  0  0  0  0	30  19,131 0 0 19,131 0 0 19,131 6,581,285 0 0 0 30,000 30,000 0 30,000 31,278,524 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31 19,313 0 0 19,313 0 0 19,313 6,600,598 0 0 0 0 30,000 30,000 0 30,000 0 0 0 0 0 0 0 0 0 0 0 0	30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 6,661,314 78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 32,637,798 183,978 0 0 183,978	31 30,242 0 0 30,242 6,691,556 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 33,821,042 23,105 0 0 23,105 0 0 23,105 1,7775 1,006,306 1,024,081 0 0 1,024,081	31  49,297  0  0  49,297  0  49,297  6,740,853  56,628  87,052  0  1,130,000  0  1,273,681  0  0  1,273,681  35,094,722  107,352  0  0  107,352  0  107,352  3,057,425  47,967  1,345,383  1,393,350  0  1,393,350	30 33,265 0 0 33,265 0 0 33,265 6,774,118 26,694 41,036 0 669,356 0 737,086 0 0 737,086 35,831,808 52,710 0 0 314,194 366,904 0 0 366,904 3,424,329 22,611 0 0 0 22,611 0 0 0	31  19,131 0 0 19,131 0 0 19,131 0 0 19,131 6,793,249  0 0 0 30,000 30,000 0 30,000 0 0 0 0 0	30  19,313 0 0 19,313 0 0 19,313 0 0 19,313 6,812,562 0 0 0 30,000 30,000 30,000 0 0 30,000 35,891,808 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131  0  0  19,131  0  19,131  6,831,693  0  0  0  30,000  30,000  30,000  30,000  0  0  0  0  0  0  0  0  0  0  0	327,114 0 0 0 327,114 0 0 0 327,114 0 0 182,846 281,082 0 4,059,356 240,000 4,763,284 0 0 4,763,284 - 367,144 0 0 0 314,194 681,338 0 0 681,338 - 154,880 2,955,472 3,110,352 0 0
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Net Inflow (m³)  Portage Pit Runoff (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Outflow (m³)  Pumped to Attenuation Pond (m³)  Total Outflow (m³)  Net Inflow (m³)  Pumped From Volume (m³)  Vault Attenuation Pond Runoff (m³)  Pumped From Vault Pit (m³) Pumped From Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  Pumped From Phaser Lake  Runoff (m³)	31  19,131  0  0  19,131  0  19,131  0  0  19,131  6,523,710  0  0  0  30,000  30,000  0  30,000  30,000  31,188,524  0  0  0  0  0  0  0  0  2,742,991  0  0  0  0  26,024,901	28  19,313 0 0 19,313 0 0 19,313 6,543,023 0 0 0 0 30,000 30,000 30,000 31,218,524 0 0 0 0 0 0 0 0 0 0 0 0 0 2,742,991 0 0 0 0 26,024,901	31  19,131  0  0  19,131  0  19,131  0  0  19,131  6,562,154  0  0  30,000  30,000  0  30,000  31,248,524  0  0  0  0  0  0  0  0  0  0  0  0  0	30  19,131 0 0 19,131 0 0 19,131 6,581,285 0 0 0 30,000 30,000 0 30,000 31,278,524 0 0 0 0 0 0 0 2,742,991 0 0 0 0 26,024,901	31 19,313 0 0 19,313 0 0 19,313 6,600,598 0 0 0 0 30,000 30,000 0 0 0 0 0 0 0 0 0 0 0 0	30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 0 0 1,329,274 0 1,329,274 0 1,329,274 32,637,798 183,978 0 0 0 183,978 0 0 0 183,978 0 0 0 183,978 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31 30,242 0 0 30,242 0 0 30,242 6,691,556 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 33,821,042 23,105 0 0 23,105 0 0 23,105 0 0 23,105 0 0 1,7775 1,006,306 1,024,081 0 0 1,024,081 27,719,292	31  49,297  0  0  49,297  0  49,297  6,740,853  56,628  87,052  0  1,130,000  0  1,273,681  0  0  1,273,681  35,094,722  107,352  0  0  107,352  0  0  107,352  0  107,352  0  107,352  0  107,352  0  107,352  0  1,345,383  1,393,350  0  1,393,350  29,112,641	30 33,265 0 0 33,265 0 0 33,265 6,774,118 26,694 41,036 0 669,356 0 737,086 0 0 737,086 35,831,808 52,710 0 0 314,194 366,904 0 0 366,904 3,424,329 22,611 0 0 22,611 0 0 22,611 25,033	31  19,131  0  0  19,131  0  19,131  0  0  19,131  6,793,249  0  0  0  30,000  30,000  0  30,000  0  0  0  0  0  0  0  0  0  0  0	30  19,313 0 0 19,313 0 0 19,313 0 0 19,313 6,812,562 0 0 0 30,000 30,000 0 0 30,000 35,891,808 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131  0  0  19,131  0  19,131  0  0  19,131  6,831,693  0  0  0  30,000  30,000  30,000  0  0  0  0  0  0  0  0  0  0  0	327,114 0 0 0 327,114 0 0 0 327,114 0 0 0 327,114 182,846 281,082 0 4,059,356 240,000 4,763,284 0 0 4,763,284 367,144 0 0 0 314,194 681,338 0 0 681,338 - 154,880 2,955,472 3,110,352 0 0 3,110,352 171,470
Goose Pit (ATP) Runoff (m³) Transfer from South Cell (m³) Pumped from Third Portage Lake (m³)  Total Inflow (m³) Pumped to Attenuation Pond (m³)  Total Outflow (m³)  End-of-Month Volume (m³)  Portage Pit Runoff (m³)  Sewage water from Tear Drop Lake (m³)  Pumped from Third Portage Lake (m³)  East Dike Seepage (m³)  Total Outflow (m³)  Net Inflow (m³)  Net Inflow (m³)  Pumped to Attenuation Pond (m³)  Vault Attenuation Pond Runoff (m³)  Pumped From Vault Pit (m³) Pumped From Wally Lake (m³)  Total Inflow (m³)  Decant - TSS to Wally Lake (m³)  Total Outflow (m³)  Net Inflow (m³)  Pumped from Wally Lake (m³)  Total Outflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  End-of-Month Volume (m³)  Pumped from Wally Lake (m³)  Total Inflow (m³)  Pumped Total Inflow (m³)  Pumped Total Inflow (m³)  Pumped Total Inflow (m³)  Pumped Total Inflow (m³)  Potal Inflow (m³)  Potal Inflow (m³)  Potal Inflow (m³)  Potal Inflow (m³)	31  19,131  0  0  19,131  0  19,131  0  0  19,131  6,523,710  0  0  0  30,000  30,000  30,000  30,000  0  0  0  0  0  0  0  0  0  0  0	28  19,313 0 0 19,313 0 0 19,313 6,543,023 0 0 0 0 30,000 30,000 0 30,000 31,218,524 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131  0  0  19,131  0  19,131  0  19,131  6,562,154  0  0  30,000  30,000  30,000  30,000  30,000  0  0  0  0  0  0  0  0  0  0  0	30  19,131 0 0 19,131 0 0 19,131 6,581,285 0 0 0 30,000 30,000 0 30,000 31,278,524 0 0 0 0 0 0 0 2,742,991 0 0 0 26,024,901	31  19,313  0  0  19,313  0  0  19,313  6,600,598  0  0  0  30,000  30,000  0  30,000  30,000  0  0  0  0  0  0  0  0  0  0  0	30 60,716 0 0 60,716 0 0 60,716 0 0 60,716 6,661,314 78,539 120,735 0 1,130,000 0 1,329,274 0 0 1,329,274 32,637,798 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 0 183,978 0 7 183,978 0	31 30,242 0 0 30,242 6,691,556 20,985 32,259 0 1,130,000 0 1,183,244 0 0 1,183,244 33,821,042 23,105 0 0 23,105 0 0 23,105 0 0 23,105 0 0 1,775 1,006,306 1,024,081 0 0 1,024,081 27,719,292	31  49,297  0  0  49,297  0  49,297  6,740,853  56,628  87,052  0  1,130,000  0  1,273,681  0  0  1,273,681  35,094,722  107,352  0  0  107,352  0  107,352  0  107,352  0  107,352  0  107,352  0  107,352  0  107,352  0  107,352  0  107,352  0  107,352  0  107,352  3,057,425	30 33,265 0 0 33,265 0 0 33,265 6,774,118 26,694 41,036 0 669,356 0 737,086 0 0 737,086 35,831,808 52,710 0 0 314,194 366,904 0 0 366,904 3,424,329 22,611 0 0 0 22,611 29,135,253 25,033 25,033 25,033	31  19,131 0 0 19,131 0 0 19,131 0 0 19,131 6,793,249  0 0 0 30,000 30,000 0 0 30,000 0 0 0 0	30  19,313 0 0 19,313 0 0 19,313 6,812,562 0 0 0 30,000 30,000 0 30,000 35,891,808 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31  19,131  0  0  19,131  0  19,131  0  19,131  6,831,693  0  0  0  30,000  30,000  30,000  0  0  0  0  0  0  0  0  0  0  0	327,114 0 0 0 327,114 0 0 0 327,114 0 0 182,846 281,082 0 4,059,356 240,000 4,763,284 0 0 4,763,284 - 367,144 0 0 0 314,194 681,338 0 0 681,338 - 154,880 2,955,472 3,110,352 0 0 3,110,352 - 171,470
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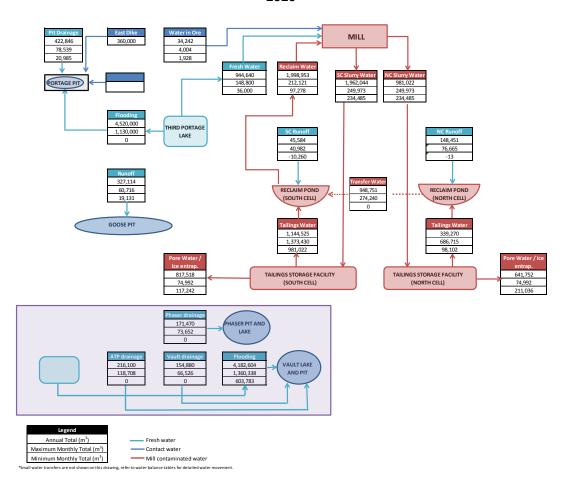
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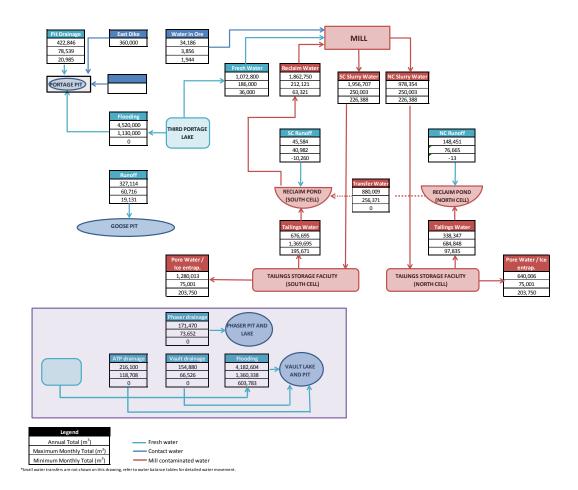
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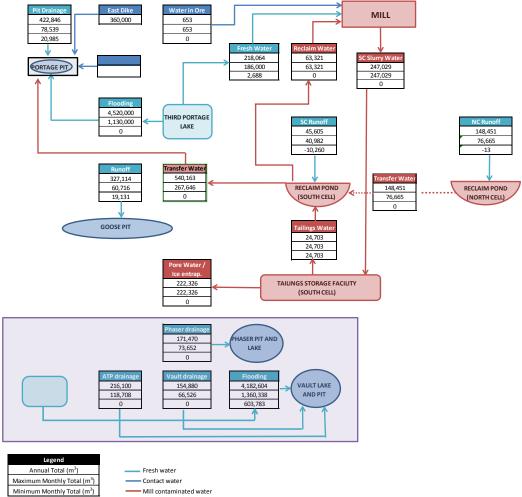
#### **APPENDIX E – FLOW CHARTS**



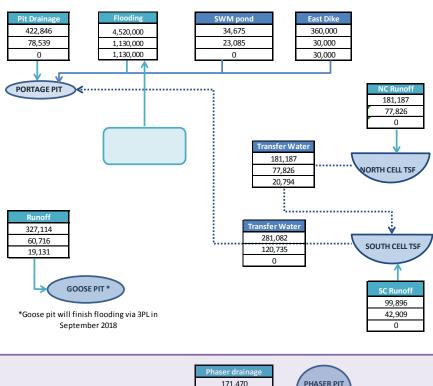


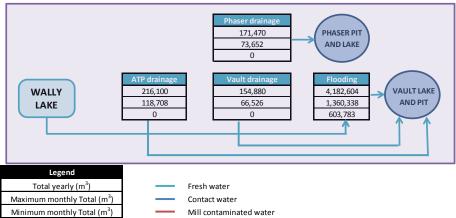






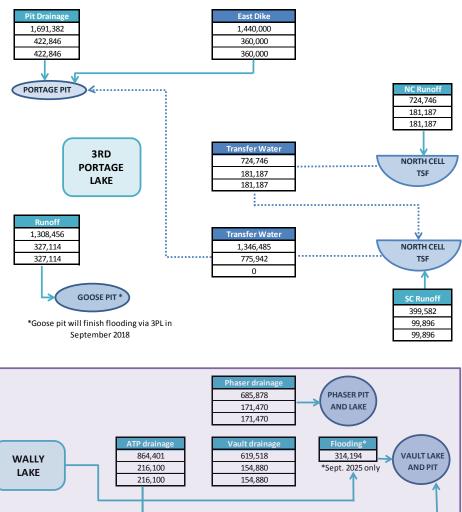
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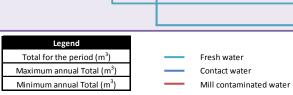




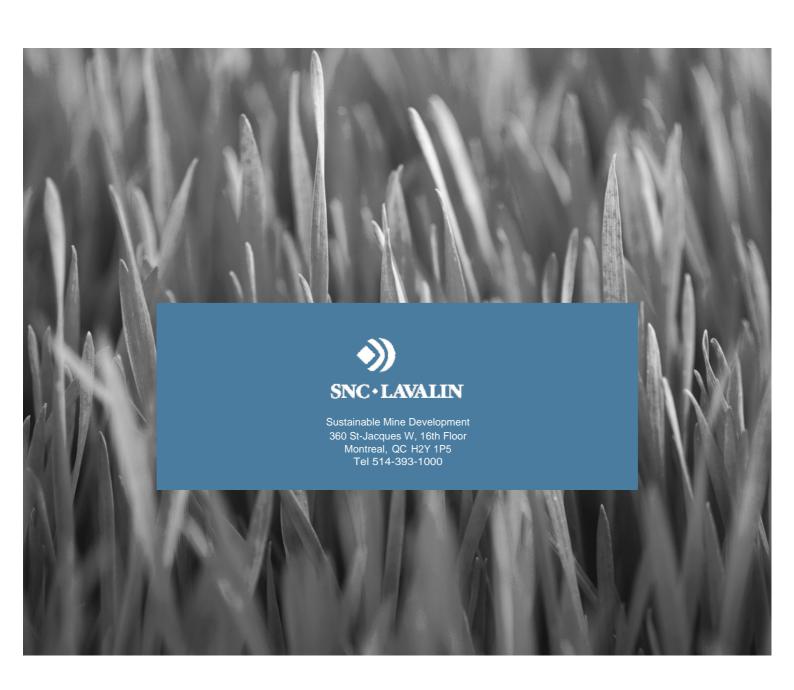
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#### 2025-2028





# APPENDIX F • TAILINGS STORAGE FACILITY EXPANSION PROJECT PHASE 1- WATER QUALITY ASSESSMENT





#### SNC-LAVALIN INC.

1140 De Maisonneuve West Blvd Montreal, QC Canada H3A 1M8 Tel: (514) 393-1000 Fax: (514) 390-2765

Montreal, March 11th, 2016

Mr. Michel Groleau
Agnico Eagle Mines Limited
Meadowbank Division
Baker Lake, Nunavut, Canada
X0C 0A0

Subject: Tailings Storage Facility Expansion Project Phase 1 - Water Quality Assessment

Technical Report

Our file: 630707-0000-40ER-0001-01

Dear Mr. Groleau,

We are pleased to submit the revision 01 of the report mentioned above.

Do not hesitate to communicate with the undersigned should you have further questions regarding the content of this report.

Regards,

SNC LAVALIN INC.

Anh-Long Nguyen, Eng. Project Manager Sustaining Capital Works

Mining and Metallurgy

Genevieve Beaudoin-Lebeuf, Eng. Water Treatment Specialist Sustaining Capital Works Mining and Metallurgy

XX/xx



#### **LIST OF REVISIONS**

Revi	Revision			Revised	Remarks	
#	Prep.	Арр.	Date	pages	Remarks	
PA	GBL	ALN	2015-12-14	All	For internal review	
РВ	GBL	ALN	2015-12-15	All	For Client review	
00	GBL	ALN	2015-12-22	All	For Client review	
01	GBL	ALN	2016-03-11	All	For use	

#### **NOTICE TO READER**

This document contains the expression of the professional opinion of SNC-Lavalin Inc. ("SNC-Lavalin") as to the matters set out herein, using its professional judgment and reasonable care. It is to be read in the context of the agreement dated June 19, 2015 (the "Agreement") between SNC-Lavalin and Agnico Eagle Mine (the "Client") and the methodology, procedures and techniques used, SNC-Lavalin's assumptions, and the circumstances and constraints under which its mandate was performed. This document is written solely for the purpose stated in the Agreement, and for the sole and exclusive benefit of the Client, whose remedies are limited to those set out in the Agreement. This document is meant to be read as a whole, and sections or parts thereof should thus not be read or relied upon out of context.

SNC-Lavalin has, in preparing estimates, as the case may be, followed accepted methodology and procedures, and exercised due care consistent with the intended level of accuracy, using its professional judgment and reasonable care, and is thus of the opinion that there is a high probability that actual values will be consistent with the estimate(s). Unless expressly stated otherwise, assumptions, data and information supplied by, or gathered from other sources (including the Client, other consultants, testing laboratories and equipment suppliers, etc.) upon which SNC-Lavalin's opinion as set out herein are based have not been verified by SNC-Lavalin; SNC-Lavalin makes no representation as to its accuracy and disclaims all liability with respect thereto.

To the extent permitted by law, SNC-Lavalin disclaims any liability to the Client and to third parties in respect of the publication, reference, quoting, or distribution of this report or any of its contents to and reliance thereon by any third party.

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#### 1.0 INTRODUCTION

#### 1.1 Context

Agnico Eagle Mines Limited, Meadowbank Division (AEM) is proposing to develop Whale Tail Pit, a satellite deposit on the Amaruq property, as a continuation of mine operations and milling at the Meadowbank Mine. The Amaruq Exploration property is a 408 km² site located on Inuit Owned Land, approximately 150 km north of the Hamlet of Baker Lake and approximately 50 km northwest of the Meadowbank Mine in the Kivalliq region of Nunavut.

AEM is looking to extend the life of the mine by constructing and operating Whale Tail Pit and processing the ore at the Meadowbank Mine Site. The additional tailings generated from the Whale Tail Pit operation will be deposited in the existing TSF (North Cell and South Cell).

#### 1.2 Mandate

SNC-Lavalin (SLI) was mandated by AEM to perform a preliminary assessment of the water quality forecast in the Goose and Portage pits at closure based on the water balance developed by AEM that incorporates the additional tailings from Whale Tail Pit deposited in the existing TSF (North and South Cells).

## 1.3 Study Objectives

The objectives of this report are the following:

- Review the water qualities and water balance models provided by AEM;
- Update the water quality forecasting model accordingly;
- ☐ Analyze the results for the parameters of concern supported by graphs prepared by SLI;
- Review the results at closure with the use of geochemical tools like the software program PHREEQC (USGS 2013);
- ☐ Identify different treatment options that could be implemented depending on the water quality
- Produce a Technical Report presenting findings and our interpretation.

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## 2.0 WATER MANAGEMENT PLAN STUDIED

AEM developed a tailings deposition plan to manage the additional tailings from Whale Tail Pit within the existing North and South Cell Tailings Storage Facility (TSF). As part of this study, AEM developed a water management plan (WMP) that incorporates the Whale Tail Pit development project. Table 2-1 summarizes the preliminary schedule used for the WMP that incorporates the Whale Tail Pit development project.

Table 2-1: Schedule of Water Management Phases for the TSFE Phase 1 Project

TSFE PHASE 1 – WHALE TAIL PIT			
ACTIVITY <sup>1</sup>	Start Date	End Date	
Pits Mining and Processing at Mill			
Portage Pit	Jan.2010	Sept. 2018	
Pit A (North)	Jan. 2010	Sept. 2018	
Pit B, C, D (Central)	Jan. 2010	Apr. 2013	
Pit E (South)	Jan. 2010	July 2016	
Goose	Apr. 2012	Oct. 2015	
Vault	Jan. 2014	Sept. 2018	
Phaser (including potentially BB Phaser)	July 2017	Sept. 2018	
Whale Tail	July 2019	Jan. 2022	
Tailings Storage Facility Operations			
North Cell TSF	Jan. 2010	Oct. 2015	
North Cell TSF with Whale Tail Tailings	July 2019	Sept. 2021	
South Cell TSF	Dec. 2014	Sept. 2018	
South Cell TSF with Whale Tail Tailings	Oct. 2019	Jan. 2022	
Rock Storage Facility			
Portage RSF	Jan. 2009	March 2023	
Vault RSF	Jan. 2014	Oct. 2018	

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<sup>&</sup>lt;sup>1</sup> Periods are given from the beginning of the starting month to the end of the ending month.



		9000 TPD FROM (Nov. 2015 Model)
ACTIVITY <sup>1</sup>	Start Date	End Date
Attenuation/Reclaim Ponds Water Management		
Attenuation Pond (South Cell) <sup>2</sup>	Jan. 2009	Nov. 2014
Attenuation Pond (Vault Lake)	July 2014	Sept. 2018
Other Activities		
Dewatering of Vault	June 2013	June 2014
Dewatering of Phaser Lake	Sept. 2016	Oct. 2016
Flooding of Portage Pit with 3PL water	Jun. 2019	Sep. 2025
Flooding of Goose Island Pit with 3PL water	Jun. 2018	Aug. 2018
Flooding of Vault Pit	Mar. 2018	Oct. 2023
Flooding of Phaser Pit	June 2018	Oct. 2023
Flooding Period Completed	NA	Dec. 2028
Breaching of dykes	2029, only if water	er criteria are met

<sup>&</sup>lt;sup>2</sup> After Nov. 2014, the Reclaim Pond is relocated in the South Cell TSF and the Attenuation Pond is combined with the Reclaim Pond. After this date, there is no Attenuation Pond.

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### 3.0 WATER QUALITY ASSESSMENT

## 3.1 Mass Balance Model

#### 3.1.1 Description

The updated water quality mass balance model used during this study was developed to help forecast trends in water quality in the Portage Area of Meadowbank for different parameters of interest from September 2014 to mine closure in 2029. The model forecasts the approximate concentrations in the North and South Cells and in the pits on a monthly time step, until 2029. This model was initially developed for the "Water Quality Forecast for 2012-2025" study in March 2012 based on the water balance, and is updated once a year using the updated water balance developed by AEM. It was updated for the last time in January 2015 for the following mandate: "Meadowbank Water Quality Forecasting Update Based on the 2014 Water Management Plan".

The water quality forecast model has the following characteristics:

The model uses a flow and mass balance approach to forecast the concentration of d	lifferent
parameters in the water column;	

- ☐ The model uses the monthly Reclaim Ponds surface areas defined by the deposition and closure plan;
- □ Dissolved concentration values are used in the model. The model assumes that the solid fraction in the water column will filter out in the tailings and/or settle out in the TSF;
- Conservation of mass is assumed for all parameters except for cyanide;
- Cyanide volatilization in the summer months is modeled;
- The main contaminant load reporting to the TSF Reclaim Ponds is from the mill effluent.

The forecasting of dissolved metals, nitrate and cyanide concentrations in the North and South Cell TSF Reclaim Ponds is based on a mass balance around the ponds performed on a monthly basis. The initial concentration in the Reclaim Ponds is based on the value forecasted in the previous month. The concentration of contaminant in the mill effluent is assumed to be constant from month to month, considering that the tailing water undergoes a cyanide destruction step that operates at an alkaline pH. Under such treatment conditions, the total cyanide concentration will be reduced and any dissolved metals present will precipitate out of solution as a metal hydroxide. For simplification purposes, the nitrate concentration in the mill effluent is assumed to be constant. Figure 3-1 schematically summarizes the mass balance approach used to forecast these parameters in the TSF Reclaim Ponds.

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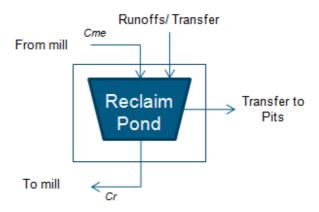


Figure 3-1: Mass balance for dissolved metals, nitrate and cyanide

For the forecasting of sulphates, chlorides and ammonia concentrations in the TSF Reclaim Ponds, the assessment considers a water/mass balance on a monthly basis around the mill and the Reclaim Ponds. Based on existing water quality data, these parameters have been shown to accumulate over time in the TSF Reclaim Ponds since they are not removed at the cyanide destruction step. Sulphate is generated from the oxidation of the sulfide present in the ore, while ammonia is generated from the hydrolysis of cyanate (i.e. end product of the cyanide destruction system). Chlorides are present in the salt added seasonally for deicing. The contaminant load for these parameters is added to the mill effluent on a monthly basis and accumulates over time. For simplification purposes, no nitrification of ammonia is assumed to occur in the TSF Reclaim Ponds during the summer months. Figure 3-2 schematically summarizes the mass balance approach used to forecast these parameters.

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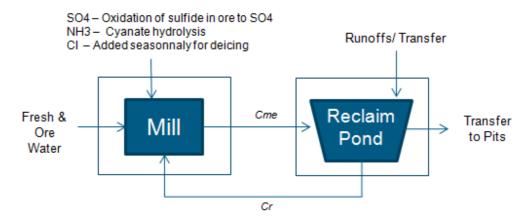


Figure 3-2: Mass balance for sulphate, chlorides and ammonia

#### 3.1.2 Assumptions

In addition to the assumptions presented in Section 3.1.1, the following assumptions were used in the development of the mass balance model of Meadowbank:

- In order to simplify the model, the North and South Cell TSF Reclaim Ponds and the Portage and Goose pits are assumed to be completely mixed systems;
- ☐ The tailings in the TSF are assumed not to undergo significant amounts of sulphide oxidation. Refer to Section 3.1.4 for further discussion on this topic;
- ☐ The pH in the TSF Reclaim Ponds is, on average, 8 during the summer months, and, on average, 7.9 for the first half of the year (January to July 2014).
- In order to simplify the mass balance model, the parameters of interest are assumed to be inert: they do not degrade or react with other elements in the system, with the exception of cyanide.
- Cyanide:

For cyanide, it is assumed that the mill effluent meets AEM's CN-WAD operational target of 16.3 mg/L at all times, based on the latest mill effluent sample.

The total cyanide in the TSF Reclaim Ponds is comprised of free cyanide and metal-cyanide complexes (weak and strong metal cyanide complexes). As per discussions with AEM, most of the iron- and metal-cyanide complexes are precipitated in the mill. However, since the reaction is not complete or perfect, some dissolved iron- and metal-cyanide complexes are expected to remain in the mill effluent. Therefore it was assumed that 10% of the total

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cyanide concentration was bound as strong iron-cyanide complexes, and that another 10% of the total cyanide concentration was present as weak metal-cyanide complexes (cyanide bound with copper, zinc, and nickel). The remainder is present as free cyanide (i.e. HCN and CN<sup>-</sup>). This agrees with values observed at other gold mine tailings sites (Simovic, 1984). These same proportions are assumed to apply to cyanide at the mill effluent.

For this model, natural cyanide degradation is only considered for the summer months.

☐ For this analysis, it is assumed that no treatment will take place at the North and South Cell TSF Reclaim Ponds, nor at the Portage and Goose pits.

## 3.1.3 Updates and Modifications to the Model

The following updates and modifications were carried out on the water quality forecast model in order to properly represent the particularities of the new closure scenario studied in this mandate:

- ☐ The water balance model dated November 2015 by AEM was entered into the water quality model. This water balance model incorporates the Whale Tail tailings deposition.
- The model was updated to forecast the following parameters in order to better evaluate and confirm if any of them could become a parameter of concern at closure. The underlined parameters are currently the parameters of concern and their forecasted trends will be presented in graphs:

Physico-Chemical Parameters:

- Alkalinity
- Hardness
- Total dissolved solids

#### Cations:

- Aluminium (Al)
- Silver (Ag)
- Arsenic (As)
- Barium (Ba)
- Cadmium (Cd)
- Chrome (Cr)
- Manganese (Mn)
- Mercury (Hg)

- Molybdenum (Mo)
- Nickel (Ni)
- Lead (Pb)
- Selenium (Se)
- Zinc (Zn)
- Copper (Cu)
- Ammonia (NH<sub>3</sub>)
- <u>Iron (Fe)</u>

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#### Anions:

- Fluoride (F)
- Sulphate (SO<sub>4</sub>)
- Cyanide (CN)
- Nitrate (NO<sub>3</sub>)
- Chloride (CI)
- ☐ The water balance model takes into consideration the mining of Whale Tail Pit from 2020 to 2023.
- The water balance model also reflects the Downstream Pond water transfer to Goose Pit that occurred in 2015.

## 3.1.4 Tailings

For Meadowbank mining and milling, the assumption that the tailings originating from the Portage, Goose and Vault pits will not undergo significant amounts of sulphide oxidation has been based on the observation that iron staining is absent from tailings materials in the North Cell TSF which suggests minimal oxidation of the sulphide content of the tailings. This may be as a result of the water saturated conditions that prevail throughout the year in the North Cell TSF. Moreover, since tailings are frozen almost all year round, this suggests that little oxidation would be expected to occur. AEM has conducted both a laboratory based SFE Leach test and SPLP1312 leach test on a representative tailings sample from the Portage/Goose/Vault pits. However, as these tests are not representative of the leachable fraction upon oxidation of the sulphide content of the tailings in field conditions, an overview of a suitable field based program has been provided in Section 6.2.

AEM has also conducted some testing on a single ore sample from the Whale Tail Pit, including an SFE Leach test. Preliminary results indicate that the tailings from Whale Tail Pit could leach slightly higher concentrations of arsenic, copper and nickel than the tailings from Portage, Goose and Vault pits, and higher concentrations of chromium.

SFE leach test results obtained from Portage/Goose/Vault tailings and Whale Tail tailings were integrated into the water quality forecast model to account for possible loading from the leaching of the tailings deposited in the TSF for that month.

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#### 3.1.5 Limitations

The limitations of the Meadowbank water quality mass balance model and ensuing results and conclusions presented in this Technical Note are listed below:

- In order to simplify the model, the mass balance model assumes that the pond and pits are completely mixed systems. However, the results from this model provide only an indication of the concentrations in the ponds and pits and these should not be considered as absolute values at this time. Future monitoring of flows and water quality would need to be undertaken to validate this assumption.
- ☐ The mass balance model is based on the water quality analysis results provided by AEM:

Water quality data provided for ST-21 is taken from samples collected at the surface of the North Cell TSF Reclaim Pond. Therefore the concentrations provided by AEM for ST-21 may not be representative of the entire TSF Reclaim Ponds water quality.

The water quality data used to assess the future mill effluent while processing the Whale Tail Pit ore is based on a sample from a batch  $SO_2$ /air cyanide destruction bench scale test performed on a single ore sample from the area. This water sample may not be representative of the actual future water quality when the Whale Tail Pit will be in operation.

- ☐ The model does not make allowances for the impact that changes in the TSF (surface area, volume, tailings characteristics, etc.) will have on the TSF Reclaim Ponds water quality over time.
- It should be noted that at this point, given the limitations, assumptions and limited data currently available, the model should only be used as a preliminary means to evaluate the impact of the mill effluent on the future water quality in the North and South Cell TSF Reclaim Ponds and Portage and Goose pits.

#### 3.1.6 Input parameters

For this study, the water quality forecasting mass balance model was updated based on the following input data:

- ☐ Flows and volumes provided in the water balance developed by AEM, dated November 2015 with a production rate of 9000 tonnes of ore/day from the Whale Tail Pit;
- Assumptions presented below in Section 3.1.2;
- Water analyses for ST-21 (North Cell TSF Reclaim Pond) (sample taken on January 8<sup>th</sup>, 2015);
- Water analyses for ST-18 (South Cell TSF Attenuation Pond) (Average of 2011-2014);

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	Water analyses for Third Portage Lake (Average of East Basin in Summer 2015);
	Water analyses for the mill effluent (sample taken on October 15 <sup>th</sup> , 2015);
	Water analyses for the future mill effluent when Whale Tail Pit will be in operation (pilot test on March $30^{th}$ , 2015);
	Water analyses for ST-19 (Portage Pit) (Average of 2015);
	Water analysis for ST-20 (Goose Pit) (sample taken on August 9 <sup>th</sup> , 2015).
3.1	.6.1 Input Concentrations

Table 3-1 presents the input concentrations considered for the water quality forecast model for the Mill, Third Portage Lake, South Cell, North Cell, Goose Pit and Portage Pit. The concentrations are highlighted in red when they are above the CCME guidelines highlighted in green.

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Table 3-1: Input Concentrations Selected for the Mass Balance Model

Parameters	Units	MILL EFFLUENT	FUTUR MILL EFFLUENT (w/ Whale Tail)	RECLAIM ST-21 NORTH CELL	THIRD PORTAGE LAKE	RECLAIM SOUTH CELL ST-18	PORTAGE PIT ST-18	GOOSE PIT ST-20	CCME Guidelines
Basis of c	data used for model:	Sample taken in Oct. 15, 2015	Sample taken Mar 30, 2015 (Pilot test)	January 8, 2014	Average- East Basin Summer 2015	Avg 2011 à 2014	Average 2015	August 09, 2015	
Alkalinity	mg CaCO <sub>3</sub> /L	45	135	135	9.100	115.565	67.875	75	n/a
Hardness	mg CaCO <sub>3</sub> /L	2030	2030	1329	12	264.350	175.00	104.0000	n/a
Dissolved Aluminium (Al)	mg/L	0.043	0.54	0.072	0.0018	0.0097	0.0030	0.0030	0.1
Dissolved Silver (Ag)	mg/L	0.00161	0.000496	0.0001	0.000005	0.0023	0.00005	0	0.0001
Dissolved Arsenic (As)	mg/L	0.0493	0.33	0.021	0.0005	0.0035	0.0182	0.0003	0.005
Dissolved Barium (Ba)	mg/L	0.09	0.0851	0.0838	0.0037	0.0972	0.0101	0.0163	n/a
Dissolved Cadmium (Cd)	mg/L	4.59E-04	4.90E-05	1.34E-03	2.50E-06	2.13E-03	1.00E-05	1.00E-05	4.00E-05
Dissolved Chromium (VI)	mg/L	9.00E-05	1.17E-02	0	0.0001	0.0000	0	0.0003	1.00E-03
Dissolved Copper (Cu)	mg/L	5.28	5.28	9.053	0.0005	0.0042	0.0005	0.0003	0.002
Dissolved Iron (Fe)	mg/L	1.74	2.73	0.03	0.010	0.024	0.0063	0.0100	0.3
Dissolved Manganese (Mn)	mg/L	0.0116	0.186	0.0595	0.002	1.871	0.0814	0.0058	n/a
Dissolved Mercury (Hg)	mg/L	0.00005	0.000005	0.0002	0.000003	0.0002	0.00001	0.0001	0.000026
Dissolved Molybdenum (Mo)	mg/L	1.14	0.128	0.5826	0.0002	0.022	0.0405	0.0148	0.073
Dissolved Nickel (Ni)	mg/L	0.0894	0.0559	0.2525	0.001	0.018	0.020	0.009	0.025
Dissolved Lead (Pb)	mg/L	0.00061	0.0114	0.0016	0.00005	0.0023	0.00019	0.0002	0.001
Dissolved Selenium (Se)	mg/L	0.285	0.01	0.072	0.0001	0.002	0.0013	0.0005	0.001
Dissolved Zinc	mg/L	0.001	0.004	0.001	0.001	0.007	0.001	0.001	0.03
Ammonia (NH <sub>3</sub> )	mg N/L	+ 30/mth	+ 50/mth	36.8	0.019	6.884	2.569	0.570	0.855296
Chloride	mg/L	North Cell: Winter:+2K/mth Summer: +1K/mth South Cell: Winter: +700/mth Summer: +350/mth	Winter:+2K/mth Summer: +1K/mth	1035	0.79	43.1450	12.6250	13.7000	120
Fluoride (F)	mg/L	0.39	0.17	0.180	0.079	0.547	0.2400	0.5500	0.12
Nitrate (NO <sub>3</sub> )	mg N/L	22.8	6.05	25.500	0.033	8.293	9.0050	4.1100	2.94
Total Cyanide (CNt)	mg/L	16.3	16.3	8.330	0.0010	0.1738	0	0.0050	0.005
Sulphate (SO4)	mg SO4/L	+ 1100/mth	+ 3520/mth	2115.0000	5.1000	277.0750	120.1500	45.8000	n/a
Total dissolved solids	mg/L	North Cell: Winter:+4.4K/mth Summer: +2.8K/mth South Cell: Winter: +2.3Kmth Summer: +1.7K/mth	Winter:+6.9K/mth Summer: +5.3K/mth	1329	22.1250	739	400.875	217	n/a

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A couple of items to note on the parameters used for the updated water quality forecast model in this study:

- □ To evaluate the concentration of ammonia that may be added to the TSF Reclaim Ponds on a monthly basis, the difference in concentration of CN-WAD before and after the cyanide destruction system was evaluated. CN-WAD was removed and converted to cyanate (CNO-). Assuming that 100% of the cyanate is hydrolyzed to ammonia (NH<sub>3</sub>), it was evaluated that on average, approximately 30 mg N/L of ammonia was added to the mill effluent for Meadowbank exploitation, and 50 mg N/L of ammonia for the mining of Whale Tail Pit. For the purpose of the model, it is assumed that these concentrations of ammonia are added to the mill effluent every month. This additional ammonia load is added to the load already present in the reclaim water. The same concentration is added in the South Cell and North Cell.
- Based on the measured data, the chloride concentration continues to increase in the mill effluent. To account for this trend, it is assumed that 2,000 mg/L of chloride is added to the mill effluent every year during the "winter" months (October until May) and 1,000 mg/L every year during the "summer" months (June to September) in the North Cell, for operations at Meadowbank and Whale Tail Pit. For the South Cell, during Meadowbank operations, a concentration of 700 mg/L of chloride is added during the "winter" months and 350 mg/L during the "summer" months. For mining of Whale Tail Pit, the values are the same as for the North Cell. This additional chloride load is added to the load already present in the reclaim water. This value was evaluated by adjusting the model to fit with the measured chloride values in the Reclaim Ponds in 2014 and 2015.
- □ The sulphates are also accumulating in the mill effluent based on the measured data. After evaluating by adjusting the model to fit with the measured sulphate values, a concentration of 1,100 mg/L is assumed to be added to the mill effluent during Meadowbank exploitation and a concentration of 3,520 mg/L during mining of Whale Tail Pit. These values are the same for the North and South Cells.
- □ Table 3-2 summarizes the actual mill effluent water quality data and the bench scale test data obtained using Whale Tail ore. When comparing the mill effluent water quality data to the bench scale test data using Whale Tail ore, aside from sulphate concentration, the Whale Tail Pit concentrations for the different parameters are lower for the Whale Tail ore compared to the actual mill effluent values. Lower concentrations for parameters of concern in the Whale Tail mill effluent could lead to optimistic concentration values at closure. For this reason, it is assumed that the copper and cyanide concentrations are similar to the concentrations currently observed in the mill effluent.

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**Table 3-2: Input Concentrations Selected for the Mass Balance Model** 

PARAMETERS (mg/L)	Mill Effluent Sample Oct. 11, 12	Mill Effluent Sample Jan. 29, 14	Mill Effluent Sample Oct, 26, 14	Mill Effluent Sample Oct. 15, 15	Whale Tail Batch CN Detox Test March 2015
Total Cyanide	10.13	18.80	111	16.3	2.02
Dissolved Copper	7.07	7.8	6.795	5.28	0.0243
Dissolved Iron	0.83	0.8	0.14	1.74	2.73
Chloride	1375	2129	2199	1200	17
Sulphate	2683	2565	2400	2500	8000
Selenium	0.025	0.19	0.154	0.269	0.01

## 3.2 Water Quality Forecast Results

With the help of the water quality forecast mass balance model, the concentrations of parameters were forecasted in the Portage and Goose pits until December 2029, after the mine closure. December 2029 is the last month in the AEM water balance model.

Table 3-3 summarizes the forecasted concentrations and compares the values against the Canadian Council of Ministers of Environment (CCME) guidelines for the Protection of Aquatic Life, right before the breaching in December 2028. Any values in red indicate a concentration that is higher than the CCME recommended guideline.

Figures showing the changes in the concentrations of various parameters (cyanide, copper, iron, chromium, ammonia, nitrate, selenium, sulphate and chloride) in the North and South Cells TSF Reclaim Ponds and in the Portage and Goose pits can be found in Appendix A of this report.

The forecasted concentrations in the graphs are also compared with CCME guidelines, as well as the Water License limit and the Third Portage Lake 2015 water quality. Since there are no binding limits, the matter was discussed with AEM, and it was decided again that the CCME guidelines were the most suited guidelines for this project.

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Table 3-3: Forecasted Concentration in the Portage and Goose pits at Closure (December 2028)

			Scenario A				
PARAMETERS	UNITS	CCME GUIDELINES	PORTAGE PIT	GOOSE PIT	ASSUME COMPLETE MIXING OF BOTH PITS		
Alkalinity	mg CaCO₃/L	n/a	10.0	9.6			
Hardness	mg CaCO₃/L	n/a	24.3	22.5			
Total dissolved solids	mg/L	n/a	62.3	44.0			
Aluminium (Al)	mg/L	0.1	0.004	0.003			
Silver (Ag)	mg/L	0.0001	0.00001	0.00002			
Arsenic (As)	mg/L	0.005	0.002	0.001			
Barium (Ba)	mg/L	n/a	0.004	0.004			
Cadmium (Cd)	mg/L	0.00004	0.00001	0.00001			
Chromium (VI)	mg/L	0.001	0.003	0.00005	0.002		
Copper (Cu)	mg/L	0.002	0.018	0.024	0.019		
Iron (Fe)	mg/L	0.3	0.036	0.019			
Manganese (Mn)	mg/L	n/a	0.003	0.003			
Mercury (Hg)	mg/L	0.000026	0.000003	0.000003			
Molybdenum (Mo)	mg/L	0.073	0.002	0.006			
Nickel (Ni)	mg/L	0.025	0.0008	0.0010			
Lead (Pb)	mg/L	0.001	0.00009	0.00005			
Selenium (Se)	mg/L	0.001	0.0001	0.0014	0.0003		
Zinc	mg/L	0.03	0.001	0.001			
Ammonia (NH <sub>3</sub> ) (ionized)	mg N/L	0.86	0.45	0.33			
Chloride	mg/L	120	10.5	7.4			
Fluoride (F)	mg/L	0.12	0.08	0.08			
Nitrate (NO <sub>3</sub> )	mg N/L	2.94	0.08	0.15			
Sulphate (SO4)	mg SO4/L	n/a	47.0	19.0			
Total Cyanide (CNt)	mg/L	0.000005	0.000004	0.000			

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## 3.3 Discussions

#### 3.3.1 Forecasted Concentrations

The parameters with higher forecasted concentrations than the CCME guidelines are copper for both pits, chromium (VI) for Portage Pit and selenium for Goose Pit. The forecasted concentration for selenium in Goose Pit is very close to the CCME guidelines. The forecasted concentration for chromium in Portage Pit is very close to the CCME guideline. Forecasted copper concentrations however are high relative to the CCME guidelines.

The Portage and Goose pits will become hydraulically linked once the water level in both pits reaches 131 masl. Based on the lake data available and assumptions made in the original water quality modelling, the assumption is that both pits are well mixed. Complete mixing of both pits was assumed for those parameters and the model was updated to take this into account. The new concentrations are shown in a third column for each scenario. When the complete mixing of pits is considered, copper and chromium (VI) concentrations still do not meeting the guidelines, but the selenium concentration does. These values provide an indication of the possible attenuation, but this needs to be confirmed with further modeling and monitoring.

Furthermore, in 2015, water from the South Cell TSF Reclaim Pond was flowing through the Central Dike and accumulating in the downstream basin. The Downstream Dike water was pumped back to the South Cell TSF Reclaim Pond. This excess water was eventually transferred in 2015 to Goose Pit. This caused an increase in the load of most parameters in this pit, as seen in the graphs presented in the Appendix A. Given there were very few exceedances in Goose Pit, the impacts on the water quality at closure are not major for now, but they should be analyzed if other transfers are planned.

#### 3.3.2 Actual Concentrations vs Forecasted Concentrations in the North and South Cells

In the figures in Appendix A, measured concentrations taken in the North and South Cells TSF Reclaim Ponds in 2014 and 2015 are plotted against the forecasted concentrations in order to assess the accuracy of the model.

Based on this comparison, the following observations can be made:

- In general, the forecasted concentrations follow the same trend as the actual measure concentration.
- There have been some unforecasted peak copper concentrations, which match peaks in cyanide concentrations measured in the North Cell during the summer of 2015. This could be due to an operational issue with the cyanide destruction system. The operating pH could be too low, leading to higher cyanide concentrations and lower copper hydroxide precipitation. Besides these peaks, the copper actual concentrations vary many times between 0 and 10 mg/L, but stays within the range of the forecasted concentrations. However, South Cell's actual and forecasted concentrations trends are

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comparable. For cyanide, both South Cell and North Cell's forecasted trends are lower than the measured concentrations.

- For iron, both forecasted trends are slightly higher than the actual concentrations, and are more pronounced in the North Cell. This suggests that most of the iron is present as a particulate that settles out readily in the TSF.
- The nitrate measured concentrations in the North Cell vary often between 5 and 65 mg/L while the forecasted concentrations stays within the range of 10 to 55 mg/L within the same period. For the South Cell, the actual trends are a bit lower than the forecasted concentrations.
- For both the South and North Cells, the selenium measured concentration trends are slightly lower than the forecasted concentrations.
- The measured and forecasted concentrations for sulphate are similar.
- The forecasted chloride concentration in South Cell TSF Reclaim Pond matches the measured concentrations. For the North Cell, forecasted and actual concentrations are in the same range, but the actual measured values vary a lot more.
- For ammonia, forecasted and measured concentration trends for both the North and South Cells are somewhat similar.
- The total dissolved solids forecasted concentration trends are similar to the measured trends in both North Cell and South Cell.

For the 2015 Meadowbank Water Quality Forecast Update, the model will be adjusted for iron, chlorides, selenium and cyanide in order to better reflect the measured values taken in the North and South Cells.

#### 3.3.3 General Comments

The model used to forecast these concentrations is based on performing a mass balance only around the North and South Cell TSF ponds and the Portage and Goose pits. It does not take into account any geochemical reactions that could help precipitate or co-precipitate some elements, thus further reducing the concentration of certain parameters in the water column. Consequently, the results of the forecast model presented in this section can be considered conservative, since it assumes no loss of load from month to month.

In the following section of the report, the impact of geochemical reactions on equilibrium concentrations in the water column will be evaluated and discussed.

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## 4.0 GEOCHEMICAL MODELLING

#### 4.1 General

The following section presents the results from the geochemical modelling done using the forecasted water quality model results presented in Section 3.0.

The purpose of this exercise is to determine resulting bio-available concentrations of contaminants in the water column once total suspended solids have settled and chemical equilibrium is reached (i.e. account for processes such as mixing, gas phase equilibrium, adsorption and mineral precipitation that are likely to affect liable concentrations of metals, metalloids and sulphate).

## 4.2 Methodology

The USGS geochemical modelling tool PHREEQC (USGS 2015) was used to evaluate the equilibrium concentration in the water column for two periods: (1) in the North and South Cell TSF Reclaim Ponds at the end of September 2018 and (2) at closure in the Portage and Goose pits in December 2028. The inputs to the model were the forecasted concentrations evaluated using the forecasted water quality mass balance model discussed in Section 3.

## 4.3 Assumptions

The following assumptions were made when developing the geochemical model using the PHREEQC modeling tool:

- The concentrations used in the model are dissolved concentrations.
- ☐ The results obtained under equilibrium conditions assume that all of the total suspended solids have settled out of the water column.
- □ The tailings are assumed to be non-reactive in terms of oxidation of sulphide content, which is likely as long as there is a sufficiently deep water cover that is maintained over the tailings. As previously mentioned in Section 3.1.4, anecdotal information suggests the absence of iron staining of tailings materials in the North Cell TSF which infers that current oxidation of the sulphide content of the tailings is minimal.
- The Goose and Portage pits are assumed to be completely mixed systems.
- □ Input ammonia and nitrate are considered collectively as nitrate for the purpose of tracking total nitrogen as there is insufficient information to describe nitrification and denitrification pathways in these water bodies.
- Adsorption processes are limited to those associated with amorphous phase ferrihydrite.
- Gas phase equilibrium is limited to oxygen and carbon dioxide.

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Precipitating minerals are limited to those that would reach a positive saturation index.

## 4.4 Results

Table 4-1 presents the concentrations established by the water quality forecast modeling tool used as an input to the geochemical model and the forecasted equilibrium concentrations evaluated using the PHREEQC modeling tool after the end of Meadowbank operations in September 2018 in North and South Cells, and in Goose and Portage pits at closure in December 2028. The results are compared against the following:

- CCME guidelines for the Protection of Aquatic Life for all parameters other than total nitrogen.
- Total nitrogen has been compared with the threshold concentration for classification of an Oligotrophic lake in terms of nutrient concentrations (Nurnberg 1996). The basis of the use of this threshold concentration is that the various lake systems that surround the mine are considered Oligotrophic (Azimuth. 2015).

Any values highlighted in bright red indicate an equilibrium concentration at closure that is higher than the adopted guideline value, while a pale red value indicates a concentration forecasted by the water quality mass balance model that is higher than the adopted guideline value at closure.

The light gray and red font cells highlight parameters that exceed the CCME guidelines based on the forecasted concentration evaluated at the end of September 2018 (i.e. period before the beginning of Whale Tail Pit operation), while the dark grey cells for that same period indicate parameters where the equilibrium concentrations are higher than the CCME guidelines.

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Table 4-1: Forecasted Equilibrium Concentrations (Eq. Conc.) in the North and South Cells and Portage and Goose pits

				AT END SEPT. 2018						AT CLC	OSURE, BEFORE	BREACHING DEC. 2	028		
		ССМЕ	3rd PORTAGE LAKE	NO	RTH CELL	SOUTI	H CELL	MIXE	D PITS	PORT	AGE PIT	GOO	OSE PIT	MIXE	D PITS
PARAMETERS	UNITS	GUIDELINES	(avg. Summer 2015)	Mass Balance Conc.	PHREEQC Eq. Conc.	Mass Balance Conc.	PHREEQC Eq. Conc.								
рН				8.5	7.61	8.5	7.84	8.5	7.80	7.5	7.57	7.5	7.57	7.50	7.57
Alkalinity	mg CaCO₃/L	n/a	9.1	11	12	69	81	59.7	69.93	10	24	10	9	9.68	11.54
Hardness	mg CaCO₃/L	n/a	12	233	232	1546	1517	1335.8	1310.83	25	25	22	22	22.85	22.51
Total dissolved solids	mg/L	n/a	22.1	1661		4247		3832.1		64		44		47.39	
TDS equiv. calculated	mg/L			2333		6642		5950.7		100		50		58.47	
Sodium charge balance	mg/L			695		1535		1400.2		22		6		8.71	
Aluminium (AI)	mg/L	0.1	0.0018	0.0202	0.000208	0.118	0.000378	0.102343	0.0003507	0.00362	0.000166	0.00260	0.000163	0.002769	0.00016351
Silver (Ag)	mg/L	0.0001	0.000005	0.000255	0.000255	0.001615	0.001610	0.001397	0.001393	0.00000673	0.00000399	0.0000175	0.00000942	0.000016	0.00000850
Arsenic (As)	mg/L	0.005	0.0005	0.00857	0.00000440	0.0538	0.0000984	0.046510	0.0000833	0.00190	0.000000129	0.000843	0.00000004	0.001022	0.00000006
Barium (Ba)	mg/L	n/a	0.0037	0.0113	0.00794	0.0737	0.00466	0.06371	0.0051862	0.00392	0.00378	0.00419	0.00405	0.004148	0.00400427
Cadmium (Cd)	mg/L	0.00004	0.000003	0.000165	0.00004	0.000975	0.00068	0.00085	0.00058	0.00000912	0.00000021	0.0000108	0.00000023	0.000010	0.00000023
Chromium (VI)	mg/L	0.001	0.0001	0.0000208	0.00001	0.000127	0.00009	0.00011	0.00008	0.00299	0.00027	0.0000505	0.0000037	0.000549	0.00004936
Copper (Cu)	mg/L	0.002	0.0005	0.512	0.00027	3.489	0.00586	3.011	0.00497	0.0184	0.0000039	0.0236	0.0000050	0.0227	0.00000479
Iron (Fe)	mg/L	0.3	0.0100	0.196	0.00000011	1.304	0.000000008	1.126	0.0000001	0.0371	0.00000011	0.0186	0.00000011	0.021763	0.00000001
Manganese (Mn)	mg/L	n/a	0.0015	0.00313	0.0000000017	0.0188	0.0000000001	0.01631	0.0000000	0.00340	0.00000	0.00298	0.00000000007	0.003047	0.00000000
Mercury (Hg)	mg/L	0.000026	0.000003	0.00000151	0.0000012	0.00000891	0.00001	0.0000077	0.0000077	0.00000253	0.00000043	0.00000271	0.00000043	0.000003	0.00000043
Molybdenum (Mo)	mg/L	0.073	0.0002	0.119	0.11025	0.800	0.78918	0.691	0.68025	0.00159	0.00118	0.00551	0.00382	0.004841	0.00337140
Nickel (Ni)	mg/L	0.025	0.0006	0.00913	0.00139	0.062	0.0616	0.053	0.05194	0.000840	0.00002	0.000981	0.00002	0.000957	0.00002425
Lead (Pb)	mg/L	0.001	0.0001	0.0000671	0.00E+00	0.000447	0.00000019	0.000386	0.0000002	0.0000862	0.0000000037	0.0000542	0.00000000022	0.000060	0.00000000
Selenium (Se)	mg/L	0.001	0.0001	0.0300	0.0299	0.201	0.201	0.174	0.17350	0.000106	0.00011	0.00139	0.00138	0.00117	0.00116
Zinc	mg/L	0.03	0.0010	0.000298	0.00001	0.00178	0.00028	0.00154	0.0002364	0.000969	0.00001	0.00101	0.000006	0.001003	0.00000652
Chloride	mg/L	120	0.79	602.3	602.3	1131.1	1131.0	1046.259	1046.2	10.8	10.8	7.4	7.4	8.0	7.97514036
Fluoride (F)	mg/L	0.12	0.079	0.096	0.096	0.582	0.582	0.504	0.504	0.0765	0.0765	0.083	0.083	0.082	0.08190602
Sulphate (SO4)	mg SO4/L	n/a	5.1	915.5	914.1	3293	3292	2911	2911	48.2	47.8	19.0	18.8	23.9	23.67912699
Total Cyanide (CNt)	mg/L	0.005	0.001	3.97E-10	7.70E-11	2.32	0.825	1.950	0.69	0.00000411	0.00000057	0.0000019	0.00000024	0.0000023	0.00000030
Ammonia (NH <sub>3</sub> ) (ionized)	mg N/L	0.86	0.019	19.9		73.0		64.5		0.454		0.326		0.347	0.00000000
Nitrate (NO₃)	mg N/L	2.94	0.033	2.573		17.1		14.8		0.0847		0.153		0.141	0.00000000
Total N equivalent	mg N/L	0.35	0.052	22.5	22.5	90.1	90.2	79.3	79.3	0.538	0.538	0.478	0.478	0.489	0.488

Notes:

<sup>&</sup>lt;sup>4</sup>Cells highlighted in "light or dark grey" indicated forecasted and eq. Conc. parameters respectively in the North and South Cells that are higher than CCME guideline.

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<sup>&</sup>lt;sup>1</sup>Assumes threshold concentration for Chromium (VI).

<sup>&</sup>lt;sup>2</sup>Uses threshold concentration for classification of an Oligotrophic lake in terms of nutrient concentrations (Nurnberg 1996).

<sup>&</sup>lt;sup>3</sup>Cells in "pale or bright red" indicate forecasted and equilibrium concentration respectively at closure that are higher than CCME guidelines.



#### 4.5 Discussion

Modeling of equilibrium conditions predicts that the following soluble constituents will be removed from solution to a significant extent as a result of the precipitation of various oxides, hydroxides, co-precipitates and adsorption to amorphous ferrihydrite: aluminum, arsenic, cadmium, chromium, copper, iron, manganese, mercury, nickel, lead, zinc and cyanide.

The following constituents are predicted not to undergo a significant lowering in soluble concentration as a result of the same geochemical processes: silver, barium, molybdenum, selenium, total nitrogen, chloride, fluoride and sulphate.

#### North & South Cells in 2018

From October 2018 to June 2019, no ore will be processed through the mill, as the Meadowbank Mine operations will have ended, and Whale Tail Pit operations will not have started yet. Therefore, no tailings deposition will occur in the North and South Cell TSF.

A simulation was performed with the geochemical tool PHREEQC to evaluate the dissolved fraction of the different constituents that will remain in solution at equilibrium. The results are presented in Table 4-1. It is observed that there is some decrease in the concentrations of most parameters of concern. However, for most of parameters, it is not enough to meet the CCME guidelines. It is noted that there are more parameters of concerns that do not meet the guidelines in the South Cell than in the North Cell.

#### Portage and Goose Pits in 2028

Another geochemical simulation was performed using the forecasted concentrations of December 2028, before the breaching of dykes begins between Goose Pit, Portage Pit and Third Portage Lake in 2029. The parameters of concern that do not meet the guidelines with the mass balance approach were presented in Section 3-2, which are copper in both pits, chromium (VI) in Portage Pit and selenium in Goose Pit. Total nitrogen was also added to the list of parameters and does not meet the CCME guidelines for both pits with the mass balance approach.

When modeling these parameters, the predicted equilibrium concentrations exceed the CCME guideline for total nitrogen in both pits, and for selenium in Goose Pit. It should be noted that the concentrations of these parameters are only slightly lower at equilibrium.

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### 5.0 TREATMENT REQUIREMENTS

Based on the results of the water quality mass balance presented in Section 3 and the PHREEQC model presented in Section 4, treatment may be required for metal removal (primarily for selenium but potentially for other metals as well if the assumption that there is no resuspension of solids is not accurate) and ammonia (to reduce total nitrogen). Treatment could be ideally undertaken at the South Cell and the North Cell TSF Reclaim Ponds.

If high selenium concentrations persist, different treatment methods based on the adsorption process may be considered, such as: iron co-precipitation, zero valent iron (oxidation), ion exchange, activated alumina or carbon.

If it is required to ensure that all metals are precipitated out, treatment for other metals (ie: copper) should be planned. It may be removed through pH adjustment: caustic or lime can be added to the effluent to increase the pH to 9, causing the formation of metal hydroxide precipitates, which settle out. The different treatment options that may be considered to implement the precipitation of metals other than selenium are listed below:

- ☐ The existing Attenuation Pond water treatment plant (WTP) can be modified for metal precipitation with the addition of a lime or sodium hydroxide dosing system. The water will be eventually transferred from the North Cell to the South Cell TSF Pond. Then, the water could be pumped from the South Cell TSF pond to the WTP for treatment, and be recirculated back to the pond. Note that the average pH in 2015 in the Attenuation Pond was 7.97.
- □ Treatment in situ at South Cell TSF Reclaim Pond or at Portage and Goose pits. Lime or sodium hydroxide would be added in the pit, and the solids would settle in the pond.
- ☐ Increase the pH of the tailings water at the cyanide destruction system to favour the precipitation of dissolved metals as metal hydroxides so that they can settle out in the TSF.

If ammonia concentrations are too high, ammonia can be removed through a variety of treatment methods:

- In-situ aeration during the summer months;
- Biological treatment;
- Chemical oxidation;

- Membrane processes such as reverse osmosis;
- Ion exchange.

These technologies should be studied and evaluated in detail to determine if they are applicable to site and effluent conditions at Meadowbank. Laboratory and/or in-situ pilot tests should also be considered to validate the treatment method selected.

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### 6.0 CONCLUSIONS

SNC-Lavalin was mandated by AEM to perform a preliminary assessment of the water quality forecast in Goose and Portage pits at closure based on the water balance developed by AEM that incorporates the additional tailings from Whale Tail Pit deposited in the existing TSF (North and South Cells).

The results of this feasibility assessment demonstrated the following:

- With regard to the water quality forecast in the pits at closure using a mass balance approach, the results show higher concentrations than the CCME guidelines for copper in both pits, chromium (VI) in Portage Pit and selenium in Goose Pit. When both pits are completely mixed, copper and selenium are still above the CCME guidelines;
- Chromium was not identified as a parameter of concern when assessing the water quality forecast with only tailings from Meadowbank only.
- □ In 2018, before Whale Tail Pit operations begin, many parameters could be above the CCME guidelines in North and South Cell TSF Reclaim Ponds based on the mass balance forecast approach. When evaluating the equilibrium concentrations using the geochemical modelling tool, some concentrations decrease, but in most cases, not enough to reach concentrations below the CCME guidelines;
- At closure, when evaluating the equilibrium concentrations using the geochemical modelling tool, the parameters of concern that remain above the CCME guidelines in the Goose and Portage pits are selenium and total nitrogen. Therefore these two parameters should be closely monitored and treatment should be considered in the event that these two parameters remain elevated in the TSF Reclaim Ponds. More accurate data on the Whale Tail tailings should be collected before a treatment strategy is developed.

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## 7.0 PERSONNEL

This report has been prepared by Geneviève Beaudoin-Lebeuf. We trust that this report is to your satisfaction. Should you have any questions, please do not hesitate to contact me.

## **Anh-Long Nguyen**

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## 8.0 REFERENCES

- Azimuth. 2015. Core Receiving Environment Monitoring Program (CREMP) 2014, Meadowbank Mine. Report prepared by Azimuth Consulting Group, Vancouver, BC for Agnico-Eagle Mines Ltd., Baker Lake, NU. March 2015.
- ii. CCME (1999). Canadian Interim Freshwater Sediment Quality Guidelines (ISQG) for the Protection of Aquatic Life. Canadian Council of Ministers of the Environment. Winnipeg, Manitoba, Canada.
- iii. Cumberland (2005). Meadowbank Gold Project, Baseline Aquatic Ecosystem Report. Cumberland Resources Ltd. October 2005.
- iv. USGS (2014). PHREEQC Interactive. Version 3.1.4.8929. Released August 20, 2014. http://wwwbrr.cr.usgs.gov/projects/GWC\_coupled/phreeqc/. United States Geological Survey (USGS). Lakewood, Colorado, United States.
- v. SLI (2015): SNC-Lavalin Inc., Meadowbank Gold Project Water Quality Forecasting Update 2014, 625618-0000-40ER-0001, March 2015.
- vi. Smith et al., (1999). Eutrophication: impacts of excess nutrient inputs on freshwater, marine, and terrestrial ecosystems. Smith, V.H., Tilman, G.D., and Nekola, J.C. Environmental Pollution 100 (1999) 179-196.
- vii. Thompson et. al (2005). Derivation and Use of Sediment Quality Guidelines for Ecological Risk Assessment of Metals and Radionuclides Related to the Environment from Uranium Mining and Milling Activities in Canada. Thompson, P.A., Kurias, J., and Mihok, S. Environmental Monitoring and Assessment. November 2005. Volume 110, Issue 1-3, p 71-85.

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## **Water Quality Forecasting Figures**

## **APPENDIX A**

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