

centerraGOLD



# 2025 ANNUAL WATER USAGE AND MONITORING REPORT

## Mount Milligan Mine

Thompson Creek Metals Company Inc.  
A Subsidiary of Centerra Gold

30 January 2026

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## Definitions

### Acronyms

EAC	Environmental Assessment Certificate
EFN	Environmental Flow Needs
FSR	Forest Service Road
GW	Groundwater
LOM	Life of Mine
LRV	Lower Rainbow Valley
MTM	Mount Milligan Mine
MCM	BC Ministry of Mines and Critical Minerals
PL	Philip Lake
POD	Point of Diversion
QP	Qualified Professional
SW	Surface Water
SWAMMP	Site-Wide Adaptive Management and Monitoring Plan
TDW	Tailings Dewatering Well
TDS	Total Dissolved Solids
TSF	Tailings Storage Facility
WL	Water Licence
WLRS	BC Ministry of Water, Land and Resource Stewardship
WSA	Water Sustainability Act
WW	Water Well
QA/QC	Quality Assurance and Quality Control

### Units

L	Liters
L/sec	Liters per second
m <sup>3</sup>	Cubic meters
m <sup>3</sup> /s	Cubic meters per second
m <sup>3</sup> /d	Cubic meters per day
m <sup>3</sup> /yr	Cubic meters per year
Mm <sup>3</sup>	Millions of cubic meters
masl	Meters above sea level

## 1.0 Introduction

### 1.1 Background

Thompson Creek Metals Inc., a subsidiary of Centerra Gold Inc., operates the Mount Milligan Mine (MTM), a conventional truck-shovel open-pit copper and gold mine with a processing plant (Mill) and various ancillary facilities, including a tailings storage facility (TSF). The mine currently obtains water from a variety of sources including water present in the TSF (surface runoff from the mine site that flows into the TSF, direct precipitation onto the TSF, and recycling of tailings water from the TSF), and groundwater and surface water diverted under the terms of the *Water Sustainability Act* (WSA; BC Gov, 2016) Conditional Water Licences. Current groundwater sources include the TSF, as well as the Meadows Creek and Lower Rainbow Valley (LRV) well fields. Surface water is sourced from Philip Lake 1 and Rainbow Creek.

Water extraction activities at MTM are regulated and authorized through Environmental Assessment Certificate (EAC) #M09-01 and WSA Conditional Water Licences (listed in Table 1 below). The EAC component regulates the broader environmental effects of mining activities (including water extraction) for the Mine, whereas, WSA Conditional Water Licences prescribe specific operational limitations for water extraction.

A summary of current WSA Conditional Water Licences for MTM, as it relates to EAC #M09-01 Amendment 9, condition 4.2 is provided in Table 1, below:

Table 1: 2025 Summary of current WSA Conditional Water Licences for Mount Milligan Mine

Functional Area	Type	WL #	WL Issued	WL Expiry	Annual Allowable Extraction Period Start	Annual Allowable Extraction Period End	Allowable Extraction Volume	Allowable Extraction Rate
Rainbow Creek	SW	504634	03-Mar-23	31-Dec-29	Apr-01	Nov-30	7,000,000 m <sup>3</sup> /yr	2.0 m <sup>3</sup> /s
Philip Lake 1	SW	504624	03-Mar-23	31-Dec-29	Apr-01	Nov-30	3,500,000 m <sup>3</sup> /yr	1.1 m <sup>3</sup> /s
TSF Internal Wells	GW	501608	18-Dec-19	LOM	Jan-01	Dec-31	1,560,740 m <sup>3</sup> /yr	n/a
Meadows Creek Well Field	GW						646,780 m <sup>3</sup> /yr	n/a
Lower Rainbow Valley Well Field	GW	505251	28-Aug-23	31-Dec-33	Jan-01	Dec-31	3,860,006.4 m <sup>3</sup> /yr	n/a
		508053	3-Sep-25	31-Dec-33				
Philip Lake Well Fields	GW	508154	23-Sep-25	31-Dec-35	Jan-01	Dec-31	WTN 125368	55.2l/s
							1,740,685 m <sup>3</sup> /yr	80.0l/s
							2,522,880 m <sup>3</sup> /yr	

**Notes:**

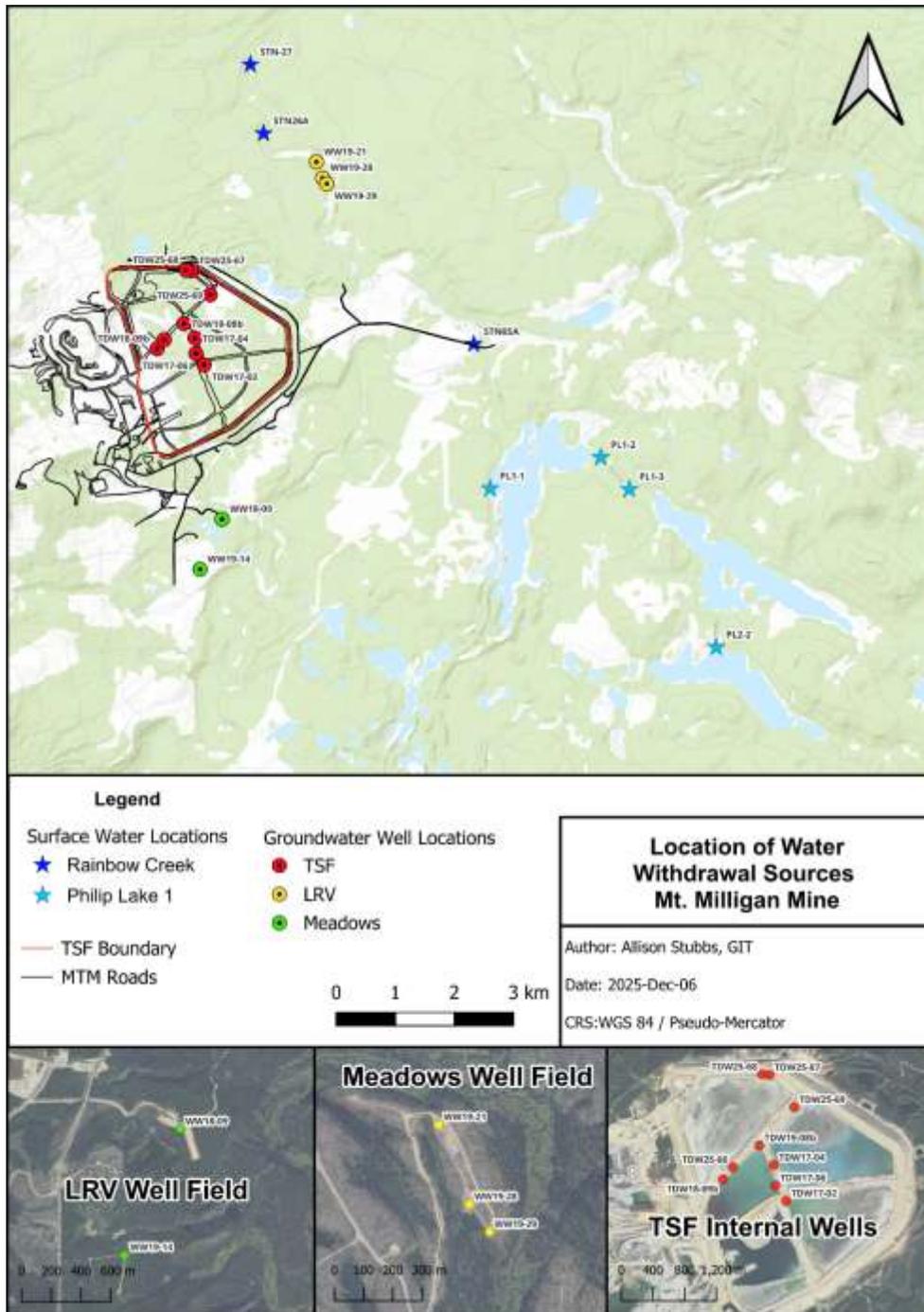
SW: surface water; GW: groundwater; WL: Water Licence; LOM: Life of Mine; m<sup>3</sup>/yr: cubic meters per year; m<sup>3</sup>/s cubic meters per second; n/a: not applicable.

In September 2025, MTM received Conditional Water Licence 508053, issued in substitution of Conditional Water Licence 505251. This amended licence adds three new wells (Water Well [WW] 20-35, WW20-36, and WW20-41) to the list of authorized works, for withdrawal from the LRV Aquifer. Conditional Water Licence 508154 was also received in September 2025. This licence is linked as a 'backup

supply licence system' to Water Licence Numbers 503125, 501608, 508053, 502776, 504624, 504634, 506680, and C125724. The maximum quantity of water which may be diverted and used under this supply licence system is 15.008 million cubic metres annually.

The authorized groundwater and surface water points of diversion (POD) are presented in Figure 1.

Figure 1. Overview Map of Water POD at MTM



The WSA Conditional Water Licences require MTM to withdraw water from well fields and surface water sources in compliance with the most current version of MTM’s Site-Wide Adaptive Management and Monitoring Plan (SWAMMP; Stantec and Waterline, 2025). The SWAMMP is a dynamic document that is updated as needed to address environmental and operational changes within the permitted mine area. The most recent version, SWAMMP Version 7 (V7), was submitted to the BC Ministry of Water, Land and Resource Stewardship (WLRS) on March 22, 2025.

MTM engages the services of Waterline Resources Inc. (Waterline) as the Mine’s qualified professional (QP) in hydrogeology and Knight Piesold Consulting (KP) as the hydrology QP to provide professional support for implementing the monitoring requirements and ensuring adherence to established thresholds outlined in the SWAMMP.

Licensed water withdrawals have the potential to impact flows in Rainbow and Meadows Creeks. To address this, the SWAMMP outlines monitoring programs and establishes surface water and groundwater withdrawal threshold criteria based on environmental flow needs (EFN). These measures ensure that MTM operates within the established thresholds to withdraw water while protecting fish and other aquatic resources.

Water extraction activities at MTM are subject to two distinct and significant reporting obligations. The first relates to EAC #M09-01 Amendment 9, Condition 4, while the second pertains to WSA Conditional Water Licences, as outlined in the SWAMMP. Water extraction is authorized through multiple WSA Conditional Water Licences (Table 1), with monitoring and adaptive management strategies detailed in the SWAMMP. Reporting obligations specific to these licences are also defined within the SWAMMP.

Although the reporting requirements under EAC #M09-01 and the WSA Conditional Water Licences are complementary, they remain distinct and separate components. This annual report is intended to fulfill the reporting obligations outlined in EAC #M09-01, drawing on references and information from the SWAMMP and WSA Conditional Water Licences where applicable.

This report is a summary of water withdrawal activities from surface and groundwater sources at MTM between January 1 and December 31, 2025. The next annual report, for 2026 water diversion and use, will be submitted by MTM for distribution to WLRS and the Water Working Group/Mine Review Committee, including Indigenous groups, by January 31, 2027.

## 1.2 Objectives

As described in EAC #M09-01 Amendment 9, Condition 4, this report must include, at minimum:

- The volume of water MTM has withdrawn each month from surface water and groundwater sources, listed by individual source;
- The elevation, freeboard, and volume of water in the TSF; and
- The results from monitoring conducted by MTM related to the effects of water withdrawals and construction and operation of infrastructure associated with water withdrawals.

## 2.0 Water Withdrawal Summary

This section summarizes 2025 surface and groundwater withdrawal activity at MTM. Surface water withdrawals occurred from Rainbow Creek and Philip Lake 1; groundwater extraction occurred from the TSF, Meadows Well Field, LRV Well Field and the Philip Well Field. Refer to Table 1 for a summary of relevant water licences and authorized withdrawal volumes.

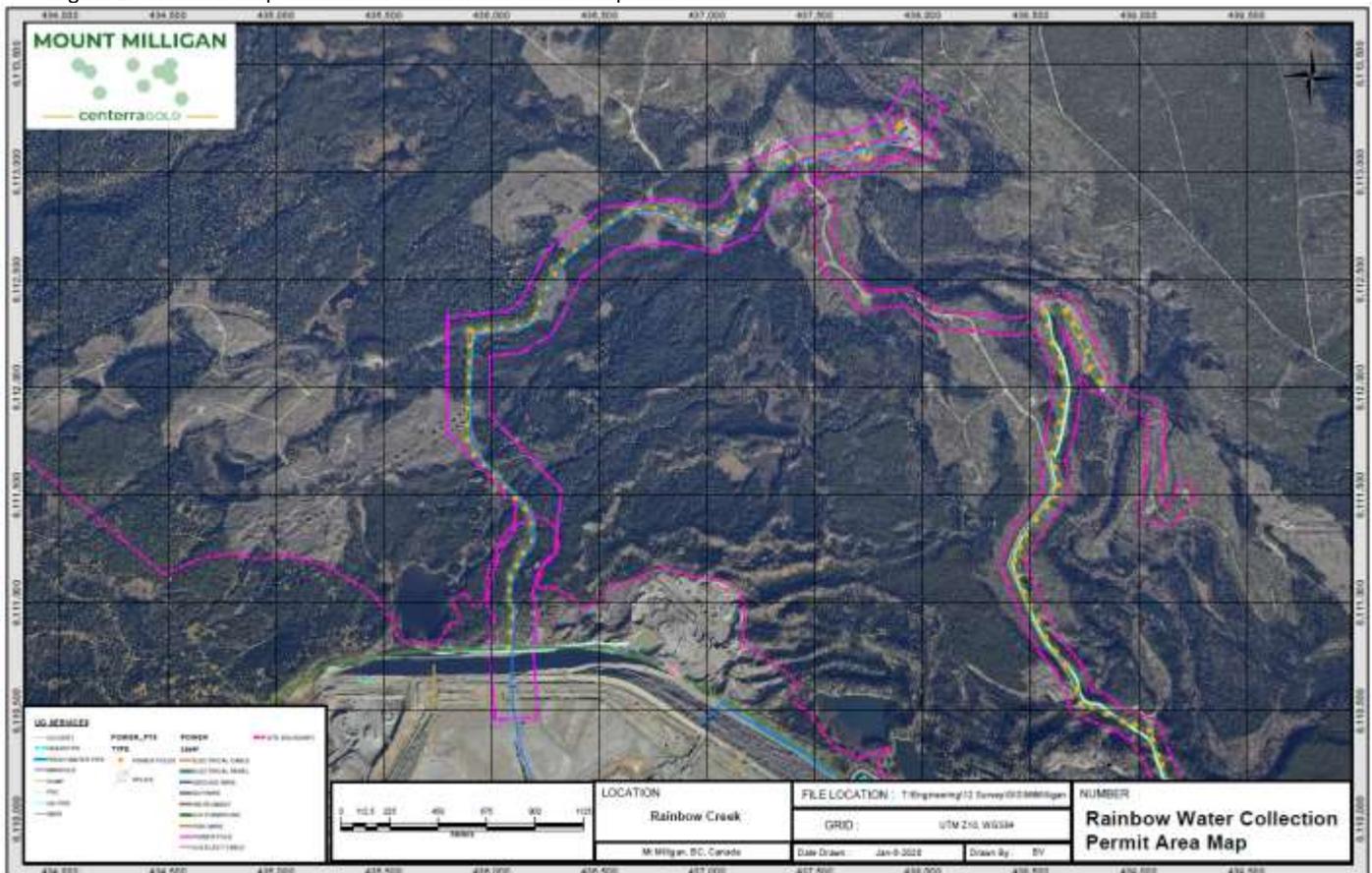
### 2.1 Surface Water Sources

In 2025, MTM extracted a total of 3,518,913 cubic metres (m<sup>3</sup>) of water from surface water sources, in compliance and well below the authorised combined 10,500,000m<sup>3</sup> volumes under the WSA Conditional Water Licences and the SWAMMP. Specific volumes obtained from surface water sources are indicated in sections 2.1.1 and 2.1.2 below.

#### 2.1.1 Rainbow Creek

In 2025, surface water extraction from Rainbow Creek (STN-26A) occurred between April and October. The total volume withdrawn during this period was 2,875,805 m<sup>3</sup> (Table 2). An overview of the Rainbow Creek water collection area is presented in Figure 2.

Figure 2: Overview map of Rainbow Creek water collection permit area



### 2.1.2 Philip Lake 1

In 2025, surface water extraction from the Philip Lake 1 POD (Figure 1) occurred between June and August. The total volume withdrawn during this period was 841,164 m<sup>3</sup> (Table 2).

Table 2. 2025 Surface Water extraction volumes

WSA Licence	Area	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2025 Total
		(m <sup>3</sup> )												
504634	Rainbow Creek	-	-	-	325,233	1,714,447	330,904	191,469	175,024	134,270	4,458	-	-	2,875,805
504624	Philip Lake 1	-	-	-	-	198,056	329,190	263,576	50,342	-	-	-	-	841,164
<b>Total 2025 Production:</b>		-	-	-	-	325,233	1,714,447	660,094	455,045	225,366	134,270	4,458	-	3,716,969

Notes: m<sup>3</sup>: cubic metres.

## 2.2 Groundwater Sources

In 2025, the total volume extracted from groundwater sources was 16,707,872 m<sup>3</sup> (Table 3). All withdrawals were conducted in compliance with the authorized volumes specified by the WSA Conditional Water Licences (Table 1) and the SWAMMP. Specific volumes obtained from groundwater sources are indicated in sections 2.2.1, 2.2.2, and 2.2.3 below.

### 2.2.1 TSF Internal Wells

Groundwater extraction occurred throughout 2025 from the TSF pumping wells summarized in Table 3. Four new TSF internal wells (Tailings Dewatering Well [TDW] 25-66, TDW25-67, TDW25-68, and TDW25-69; Figure 1) were drilled in the North Cell to increase supply of recovered process water to the process plant. Pumps were removed from Basin Underdrain Well (BUW) 5 and TDW19-22 and the well casings at these locations are scheduled for decommissioning in 2026.

The total water volume withdrawn from the TSF internal wells was 14,305,012 (Table 3). Laboratory analysis indicates that approximately 93% of this volume, or 13,303,661,538,321 m<sup>3</sup>, can be classified as process water, indicating that 1,001,351 m<sup>3</sup> is classified as GW which is below the authorized diversion volume of 1,560,740 m<sup>3</sup>/yr. This classification compares the Total Dissolved Solids (TDS) content in samples obtained from these wells with that of known mine process water. The similarity in TDS levels suggest that a significant quantity of the extracted water is process water.

### 2.2.2 Meadows Creek Well Field

In 2025, groundwater extraction was conducted year-round from Meadows Creek Well Field pumping well WW18-09 (Figure 1). The total water volume withdrawn during this period was 294,848 m<sup>3</sup> (Table 3).

### 2.2.3 Lower Rainbow Valley Well Field

In 2025, groundwater extraction was conducted year-round from the LRV Well Field pumping wells WW19-21, WW19-28, and WW19-29 (Figure 1). The total volume withdrawn was 1,555,990 m<sup>3</sup> (Table 3).

### 2.2.4 Philip Well Field

In 2025, groundwater extraction was conducted starting in September from the Philip Well Field pumping wells WW20-41, WW21-43, and WW23-48 (Figure 1). The total volume withdrawn was 552,023 m<sup>3</sup> (Table 3).



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Table 3: 2025 Groundwater extraction volumes

WSA Licence	Well Field	Pumping Well	WTN	January	February	March	April	May	June	July	August	September	October	November	December	2025 Total	
				(m <sup>3</sup> )													
501608	TSF	TDW17-02	115515	80,825	74,149	81,856	77,185	83,381	80,754	34,512	68,940	63,846	-	76,421	80,867	<b>802,735</b>	
		TDW17-04	115518	19,486	14,893	14,168	-	9,519	21,904	23,615	23,615	22,474	23,583	22,823	22,960	<b>219,041</b>	
		TDW17-06	115521	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>-</b>
		TDW18-08b	115522	45,370	41,092	38,125	32,783	29,485	38,991	35,136	26,095	24,995	-	7,309	32,547	<b>351,928</b>	
		TDW18-09b	115825	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>-</b>
		BUW 5	118478	52,941	32,927	51,164	61,190	53,175	58,318	53,938	30,293	11,898	-	-	-	-	<b>405,844</b>
		BUW 6	118569	63,488	51,394	64,014	67,849	68,498	68,491	77,691	93,887	94,027	83,044	71,530	66,910	-	<b>870,823</b>
		TDW17-6R	132705	180,640	150,121	161,293	148,370	164,204	150,750	145,455	121,412	118,336	139,923	164,932	149,861	-	<b>1,795,297</b>
		TDW18-9R	132706	151,165	136,574	161,691	162,728	157,664	162,988	162,832	114,255	84,858	91,300	156,711	165,123	-	<b>1,707,888</b>
		TDW19-22	118978	-	-	-	-	-	-	-	-	-	-	-	71,150	53,525	<b>124,675</b>
		TDW24-54	132704	119,753	90,394	150,854	61,129	153,477	155,139	156,982	144,235	102,826	123,911	151,047	151,796	-	<b>1,561,544</b>
		TDW24-55	132699	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>-</b>
		TDW24-56	132694	158,667	141,430	155,486	79,782	102,799	120,530	163,721	161,010	40,366	160,490	154,355	150,717	-	<b>1,589,354</b>
		TDW24-57	132690	166,897	147,957	154,598	149,878	90,257	69,042	97,424	151,873	155,212	158,887	154,544	158,340	-	<b>1,654,909</b>
		TDW24-62	132688	128,636	111,716	141,950	139,198	139,566	93,395	154,268	155,415	136,440	159,456	150,240	157,487	-	<b>1,667,767</b>
		TDW24-63	132669	-	-	-	-	7,339	102,117	101,631	114,694	133,961	141,224	135,556	140,093	-	<b>876,616</b>
		TDW24-65	132668	-	-	-	-	-	32,980	74,616	73,881	70,501	74,804	81,972	95,863	-	<b>504,617</b>
		TDW25-66	TBD <sup>(1)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	120,585	<b>120,585</b>
	TDW25-67	TBD <sup>(1)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	20,267	<b>20,267</b>	
	TDW25-68	TBD <sup>(1)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	31,124	<b>31,124</b>	
	TDW25-69	TBD <sup>(1)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>-</b>	
<b>TSF Subtotal:</b>				<b>1,167,869</b>	<b>992,646</b>	<b>1,175,199</b>	<b>980,093</b>	<b>1,059,365</b>	<b>1,155,398</b>	<b>1,281,821</b>	<b>1,279,605</b>	<b>1,059,741</b>	<b>1,156,623</b>	<b>1,398,590</b>	<b>1,598,064</b>	<b>14,305,012</b>	
Meadows	WW18-09	115519	25,825	23,784	24,194	25,348	26,537	24,997	25,416	24,355	21,527	24,295	23,622	24,948	-	<b>294,848</b>	
	WW19-14	117744	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>-</b>	
	<b>Meadows Subtotal:</b>				<b>25,825</b>	<b>23,784</b>	<b>24,194</b>	<b>25,348</b>	<b>26,537</b>	<b>24,997</b>	<b>25,416</b>	<b>24,355</b>	<b>21,527</b>	<b>24,295</b>	<b>23,622</b>	<b>24,948</b>	<b>294,848</b>
<b>Licence 501608 Sub-Total:</b>				<b>1,193,693</b>	<b>1,016,430</b>	<b>1,199,393</b>	<b>1,005,441</b>	<b>1,085,902</b>	<b>1,180,395</b>	<b>1,307,237</b>	<b>1,303,960</b>	<b>1,081,268</b>	<b>1,180,918</b>	<b>1,422,212</b>	<b>1,623,012</b>	<b>14,599,860</b>	



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505251 / 508053	LRV	WW19-21	118043	91,961	83,149	87,945	89,141	47,752	-	26,925	67,329	82,588	81,591	75,142	87,134	<b>820,658</b>	
		WW19-28	118259	81,574	73,485	78,728	79,490	42,122	-	26,374	60,169	82,874	13,612	42,535	95,022	<b>675,985</b>	
		WW19-29	118079	-	-	-	-	-	-	-	-	-	42,841	10,206	6,300	-	<b>59,347</b>
		WW20-41	12383	-	-	-	-	-	-	-	-	-	2,429	40,274	43,230	49,017	<b>134,950</b>
<b>Licence 505251/508053 Subtotal:</b>				<b>173,535</b>	<b>156,634</b>	<b>166,673</b>	<b>168,631</b>	<b>89,874</b>	<b>-</b>	<b>53,299</b>	<b>127,498</b>	<b>210,732</b>	<b>145,683</b>	<b>167,207</b>	<b>231,173</b>	<b>1,690,940</b>	
508154	Philip	WW21-43	125368	-	-	-	-	-	-	-	-	7,037	46,917	37,085	49,795	<b>140,834</b>	
		WW23-48	129425	-	-	-	-	-	-	-	-	-	15,935	89,109	77,988	93,207	<b>276,240</b>
<b>Licence 508154 Subtotal:</b>				<b>-</b>	<b>22,972</b>	<b>136,026</b>	<b>115,073</b>	<b>143,002</b>	<b>417,073</b>								
<b>Total 2025 Production:</b>				<b>1,367,228</b>	<b>1,173,064</b>	<b>1,366,066</b>	<b>1,174,072</b>	<b>1,175,776</b>	<b>1,180,395</b>	<b>1,360,536</b>	<b>1,431,458</b>	<b>1,314,973</b>	<b>1,462,627</b>	<b>1,704,492</b>	<b>1,997,187</b>	<b>16,707,872*</b>	

Notes:

- 1) TDW25-66, TDW25-67, TDW25-68, TDW25-69 - Well Tag Number assignment pending submission of drilling reports to the BC Groundwater Wells and Aquifers database (GWELLS).
- 2) TSF=Tailings Storage Facility, WTN=Well Tag Number, TDW = Tailings Dewatering Well, m<sup>3</sup> = cubic meters, WW= Water Well. \*Water use reported from the TSF is considered conservative, as volumes are total water extracted, which are predominately processed water rather than natural groundwater (freshwater).

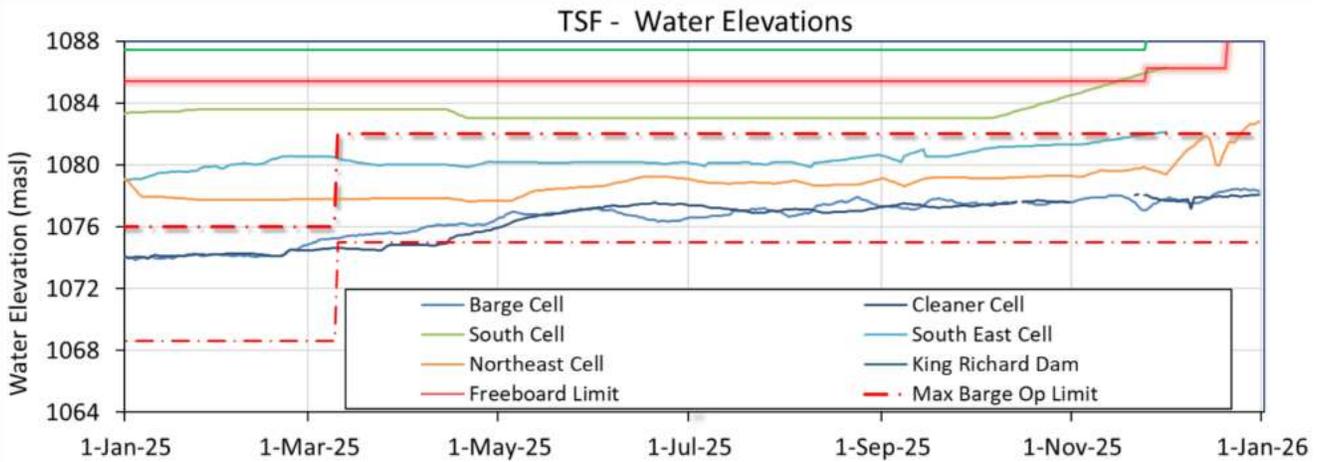
### 3.0 Tailings Storage Facility Water Storage

#### 3.1 Water Elevation and Freeboard

Daily TSF water elevation measurements were conducted by MTM throughout 2025 (Figure 3). The average measured water elevation was 1078.68 metres above sea level (masl), ranging between 1073.87 masl (Barge Cell/Cleaner Cell; January 2025) and 1086.29 masl (South Cell; December 2025).

Freeboard elevation is defined as the minimum difference between water elevation and the lowest core elevation. The tailings elevation at the South Embankment exceeded the minimum freeboard limit (2 metres [m]) between November 16 and December 1, 2025 (Figure 3). Low spots on the TSF crest were subsequently raised in November 2025 to increase freeboard to compliant levels (i.e.,  $\geq 2\text{m}$  of freeboard).

Figure 3: 2025 Mount Milligan Mine TSF water elevation



#### 3.2 Water Volumes in Storage

Monthly water volumes stored in the TSF were calculated by MTM and are presented in Table 4 in millions of cubic meters (Mm<sup>3</sup>) of water. Actual monthly water volumes in storage ranged between 1.52 Mm<sup>3</sup> (November) and 2.39 Mm<sup>3</sup> (May) in 2025.

Table 4. 2025 Monthly TSF volumes

Month	Actual TSF Volume (Mm <sup>3</sup> )	Regulatory Maximum Volume (Mm <sup>3</sup> )
January	1.89	10
February	1.72	10
March	1.54	10
April	1.83	10
May	2.39	10
June	2.34	10
July	1.98	10
August	1.96	10



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September	1.97	10
October	2.15	10
November	1.52	10
December	1.83	10

**Notes:** Mm<sup>3</sup>= million cubic meters.

Monthly TSF stored water volumes at MTM remained below the regulatory maximum volume threshold of 10 million m<sup>3</sup> throughout 2025 (Table 4).

## 4.0 Monitoring Results

Monitoring results, comprising discharge measurements, water level (elevation), and water depth, are used to assess the potential effects of surface and groundwater withdrawals and ensure compliance with limits set within the SWAMMP and applicable water licences (Table 1). These results are summarized in the sections below.

### 4.1 Surface Water Sources

Surface water level and discharge monitoring occurred at Rainbow Creek and the Philip Lakes complex in 2025 and results of key monitoring activities relating to water withdrawals are provided below. Surface water monitoring was completed as prescribed in the Mount Milligan Mine SWAMMP V7.

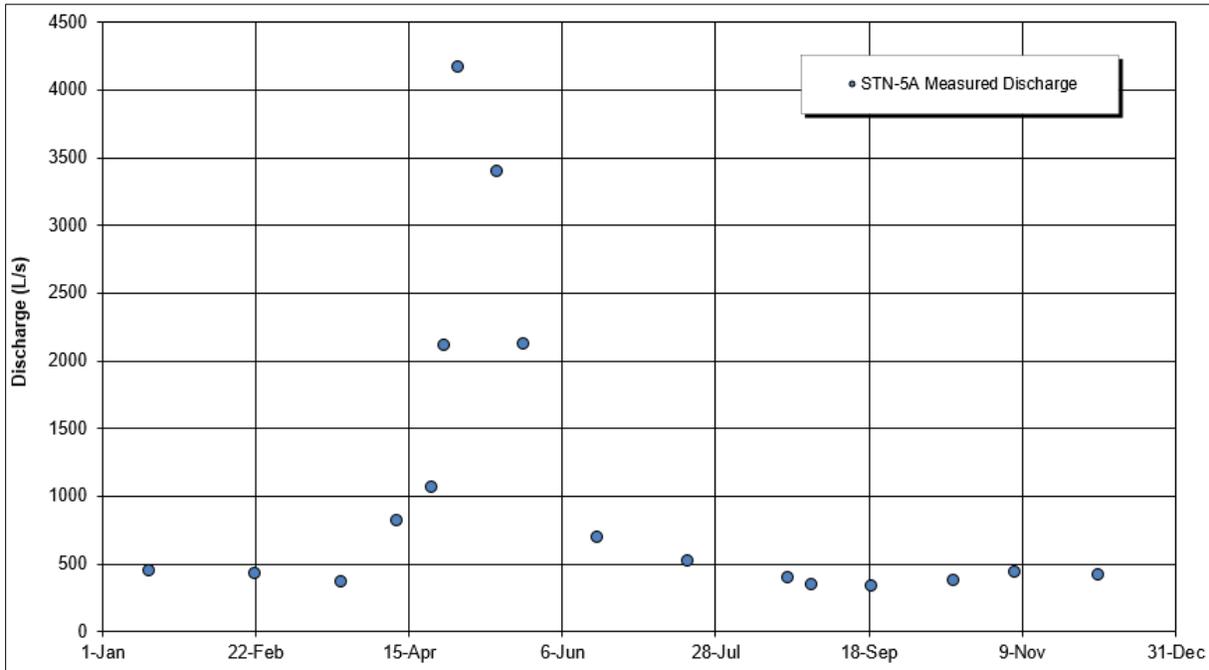
#### 4.1.1 Rainbow Creek

Hydrometric monitoring of Rainbow Creek for surface water withdrawals focused on STN-5A, located upstream of the Rainbow Creek POD at 33 kilometres (km) on the Rainbow Forest Service Road (FSR), STN-26A, which is located just upstream of the POD, and STN-27, located downstream of the POD (Figure 1). Flows from STN-5A serve as a reference monitoring point, while flows from STN-26A provide data to determine allowable flow rates for surface water withdrawals. Additionally, flows from STN-27 were monitored to assess the downstream effects of surface water withdrawals on Rainbow Creek.

##### 4.1.1.1 Rainbow Creek Upstream (STN-5A)

Flows for STN-5A in 2025 ranged from approximately (~)450 litres per second (L/s) in January to a peak of ~4,100 L/s during the mid-April peak flow season (i.e., freshet), followed by a seasonal minimum of ~330 L/s in late September. Spring exhibited the most dynamic flow conditions, with substantial increases observed from April through May. Following freshet, discharge decreased through late spring and summer (late May to late September). During the late fall period, discharge showed a slight increasing trend, with flows ranging from ~370 L/s in October to ~430 L/s by December. Measured discharge values for STN-5A are shown in Figure 4.

Figure 4: 2025 Discharge measurements for Rainbow Creek (STN-5A)

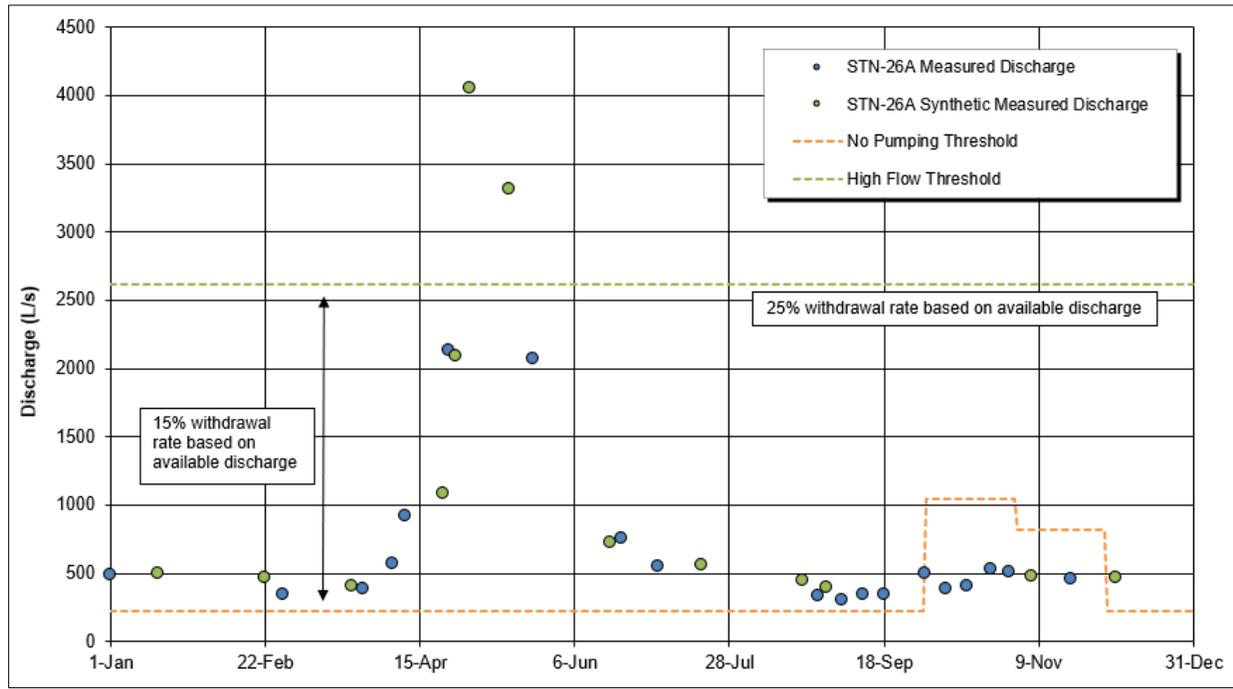


#### 4.1.1.2 Rainbow Creek Downstream (STN-26A)

STN-26A has limited flow data during the peak freshet period and is located approximately 8.5 km downstream of STN-5A on Rainbow Creek. As no pumping or discharge extraction activities occur between the two stations, streamflow measurements at STN-5A and STN-26A are strongly correlated. To improve visualization of the annual hydrograph at STN-26A, discharge measurements from STN-5A were transformed to STN-26A-equivalent flows using coefficients derived from a linear regression of near-concurrent measurements at both stations. Both measured and synthetic discharge values for STN-26A are presented in Figure 6.

Discharge measurements at STN-26A upstream of the POD in 2025 exhibit clear seasonal patterns. Instantaneous flows ranged from ~500 L/s in January, declined to a winter low of ~350 L/s in February, and increased to a peak of ~4,000 L/s in early May. Flows remained low while the channel was ice-covered until late April, after which discharge increased rapidly in response to rising air temperatures and snow and ice melt. Freshet flows increased from ~550 L/s in early April to the late May peak of ~4,000 L/s. Following the spring freshet, discharge declined to ~700-750 L/s in June and continued to decrease through late summer, reaching 350-400 L/s due to warm temperatures and minimal precipitation. The lowest flows in 2025 occurred in late September. In late fall, discharge increased in response to rainfall events, with flows recovering slightly to ~400 L/s by December. Throughout the allowable pumping period, measured and estimated flows at STN-26A generally remained above the no-pumping threshold.

Figure 5: 2025 Discharge measurements for Rainbow Creek (STN 26A)



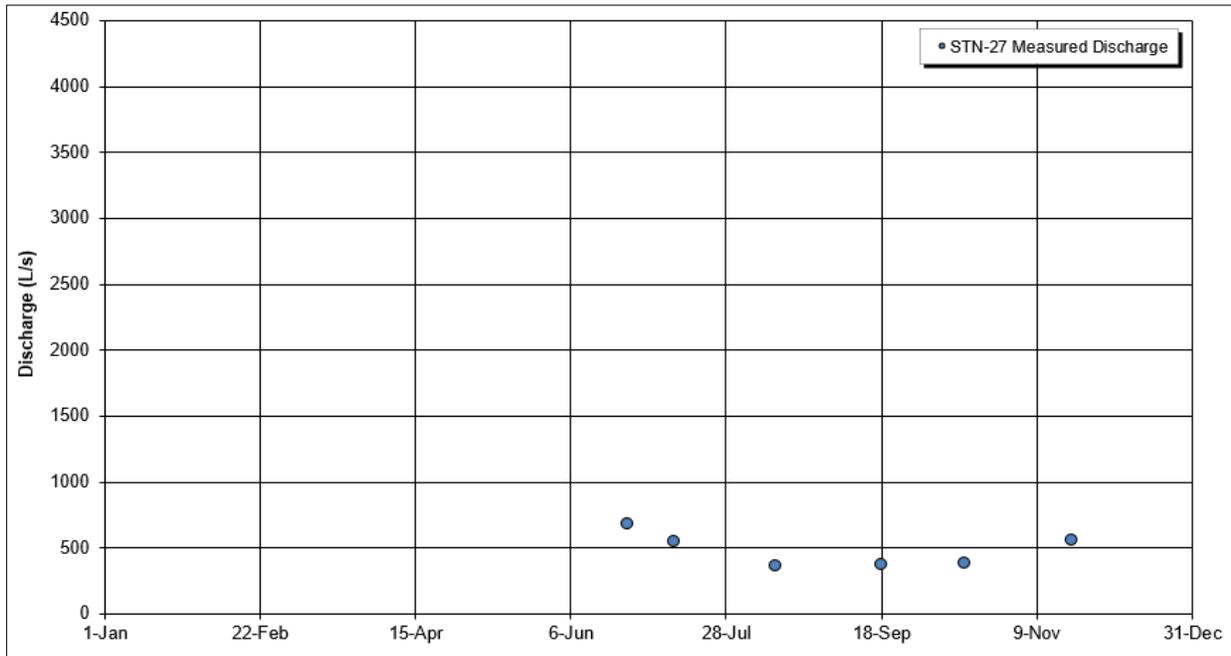
#### 4.1.1.3 Rainbow Creek Downstream (STN-27)

The STN-27 had limited flow data due to frozen winter conditions which affect flow measurement. These conditions limited the stability of downstream flow measurements and did not support the development of a consistent relationship between flows observed at the two stations that is STN -26A and STN 27. STN-27 is located approximately 2 km downstream of STN-26A on Rainbow Creek.

Consequently, a reliable correlation could not be established, and synthetic flows were not developed for STN-27. Flow reporting for STN-27 is therefore based on the discharge measurements collected at this station in 2025 and presented in Figure 7.,

Instantaneous discharge measured downstream of the POD at STN-27 in 2025 ranged from a low of ~360 L/s in August to a peak of ~680 L/s in June. Flows declined steadily through the summer and early fall due to increased air temperatures and minimal precipitation, reaching a minimum of ~360 L/s in August, before gradually increasing in late fall to ~550 L/s by December. This late-season increase is likely attributable to increased precipitation, lower air temperatures and the development of ice within the channel, resulting in backwater effects that elevated measured stage and discharge.

Figure 6: 2025 Discharge measurements for Rainbow Creek (STN 27)

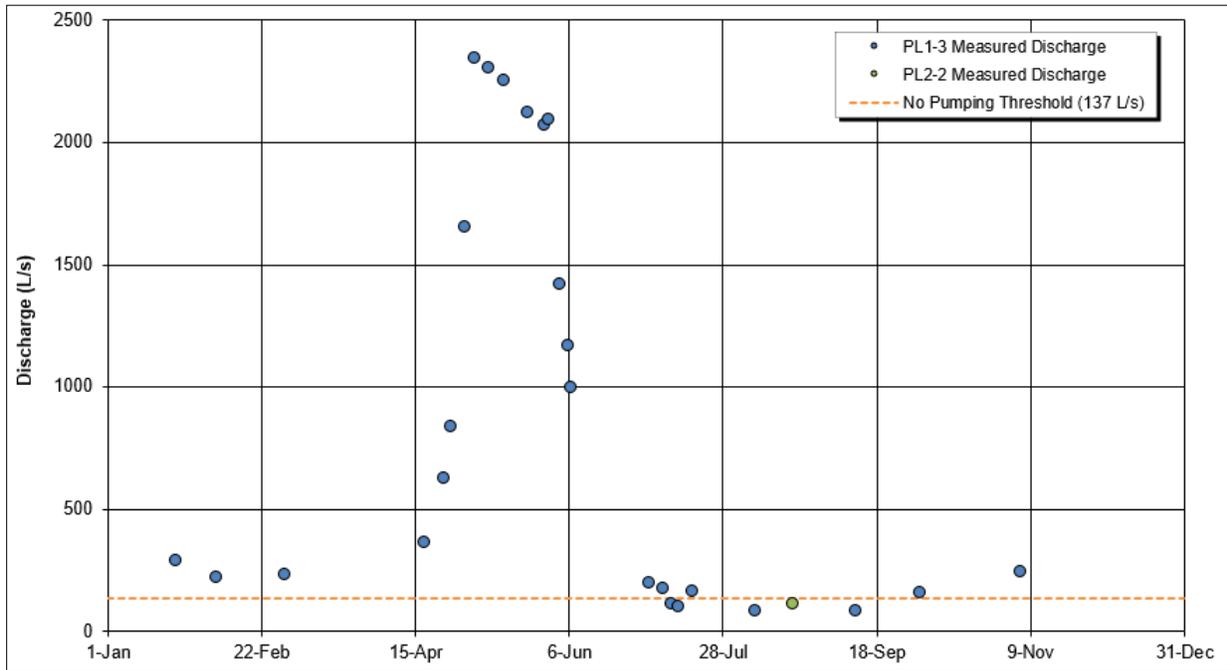


#### 4.1.1.4 Philip Lake 1

Hydrometric monitoring of Philip Lake 1 for surface water withdrawals focused on PL1-3, located at the Philip Lake 1 outlet, and PL2-2, located downstream at the Philip Lake 2 outlet (Figure 1). Flows from PL1-3 are used to inform on allowable flow rates for surface water withdrawals; flows from PL2-2 are used to monitor downstream effects of surface water withdrawals on the Philip Lakes complex.

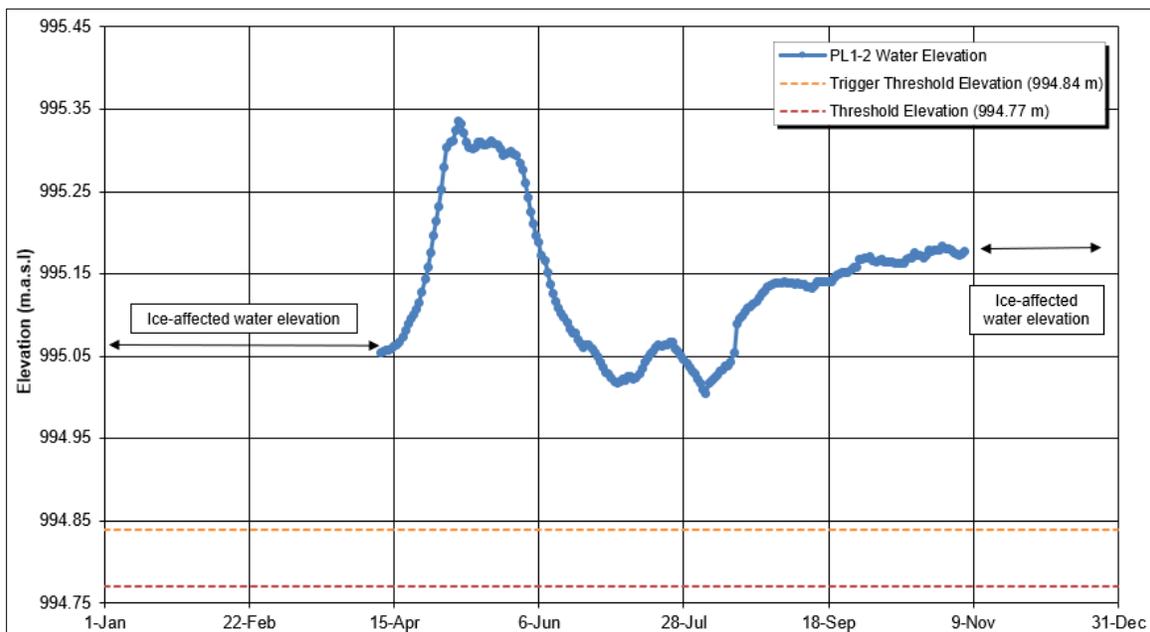
Instantaneous flows measured at PL1-3 in 2025 ranged from ~200 to 290 L/s during the winter period, from January through late March. Flow rates increased with the onset of the freshet in early April, reaching a peak of ~2,300 L/s in early May. From late July to mid-September, flows declined below the no-pumping threshold of 137 L/s (Figure 7), and surface water withdrawal ceased during this period.

Figure 7: 2025 Philip Creek (PL1-3: Philip Lake 1 Outlet, and PL2-2: Philip Lake 2 Outlet) discharge measurements and pumping thresholds



Water level (elevation) monitoring at PL1-2 (Figure 1) in 2025 was conducted in accordance with the guidance outlined in the SWAMMP V7. The water elevations ranged between a low of ~995.01 masl in early August and a high of 995.34 masl in early May, remaining consistently above the trigger water level of 994.84 masl and the threshold water level of 994.77 masl throughout 2025 (Figure 8).

Figure 8: 2025 Philip Lake 1 water levels (PL1-2)



## 4.2 Groundwater Sources

### 4.2.1 TSF Internal Wells

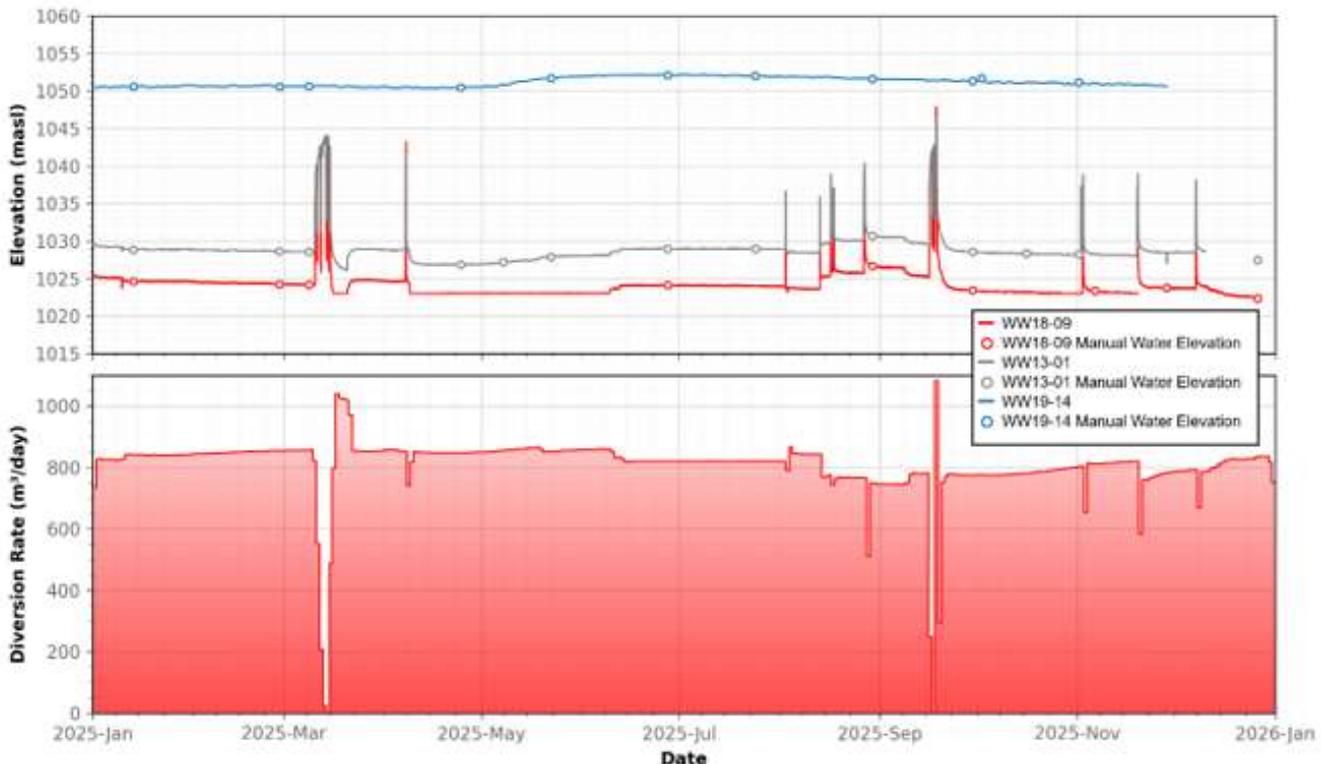
Given that the TSF Internal Wells are located within the confines of the dam, no monitoring relating to the volumetric effects of water withdrawals on the receiving environment was required in 2025.

### 4.2.2 Meadows Creek Well Field

In July 2021, Waterline (2021b) conducted an analysis of the data collected from the Meadows Creek Well Field (Figure 1) between 2018 and 2021, which concluded that pumping from WW18-09 has a negligible effect on flows in Meadows Creek. As such, SWAMMP V6, submitted to WLRS on June 9, 2022, removed the triggers and thresholds for pumping WW18-09 based on Meadows Creek (STN-3A) flows.

Groundwater monitoring was conducted throughout 2025 based on the SWAMMP V7. There was relatively consistent groundwater diversion throughout most of 2025, with an average withdrawal rate of around 800 cubic metres per day ( $m^3/day$ ). The groundwater source demonstrated notable stability despite regular withdrawals, with the upper aquifer water level maintaining remarkable consistency throughout the year. In contrast, lower elevation points exhibited a gradual decline, particularly after September. Several sharp increases in water level elevation coincided with significant declines in water usage, suggesting a highly responsive system (Figure 9).

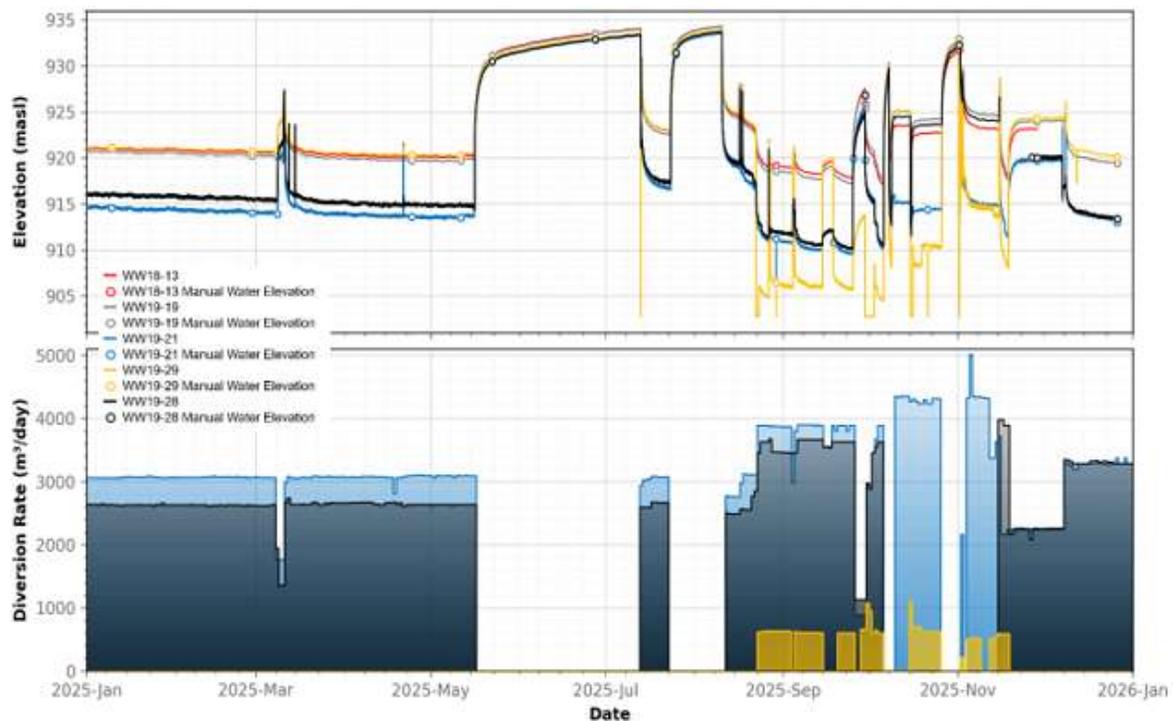
Figure 9: 2025 Meadows Creek Well Field groundwater elevation and water diversion



### 4.2.3 Lower Rainbow Valley Well Field

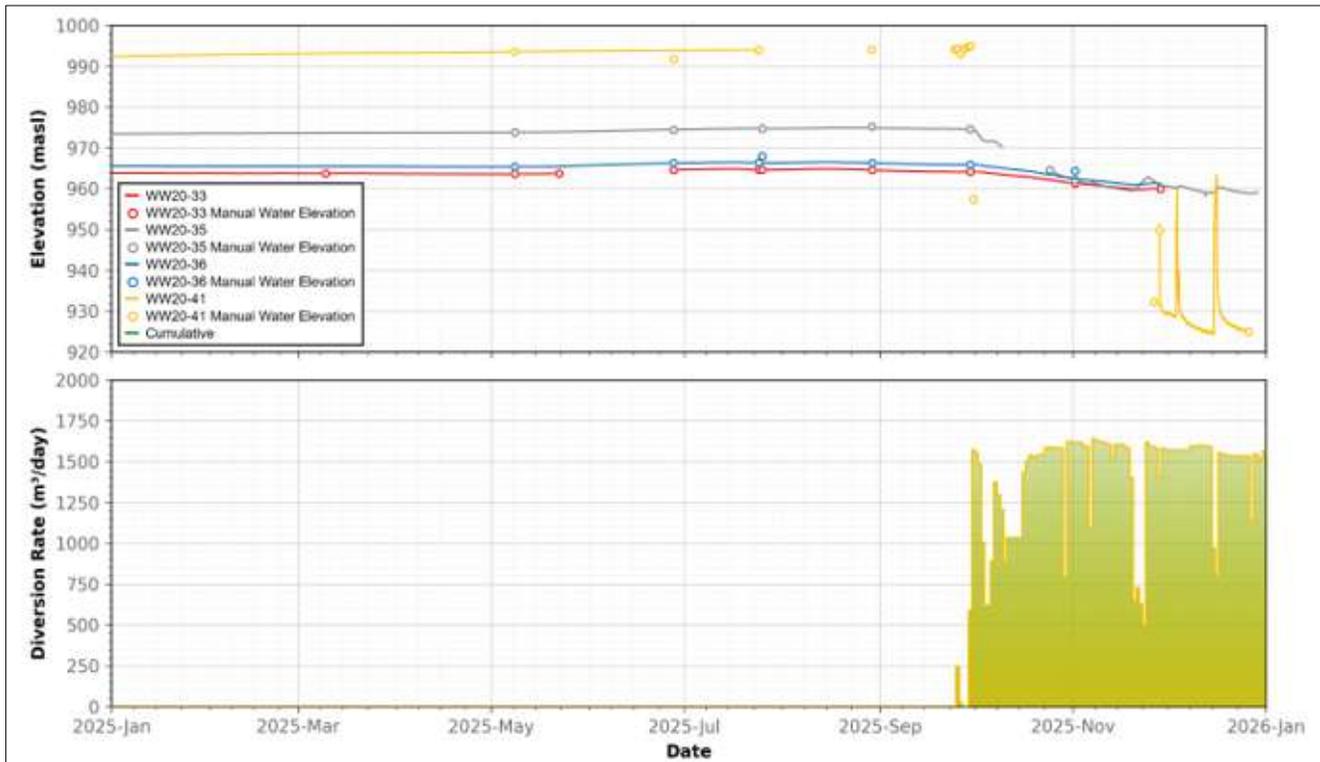
Groundwater monitoring of the LRV Well Field (Figure 1) was conducted throughout 2025 in accordance with the SWAMMP V7. Between January to mid-May, groundwater levels (elevation) declined gradually, ranging from 921 masl to 919 masl for pumping wells WW19-29, WW19-19 and WW18-13; 916 masl to 915 masl for WW19-28; and 914 masl to 913 masl for WW19-21. The gradual water level decline for all pumping wells was followed by a sharp increase in mid-March due to a temporary reduction in groundwater diversion. Pumping ceased from mid-May to mid-July due to internal water management strategy, coinciding with a steady increase in groundwater elevation during this period. As pumping resumed in mid-July, groundwater elevation fluctuated in response, indicating a clear relationship between groundwater levels and groundwater diversion (Figure 10).

Figure 10: 2025 Lower Rainbow Valley (LRV) Well Field groundwater elevation and water diversion



Groundwater levels for monitoring wells WW20-33, WW20-35, WW20-36, WW20-41 remained stable throughout January to October. Once pumping began in October, groundwater levels for all wells began to gradually decline. Sharp increases in groundwater levels coincided with significant drops in water diversion, suggesting a highly responsive system (Figure 11).

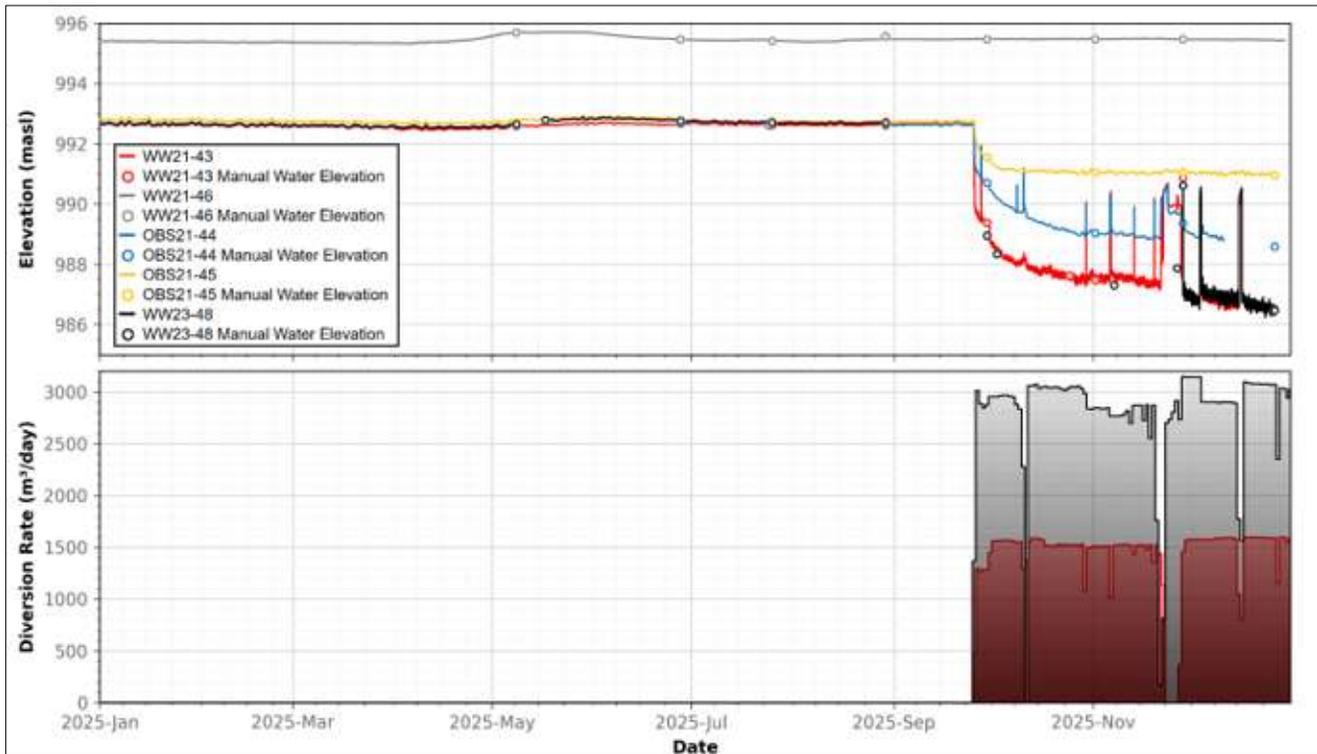
Figure 11: 2025 Lower Rainbow Valley (LRV) Well Field groundwater elevation and water diversion



#### 4.2.4 Philip Well Field

Groundwater monitoring of the Philip Well Field (Figure 1) was conducted throughout 2025 in accordance with the SWAMMP V7. Water levels in the upper aquifer (WW21-46) remained highly consistent throughout the year, averaging an elevation around 995 masl, despite the initiation of pumping activities in October. In contrast, water levels of monitoring points at lower elevations remained stable at approximately 993 masl from January through October, followed by a gradual decline after pumping commenced. Several sharp, short-term increases in groundwater levels coincided with periods of reduced water diversion, indicating a highly responsive groundwater system (Figure 12).

Figure 12: 2025 Philip Well Field groundwater elevation and water diversion



## 5.0 Quality Assurance and Quality Control (QA/QC)

Data gaps associated with the groundwater extraction program largely related to instrumentation malfunction or environmental conditions in 2025, as summarized in Table 5. Efforts are being made to resolve instrumentation issues for the 2026 monitoring year.

Table 5. 2025 Groundwater extraction monitoring program data gaps

Location	Type	Data Collection Error	Date Range Missing
<b>TSF Well Field</b>			
TDW17-2	Pumping Well	Datalogger malfunction	Feb 11 - Dec 31
TDW17-4	Pumping Well	Datalogger malfunction	All
TDW17-6R	Pumping Well	Datalogger malfunction	Jan 1 - Sep 7
TDW18-08b	Pumping Well	Datalogger malfunction	All
TDW18-9R	Pumping Well	Datalogger malfunction	Q4
MW12-04S	Monitoring Well	Datalogger malfunction; Well Frozen	Q1, Q4
MW12-02D	Monitoring Well	Datalogger/direct cable malfunction	Q1
MW12-01S	Monitoring Well	Well Frozen	Q4
MW12-01D	Monitoring Well	Well Frozen	Q4
MW12-11	Monitoring Well	Datalogger malfunction	Q2-Q4
KP91-A4	Monitoring Well	Datalogger/direct cable malfunction	Q2
KP07-19	Monitoring Well	Datalogger/direct malfunction	Q4
<b>Meadows Well Field</b>			
MW18-07a	Monitoring Well	No connection, could not pull logger, could not access well (packer system). Packer to be replaced in 2026	Q3-Q4
MW18-07b	Monitoring Well	No connection, could not pull logger, could not access well (packer system). Packer to be replaced in 2026	Q3-Q4
<b>LRV Well Field</b>			
WW19-26	Monitoring Well	Datalogger malfunction	Q4
WW18-13	Monitoring Well	Well Frozen	Q4
WW20-41	Pumping Well	Datalogger lost in well. Reinstalled in Q4	Q3-Q4



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WW20-35	Monitoring Well	Datalogger malfunction, replaced in Q4	Q4
WW20-36	Monitoring Well	Datalogger/direct cable malfunction	Q4
WW20-33	Monitoring Well	Datalogger malfunction	Q1, Q2
<b>Philip Well Field</b>			
DD24-52	Drive Point Piezometer	Datalogger malfunction	Q2
WW23-48	Pumping Well	Datalogger lost in well. Reinstalled in Q4	Q3-Q4

Notes: Q: Quarter.

## 6.0 Summary and Conclusions

The following conclusions have been summarized based on results of the 2025 (January 1 – December 31) surface and groundwater extraction program at MTM:

1. MTM has achieved the monitoring and reporting requirements outlined in EAC M#09-01 Amendment 9, Condition 4.2.1
2. The total volume of surface water diverted for use under WSA Licence 504634 (Rainbow Creek) in 2025 was 2,875,805 m<sup>3</sup>.
3. The total volume of surface water diverted for use under WSA Licence 504624 (Philip Lake 1) in 2025 was 841,164 m<sup>3</sup>.
4. The total volume of groundwater diverted for use under WSA Licence 501608 (TSF Internal Well Field) in 2025 was 14,305,012 m<sup>3</sup>(93% of this volume is process water)
5. The total volume of groundwater diverted for use under WSA Licence 501608 (Meadows Creek Well Field) in 2025 was 294,848 m<sup>3</sup>.
6. The total volume of groundwater diverted for use under WSA Licence 505251/508053 (Lower Rainbow Valley Well Field) in 2025 was 1,690,940 m<sup>3</sup>.
7. The total volume of groundwater diverted for use under WSA Licence 508154 (Philip Well Field) in 2025 was 417,073 m<sup>3</sup>.

As part of adaptive management, issues contributing to data gaps were identified and being rectified. Mitigation measures included the replacement of faulty data loggers and the decommissioning and redrilling of monitoring wells within the TSF. These improvements were undertaken to support continuous enhancement of the monitoring program.

A detailed technical assessment of groundwater monitoring results will be completed in the annual Groundwater Use Report required under the SWAMMP V7. A detailed technical assessment of surface water quality monitoring results will be completed in the 2025 Annual Monitoring Report: MTM Hydrometric Program, which will be submitted to the applicable government agencies and will also be made available to participating stakeholders including First Nations.

## References

Government of British Columbia (BC Gov), 2016. Water Sustainability Act. SBC 2014, Chapter 15.

Stantec Consulting Ltd. and Waterline Resources Inc. (Stantec and Waterline), 2025. Site-Wide Adaptive Management and Monitoring Plan (Version 7). Prepared for Thompson Creek Metals Company Inc., March 22, 2025.

Waterline Resources Inc. (Waterline), 2024. 2024 Groundwater Use Report. WSA Licence No. 501608. WSA Licence No. 505251. Mount Milligan Mine. March 31, 2025

## Appendix I – Photos

Photo 1: Looking upstream at STN-5A (Rainbow Creek) on October 17, 2025



Photo 2: Looking downstream at STN-5A (Rainbow Creek) on October 17, 2025



Photo 3: Looking upstream at STN-26A (Rainbow Creek) on October 16, 2025



Photo 4: Looking downstream at STN-26A (Rainbow Creek) on October 16, 2025



Photo 5: Looking upstream at STN-27 (Rainbow Creek) on November 21, 2025



Photo 6: Looking downstream at STN-27 (Rainbow Creek) on November 21, 2025



# 2025 Annual MTM Water Usage and Monitoring Report Final

Final Audit Report

2026-01-31

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