

# Blind River GS Monthly Report – May 2023

## Production

Unit #1 (to Town Hall):

RGM: 00.00 kWh

*RGM = Revenue Grade Meter*

Unit #2 (to STP):

RGM: 11,780 kWh

## Downtime

Unit #1 was down for the month.

Unit #2 was offline at the start of the month for 2 days, but as the head level came up we were able to start unit 2 to assist in passing high water. We had a few hours down after a power bump, minimal down time for maintenance, and otherwise ran except for 2 days to maintain compliance.

## Maintenance

Over 80 hours onsite for regular maintenance service, and over 22 hours of on call coverage. A summary of the work completed includes:

- Alarm testing was done on the 1<sup>st</sup>.
- Head level rose enough to run the plant and assist with passing excess water from freshet.
- Throughout the month, we continued to provide live water level updates to TBR via text.
- On the 17<sup>th</sup> we released a stop log with buoys attached from the dam that was jammed in the gain. It has been secured to shore and will be retrieved when the dam is sealed up. MNR was aware as were downstream merchants.
- On the 16<sup>th</sup> we discovered an issue with the mechanical gate and after MNR inspection it was locked out until inspected, corrected, and put back into service.
- On the 18<sup>th</sup> the turbine tripped due to a power bump but was restored as power was back on.
- On the 19<sup>th</sup> we greased the unit 2 generator, pilot bearing, wickets (stay ring and tie rod ends) and packing.
- We continued to take water temp at least 3 times a week per the WMP during April and May.
- Daily checks consisting of daily measurements and records, trash rack cleaning, observations, etc.

## Repair Work

- Dam Deck
  - Mechanical gate to be repaired by MNR to return to service. We have locked out the power supply within the powerhouse.

## Water Management

During this month, the Target Water Level range was from 0.60 to 0.66 and the Compliance Water Level range was from 0.60 to 0.76. We are to stay within these 6cm from April 1<sup>st</sup> to May 31<sup>st</sup>.

We peaked again due to freshet at the beginning of the month but were able to maintain compliance for the remainder.

Figure 1 is a graph of the water level from May 1<sup>st</sup> to May 31<sup>st</sup>.

Figure 2 is the chart with the exact water levels and number of logs out (or equivalent).

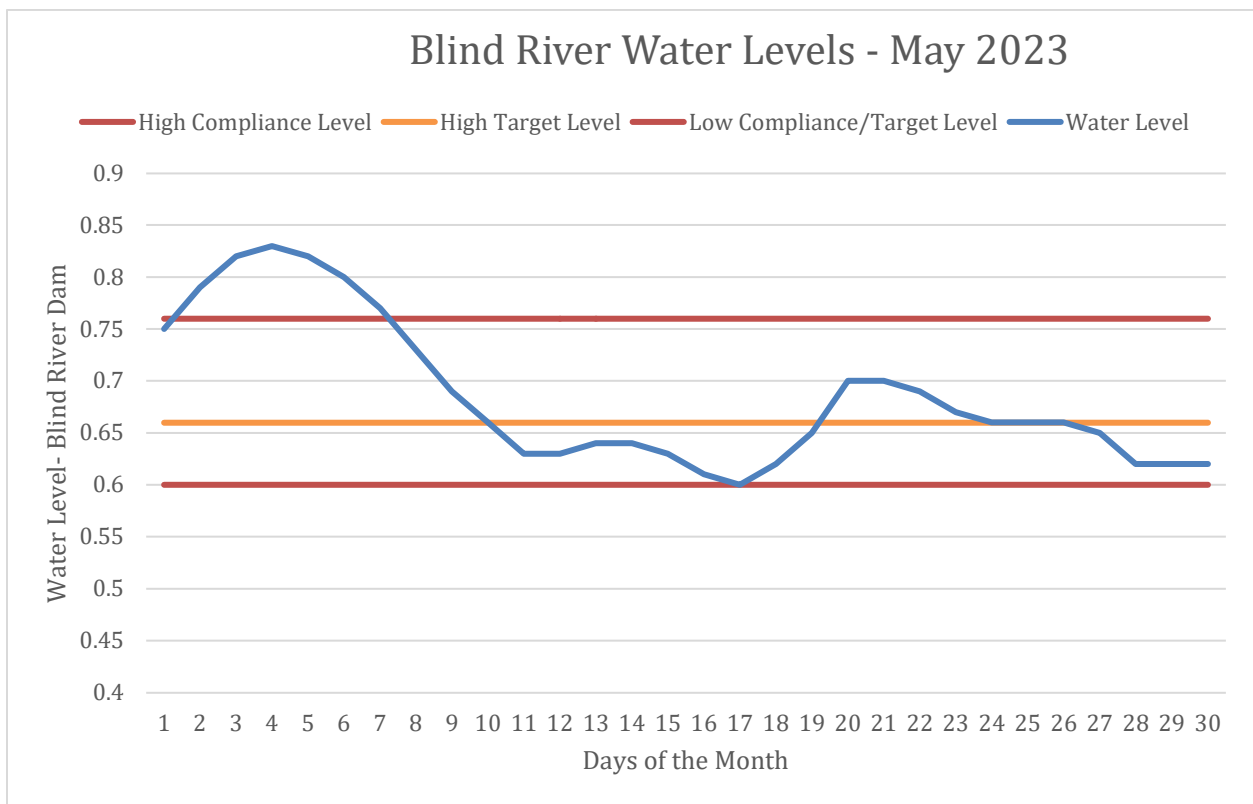


Figure 1: Water Level Graph

<b>Generating Station:</b>	<b>Town Dam</b>			<b>Month:</b>	<b>May</b>	
			WMP Compliance Range:		.60 to .76 mStaff	
<b>Date</b>	<b>Water Level</b>	<b>Ruler</b>	<b>Logs Out &amp; Equivalent Flow</b>	<b>Comments/Actions</b>	<b>Water Temp in Celcius</b>	
May 1, 2023	0.75	557	33			
May 2, 2023	<b>0.79</b>	557	33		5	
May 3, 2023	<b>0.82</b>	557	35	head level up so started turbine to help pass water		
May 4, 2023	<b>0.83</b>	557	35			
May 5, 2023	<b>0.82</b>	557	35		6	
May 6, 2023	<b>0.8</b>	557	35			
May 7, 2023	<b>0.77</b>	557	35		7	
May 8, 2023	0.73	557	35		6	
May 9, 2023	0.69	557	31		4	
May 10, 2023	0.66	557	31			
May 11, 2023	0.63	557	31		4	
May 12, 2023	0.63	557	24			
May 13, 2023	0.64	557	24			
May 14, 2023	<b>0.64</b>	557	24			
May 15, 2023	0.63	557	24			
May 16, 2023	0.61	557	21		5	
May 17, 2023	.59-.60	557	18	Mech Gate offline per MNR	5	

May 18, 2023	0.62	557	15		
May 19, 2023	0.65	557	17		5
May 20, 2023	0.7	557	17		
May 21, 2023	0.7	557	16		
May 22, 2023	0.69	557	16		
May 23, 2023	0.67	557	17		
May 24, 2023	0.66	557	17		
May 25, 2023	0.66	557	12		8
May 26, 2023	0.66	557	12		10
May 27, 2023	0.65	557	12		
May 28, 2023	0.62	557	5		18
May 29, 2023	0.62	557	5		14
May 30, 2023	0.62	557	5		20
May 31, 2023	0.63	557	5	Mech Gate remains offline per MNR	16

Figure 2: Water Levels