

Blind River GS Monthly Report – July 2022

Production

Unit #1 (to Town Hall):

RGM: 00.00 kWh

RGM = Revenue Grade Meter

Unit #2 (to STP):

RGM: 6,373 kWh

Downtime

Unit #1 was down for the month.

Unit #2 was offline for 18 days over the month of July.

Maintenance

Over 25 hours onsite for regular maintenance service, and over 30 hours of on call coverage. A summary of the work completed includes:

- Mechanical gate adjustment and Unit 2 turbine operation.
- ESA deficiency correction completion.
- Updating MNR on gate leakage and leakage under logs closest to gate. Plugged what we could with burlap plug on July 13th – unable to plug mechanical gate leakage at hinge at risk of getting additional debris stuck in it. We anticipate a visit from MNR over the next month to inspect.
- Daily checks consisting of daily measurements and records, trash rack cleaning, observations, etc.
- General cleaning and sanitizing was performed regularly.
- Alarm testing was completed on July 4th.
- Greasing completed on July 8th:
 - Generator 2, due again in 4 wks.
 - Unit 2 Pilot bearing, due again in 4 wks.
 - Adjustments to schedule are made for down time.
- Oil and Grease inventory was completed on July 14th.
- Davit Crane inspection was completed on July 13th by HITE services.
- Branches hanging over powerhouse stairs and entrance were cleared back on July 15th. Will return in fall to clear more over powerhouse and from Motel edge per owner request. The owner of the motel would like to tree to remain as a buffer between the motel and the powerhouse but would appreciate it being trimmed back. The powerhouse eaves were also cleared of debris from tree to maintain drainage and all trimmings were contained and taken offsite for disposal.
- H&S inspection was also completed on July 15th.
- Plants were checked during and after the planned power outage on July 18th.
- Unit 2 was started and stopped based on head level and upstream flow.

Repair Work

Powerhouse:

- Exhaust fan will need to be replaced. Looking into specs and obtaining quotes to work into budget.
- We are looking into replacing bulbs where possible but may have to change out the ballast. Lighting is still adequate, so this will be scheduled when both units are down during the summer.
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Unit #1:

- Engineering company was not able to come in July but will be onsite in August to proceed with headgate work. This will provide us with the calculated headgate weight under hydraulic force and will provide the proper rating and method to repair the headgate anchor to facilitate operation and repairs.

Unit #2:

- None.

Other Issues

On June 23rd we noticed with all logs in the dam, the mechanical gate closed and Huron water level down so much, you can see the hinge leakage. After reviewing historical documents, it appears to have had some leakage since installation, but the leakage may have increased since the beginning. As Huron has been higher over the last few years, it has not been as easy to spot/monitor. From downstream we noticed the front sill under the logs of the bay next to the mechanical gate appears to be missing partially, as the logs appear to overhang and under them is the leakage that was previously investigated. Both of these observations were reported to the MNR. We will plug the gap under the logs with a burlap plug once approved, however we are unable to stop the leakage from the gate as it is from the hinge at the bottom.

Water Management

During this month, the Target Water Level range was from 0.60 to 0.66 and the Compliance Water Level range was also from 0.60 to 0.66. We are to stay within these 6cm from June 1st to September 30th.

We had 9 days where we were out of compliance slightly at the 557. Some of those days were in compliance at the Town Dam and others the Town Dam was over the same amount.

The days were July 13th, 16th to 21st, 23rd and 26th.

All logs were in last month and the gate was used in addition to turbine 2 to manage the water.

Figure 1 is a graph of the water level from July 1st to July 31st

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

Blind River Water Levels - July 2022

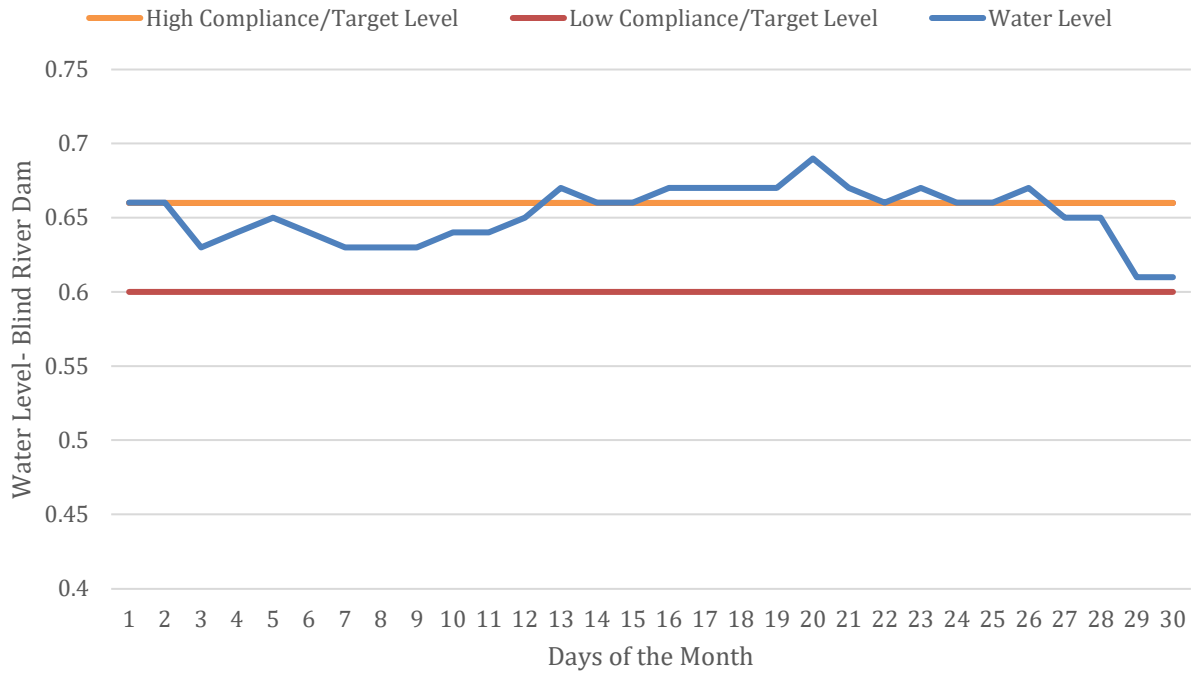


Figure 1: Water Level Graph

2022 MONTHLY WATER LEVEL LOG

Date	Water Level	Ruler	Logs Out & Equivalent Flow	Comments/Actions
Generating Station: Town Dam			Month: July	
			WMP Compliance Range:	.60 to .66 mStaff
July 1, 2022	0.66	557	3	
July 2, 2022	0.66	557	3	
July 3, 2022	0.63	557 & Dam	1	
July 4, 2022	0.64	557	1	60% chance of 10-15mm rain as of 2022-07-01
July 5, 2022	0.65	557	2	60% chance of 2-4mm rain as of 2022-07-05
July 6, 2022	0.64	557	0	
July 7, 2022	0.63	Dam	2	
July 8, 2022	0.63	557	0	
July 9, 2022	0.63	557	0	
July 10, 2022	0.64	557	0	20% chance of up to 5mm rain as of 2022-07-05
July 11, 2022	0.64	557 & Dam	0	60% chance of up to 10mm rain as of 2022-07-05
July 12, 2022	0.65	557 & Dam	0	60% chance of up to 5mm rain as of 2022-07-05
July 13, 2022	0.67	557 & Dam	0	Flow slowing down from upstream. Left as is, as it will come down on its own
July 14, 2022	0.66	Dam	0	Still .67 at 557, but slowly dropping (lower at headpond)
July 15, 2022	0.66	Dam	0	Still .67 at 557
July 16, 2022	0.67	557	0	Just under .67, in comp at dam
July 17, 2022	0.67	557	0	

July 18, 2022	0.67	557	0	Still .67 at 557, but expect it to slowly decline
July 19, 2022	0.67	557	0	40% chance of up to 1mm rain and thunderstorm as of 2022-07-18 70% chance of up to 5mm rain as of 2022-07-15
July 20, 2022	0.69	557	2	90% chance of 10-15mm as of 2022-07-18 80% chance of 20-25mm rain as of 2022-07-15
July 21, 2022	0.67	557	2	No rain forecasted as of 2022-07-18 70% chance of 2-4mm rain as of 2022-07-15
July 22, 2022	0.66	557	0	
July 23, 2022	0.67	557	0	20% chance of up to 5mm as of 2022-07-18
July 24, 2022	0.66	557	0	70% chance of 15-20mm rain as of 2022-07-18
July 25, 2022	0.66	557	0	
July 26, 2022	0.67	557	2	
July 27, 2022	0.65	557	2	
July 28, 2022	0.65	557	2	
July 29, 2022	0.61	557	0	
July 30, 2022	0.61	557	0	
July 31, 2022	0.61	557	0	

Figure 2: Water Levels