

# Blind River GS Monthly Report – September 2022

## Production

Unit #1 (to Town Hall):

RGM: 00.00 kWh

*RGM = Revenue Grade Meter*

Unit #2 (to STP):

RGM: 6,153 kWh

## Downtime

Unit #1 was down for the month.

Unit #2 was offline for 20 days over the month of September.

## Maintenance

Over 20 hours onsite for regular maintenance service, and over 35 hours of on call coverage. A summary of the work completed includes:

- Daily checks consisting of daily measurements and records, trash rack cleaning, observations, etc.
- Mechanical gate adjustments were made.
- General cleaning and sanitizing was performed regularly.
- Monitoring leakage.
- Gutters were cleared on September 16<sup>th</sup>.
- Greasing not completed as site down in August.
- Pulled weeds from powerhouse roof on August 11<sup>th</sup>.
- Site inspection where the following was noted for next year:
  - Railings require painting
  - Headgates to be removed, sanded and painted after anchors are repaired
  - Powerhouse roof patio stones to be removed and replaced
  - Request approval from MNR to paint the motor and cable boxes for the mechanical gate, and to replace the electrical cabinet for same.
  - The excess leakage during low water is unavoidable due to issues in bay 4 and bay 5 (mech gate). Water is coming from upstream, however given the forecast unsure how it will impact levels here.

## Repair Work

Powerhouse:

- Exhaust fan will need to be replaced. Looking into specs and obtaining quotes to work into budget.
- We have been making an effort to clear debris from the eaves on a regular basis, but noticed a leak again in the powerhouse. Next summer, we will have to inspect the membrane when the patio stones are all removed.

#### Headgates:

- Over the month of September NSPG corresponded with the engineers for them to provide us with a report from their August 9<sup>th</sup> visit. On September 15<sup>th</sup>, we were provided the report. On September 25<sup>th</sup> we received the quote for the gantry. We are still waiting for the gate anchor drawing so we can repair it but will look to add the gantry and hoist work to next year's budget. The design would take two to three weeks if the work was approved. From there we would need to add material and labour. NSPG will look into additional quotes to determine if there is a more cost-effective solution.

#### Unit #1:

- Waiting maintenance once headgate repaired.

#### Unit #2:

- After starting unit 2 on the 20<sup>th</sup>, it tripped after a power bump. The plant was checked remotely, and all was ok. On attending the site, after an inspection to confirm the same, unit 2 was restarted.

## Other Issues

On June 23<sup>rd</sup> 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 1<sup>st</sup> to September 30<sup>th</sup>.

We had 11 days where we were out of compliance in September. We began the month with low water and took until September 11<sup>th</sup> until we recovered and returned to compliance. We did not drop more than 1-2cm below compliance.

The turbine was used to manage the water level, except for a short period of time where we needed to allow a little excess water out of the mechanical gate.

Figure 1 is a graph of the water level from September 1<sup>st</sup> to September 30<sup>th</sup>

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

# Blind River Water Levels - September 2022

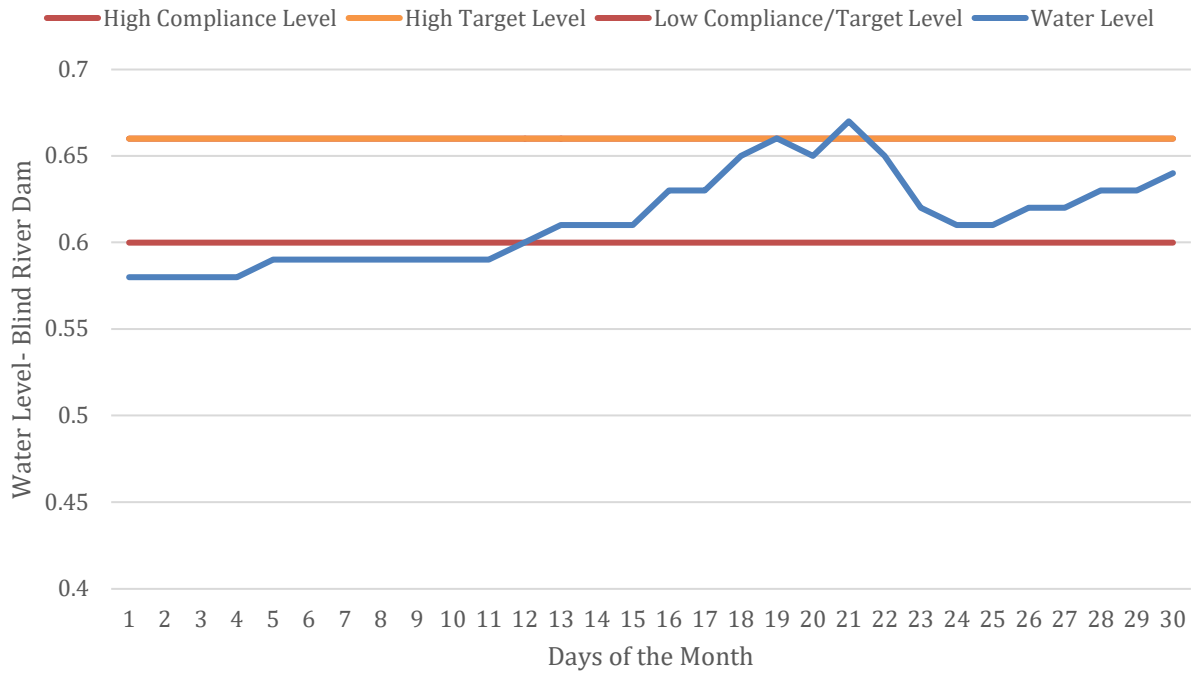


Figure 1: Water Level Graph

## 2022 MONTHLY WATER LEVEL LOG

<b>Generating Station:</b>	<b>Town Dam</b>		<b>Month:</b>	<b>September</b>
			WMP Compliance Range:	.60 to .66 mStaff
<b>Date</b>	<b>Water Level</b>	<b>Ruler</b>	<b>Logs Out &amp; Equivalent Flow</b>	<b>Comments/Actions</b>
September 1, 2022	<b>0.58</b>	557	0	
September 2, 2022	<b>0.58</b>	557	0	
September 3, 2022	<b>0.58</b>	557	0	
September 4, 2022	<b>0.58</b>	557	0	
September 5, 2022	<b>0.59</b>	557	0	
September 6, 2022	<b>0.59</b>	Dam	0	
September 7, 2022	<b>0.59</b>	557	0	
September 8, 2022	<b>0.59</b>	557	0	
September 9, 2022	<b>0.59</b>	557	0	
September 10, 2022	<b>0.59</b>	557	0	
September 11, 2022	<b>0.59</b>	557	0	
September 12, 2022	0.6	Dam	0	
September 13, 2022	0.61	Dam	0	
September 14, 2022	0.61	557	0	
September 15, 2022	0.61	557	0	

September 16, 2022	0.63	557	0	
September 17, 2022	0.63	Dam	0	
September 18, 2022	0.65	Dam	2	
September 19, 2022	0.66	557	2	
September 20, 2022	0.65	Dam	3	over a little at 557
September 21, 2022	0.67	557	3	In compliance at Dam.
September 22, 2022	0.65	Dam and 557	3	
September 23, 2022	0.62	Dam	3	
September 24, 2022	0.61	557	3	
September 25, 2022	0.61	557	3	
September 26, 2022	0.62	557	1	
September 27, 2022	0.62	557	1	
September 28, 2022	0.63	557	2	
September 29, 2022	0.63	557	2	
September 30, 2022	0.64	557	0	

Figure 2: Water Levels