



December 8, 2021

Blind River GS Monthly Report – October 2021

Production

Unit #1 (to Town Hall):

RGM: 0.00 kWh

RGM = Revenue Grade Meter

Unit #2 (to STP):

RGM: 5,803 kWh

Downtime

Unit #1:

- remained down for the month.

Unit #2:

- was down for 22 days (Oct 9th to 11th and from Oct. 13th to Oct. 31st). Ran Oct 12th and stopped for a breakdown.

Maintenance

- 138.25 hours onsite to complete regular service and repair work. A summary of the work completed includes: headgate operation, mechanical gate operation, turbine disassembly (details below) and daily checks that include level recording, greasing when prescribed, alarm testing, and trash rack cleaning.
- Monthly Alarm testing was completed on October 4th. Signals were received properly. One water level sensor is broken and we have applied a temporary fix until we can have it remedied in the new year.
- Health & Safety inspection was completed on October 19th.
- General cleaning was performed regularly, including disinfecting of high touch points and shared equipment and tools.

Repair Work

Unit #1:

- After shutting down the unit for excess packing leakage, the packing had been tightened up on unit 1, so the headgate was raised to test it before returning it to operation. The packing still showed far too much leakage. We were already tighter than ideal given the amount of time on the packing, so we lowered and resealed the headgate, drained the turbine again and completely opened up the packing gland to complete an inspection. We found that there were two small burrs on the shaft that had been shredding the packing. As it is in a difficult area to access, it took time and manual buffing to smooth out the burrs. There was also a damaged flange stud on the bottom that was removed and replaced with a newly fabricated one. New packing was installed, the stay ring and

packing gland greased, belt was aligned, and generator confirmed level. Unit 1 was ready to test packing at Oct. 31, once headgate was re-opened. Unit 2 remains offline while.

- This work will be completed under our regular service charge.

Unit #2:

- On October 12th, unit #2 stopped abruptly as the shaft had moved. After dropping the headgate and opening up the unit, we confirmed that the runner assembly had sustained damage and needed to be sent away to CHC for repair. They had completed this work for the town before and were able to provide a quote to repair the unit quickly. The quote was sent to the Town for approval. On October 26th, we received confirmation from the Town to proceed with the repair work and CHC was notified of the authorization. CHC confirmed that they would now need to take longer to turn around the work than originally quoted (their schedule had filled up), however, we proceeded with the runner assembly removal work, and scheduled a shipment pickup.

This work is billable time. 10 hours of billable time will be included in the O&M service work for this month, as noted last month.

Ongoing Items

As noted in previous reports there is a significant leak under the logs in the bay closest to the mechanical gate. The MNR was out to inspect and advised us to seal the logs better until we can pull all of the logs in the spring. MNR secured the item they believe is causing the leak and want us to pull it as we pull the logs in the spring.

If the water levels allow this to occur sooner this fall, we may do so.

Also noted in previous reports, there is a leak in the mechanical gate. The MNR was out to inspect the gate and they advised us that the obstruction appears to be a rock and that it should clear over time (expected to clear with freshet when gate is opened all the way).

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 levels from October 1st to October 31st.

We maintained compliance for the month of October and did not receive any complaints regarding this site.

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

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

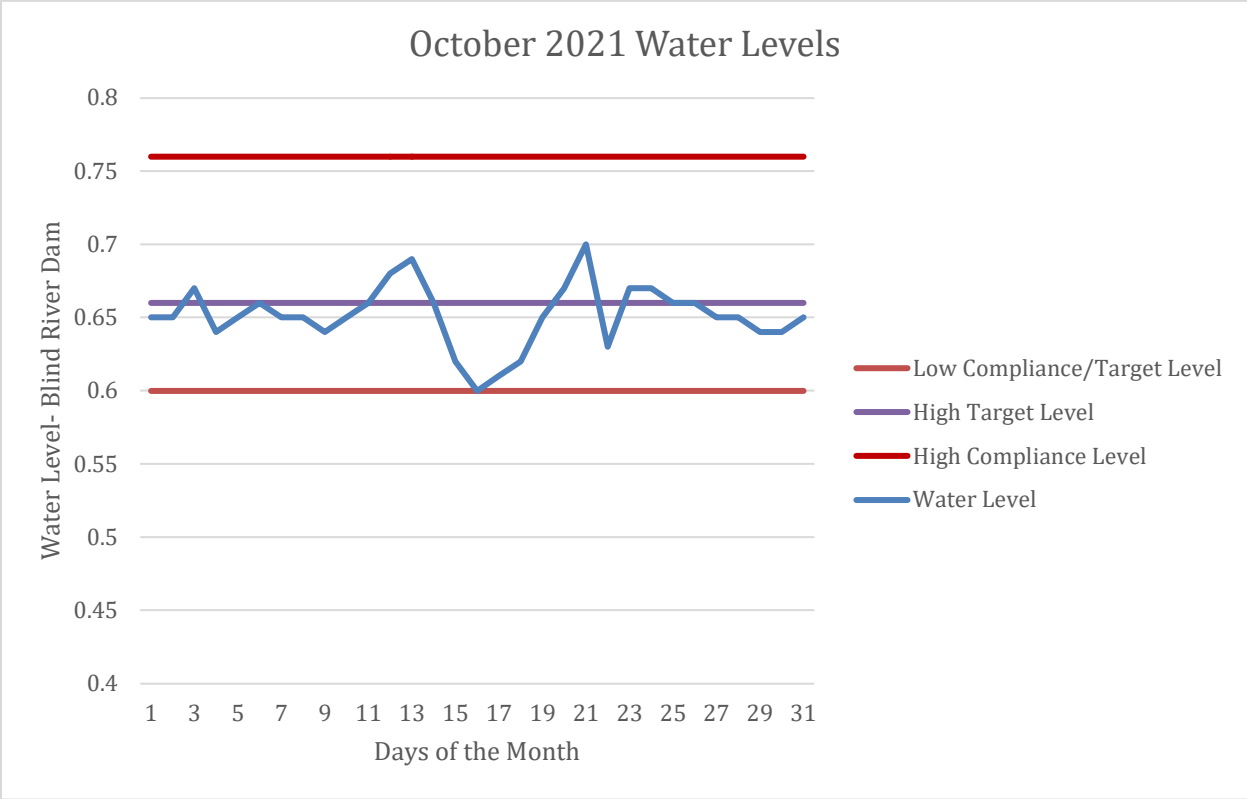


Figure 1: Water Level Graph

2021 MONTHLY WATER LEVEL LOG

Generating Station:	Town Dam			Month:	October
		WMP Compliance Range:		.60 to .76 mStaff	
Date	Water Level	Ruler	Logs Out & Equivalent Flow	Comments/Actions	
October 1, 2021	0.65	Dam	4		
October 2, 2021	0.65	557	5		
October 3, 2021	0.67	557	5		
October 4, 2021	0.64	Dam	6		
October 5, 2021	0.65	557	7		
October 6, 2021	0.66	557	5.5		
October 7, 2021	0.65	557	5.5	.6 at Dam	
October 8, 2021	0.65	557	5.5		
October 9, 2021	0.64	557	1		
October 10, 2021	0.65	557	1		
October 11, 2021	0.66	557	1		
October 12, 2021	0.68	557	4		
October 13, 2021	0.69	557	3		
October 14, 2021	0.66	557	3		
October 15, 2021	0.62	557	3		
October 16, 2021	0.6	557	2		
October 17, 2021	0.61	557	2		

October 18, 2021	0.62	557	2	
October 19, 2021	0.65	557	2	
October 20, 2021	0.67	557	2	
October 21, 2021	0.7	557	3.5	
October 22, 2021	0.63	Dam	2	
October 23, 2021	0.67	557	2	
October 24, 2021	0.67	557	2	
October 25, 2021	0.66	557	2	
October 26, 2021	0.66	557	2	
October 27, 2021	0.65	557	2	
October 28, 2021	0.65	557	2	
October 29, 2021	0.64	557	2	
October 30, 2021	0.64	557	2	
October 31, 2021	0.65	557	2	

Figure 2: Water Level Chart