

## **MADAWASKA RIVER – WATER LEVELS & FLOWS**

### **CURRENT STRATEGY**

**DATE: November 10, 2017**

Levels and flows are expected to remain stable or decline slowly. Fall amphibian drawdown will begin early next week at Calabogie and Stewartville. Pass inflow at all other sites on a daily or weekly basis.

<b>BARK LAKE</b>	<b>Observed Data</b>							<b>Weekly Plan</b>
	<b>Nov-3</b>	<b>Nov-4</b>	<b>Nov-5</b>	<b>Nov-6</b>	<b>Nov-7</b>	<b>Nov-8</b>	<b>Nov-9</b>	
Min. Level (m)	313.44	313.45	N/A	N/A	N/A	313.57	313.58	313.20
Max. Level (m)	313.47	313.49	N/A	N/A	N/A	313.60	313.65	313.90
Avg. Flow (m <sup>3</sup> /s)	27.3	27.4	27.4	27.6	27.7	27.8	27.9	28-55
<b>Comments:</b>								
The normal operating range is 304.70 to 313.94 m. The 3-day average inflow is 46 m <sup>3</sup> /s. The discharge is currently 27 m <sup>3</sup> /s.								

<b>KAMANISKEG LAKE (PALMER RAPIDS DAM)</b>	<b>Observed Data</b>							<b>Weekly Plan</b>
	<b>Nov-3</b>	<b>Nov-4</b>	<b>Nov-5</b>	<b>Nov-6</b>	<b>Nov-7</b>	<b>Nov-8</b>	<b>Nov-9</b>	
Upper Gauge Min. Level (m)	282.84	282.82	282.82	282.84	282.86	282.87	282.89	282.75
Upper Gauge Max. Level (m)	282.87	282.85	282.84	282.87	282.87	282.89	282.94	283.00
Barry's Bay Min. Level (m)	282.93	282.91	282.92	282.93	282.94	282.96	282.98	282.85
Barry's Bay Max. Level (m)	282.95	282.93	282.95	282.95	282.96	282.98	283.01	283.20
Avg. Flow (m <sup>3</sup> /s)	67.7	71.6	71.8	73.0	73.5	74.1	74.9	75-100
<b>Comments:</b>								
The normal operating range is 282.24 m to 283.46 m. The flow from Kamanisseg Lake dam (Palmer Rapids) was increased today from 75 to 90 m <sup>3</sup> /s.								

<b>MOUNTAIN CHUTE GS</b>	<b>Observed Data</b>							<b>Weekly Plan</b>
	<b>Nov-3</b>	<b>Nov-4</b>	<b>Nov-5</b>	<b>Nov-6</b>	<b>Nov-7</b>	<b>Nov-8</b>	<b>Nov-9</b>	
Min. Level (m)	247.95	247.94	247.98	247.96	247.94	247.95	247.97	247.70
Max. Level (m)	248.10	248.03	248.11	248.12	248.07	248.06	248.05	248.40
Station Operation (hr/day)	17	13	12	14	15	16	11	8-20
Avg. Flow (m <sup>3</sup> /s)	136	109	109	131	124	118	78	60-160
<b>Comments:</b> The normal operating range is 243.80 to 248.40 m. Expect daily water level fluctuations of up to 20 cm. The 3-day average inflow is 30 m <sup>3</sup> /s.								

<b>BARRETT CHUTE GS</b>	<b>Observed Data</b>							<b>Weekly Plan</b>
	<b>Nov-3</b>	<b>Nov-4</b>	<b>Nov-5</b>	<b>Nov-6</b>	<b>Nov-7</b>	<b>Nov-8</b>	<b>Nov-9</b>	
Min. Level (m)	200.81	200.84	200.83	200.75	200.80	200.75	200.80	200.70
Max. Level (m)	200.89	200.92	200.92	200.91	200.89	200.90	200.96	201.06
Station Operation (hr/day)	16	16	13	16	15	14	14	8-20
Avg. Flow (m <sup>3</sup> /s)	125	106	94	122	110	94	74	60-160
<b>Comments:</b> The normal operating range is 198.73 to 201.17 m. Expect daily water level fluctuations of up to 20 cm.								

<b>CALABOGIE GS</b>	<b>Observed Data</b>							<b>Weekly Plan</b>
	<b>Nov-3</b>	<b>Nov-4</b>	<b>Nov-5</b>	<b>Nov-6</b>	<b>Nov-7</b>	<b>Nov-8</b>	<b>Nov-9</b>	
Min. Level (m)	153.80	153.82	153.75	153.77	153.76	153.80	153.79	153.60
Max. Level (m)	154.02	154.01	154.03	153.98	154.03	153.99	153.94	154.10
Station Operation (hr/day)	0	11	5	14	19	24	24	24
Avg. Flow (m <sup>3</sup> /s)	160	136	127	154	133	135	119	60-170
<b>Comments:</b> The normal operating range is 153.56 to 154.10 m. Expect water level to decline by the end of the week for the fall amphibian drawdown.								

<b>STEWARTVILLE GS</b>	<b>Observed Data</b>							<b>Weekly Plan</b>
	<b>Nov-3</b>	<b>Nov-4</b>	<b>Nov-5</b>	<b>Nov-6</b>	<b>Nov-7</b>	<b>Nov-8</b>	<b>Nov-9</b>	
Min. Level (m)	144.27	144.21	144.08	144.04	144.16	144.17	144.18	143.55
Max. Level (m)	144.76	144.70	144.73	144.50	144.69	144.62	144.74	144.78
Station Operation (hr/day)	22	24	24	24	21	21	19	14-24
Avg. Flow (m <sup>3</sup> /s)	168	141	139	158	140	127	118	60-180
<b>Comments:</b> The normal operating range is 143.50 to 144.78 m. Expect water level to decline by the end of the week for the fall amphibian drawdown.								

ARNPRIOR GS	Observed Data							Weekly Plan
	Nov-3	Nov-4	Nov-5	Nov-6	Nov-7	Nov-8	Nov-9	
Min. Level (m)	98.82	98.86	98.86	98.87	98.83	98.84	98.88	98.76
Max. Level (m)	98.96	98.93	98.94	98.94	98.94	98.97	98.96	99.00
Station Operation (hr/day)	20	18	17	20	17	16	15	6-20
Avg. Flow (m <sup>3</sup> /s)	198	157	148	183	148	140	131	60-200
<b>Comments:</b> The normal operating range is 98.76 to 99.06 m. Expect daily water level fluctuations of up to 20 cm.								

**Note:** Generating Station (GS) Maximum and Minimum levels are taken from calculated average hourly levels based on minute resolution data.

**For further information please contact**

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