

MADAWASKA RIVER – WATER LEVELS & FLOWS

CURRENT STRATEGY

DATE: September 22, 2017

Levels and flows are expected to remain stable or decline slightly. Pass inflow at all sites on a daily or weekly basis.

BARK LAKE	Observed Data							Weekly Plan
	Sep-15	Sep-16	Sep-17	Sep-18	Sep-19	Sep-20	Sep-21	
Min. Level (m)	313.73	313.73	313.73	313.72	313.73	313.73	313.72	313.62
Max. Level (m)	313.74	313.74	313.74	313.74	313.74	313.74	313.74	313.90
Avg. Flow (m ³ /s)	28.5	28.5	28.5	28.4	28.4	28.4	26.6	15-28
Comments:								
The normal operating range is 304.70 to 313.94 m. The summer minimum is 313.62 m. The 3-day average inflow is 26 m ³ /s. The discharge is currently 25 m ³ /s.								

KAMANISKEG LAKE (PALMER RAPIDS DAM)	Observed Data							Weekly Plan
	Sep-15	Sep-16	Sep-17	Sep-18	Sep-19	Sep-20	Sep-21	
Upper Gauge Min. Level (m)	282.90	282.90	282.90	282.90	282.91	282.91	282.91	282.80
Upper Gauge Max. Level (m)	282.90	282.91	282.91	282.92	282.92	282.92	282.92	283.00
Barry's Bay Min. Level (m)	282.98	282.99	283.00	283.00	282.99	282.99	282.99	282.91
Barry's Bay Max. Level (m)	282.99	283.00	283.00	283.00	283.00	283.00	283.00	283.09
Avg. Flow (m ³ /s)	40.7	40.8	40.9	40.9	41.2	41.1	38.1	25-40
Comments:								
The normal operating range is 282.24 m to 283.46 m. The summer operating range is 282.91 to 283.09 m. The flow from Kamanisgeg Lake dam (Palmer Rapids) is currently 34 m ³ /s.								

MOUNTAIN CHUTE GS	Observed Data							Weekly Plan
	Sep-15	Sep-16	Sep-17	Sep-18	Sep-19	Sep-20	Sep-21	
Min. Level (m)	248.03	248.05	248.13	248.19	248.15	248.11	248.06	248.00
Max. Level (m)	248.12	248.13	248.21	248.28	248.26	248.23	248.19	248.30
Station Operation (hr/day)	8	2	2	7	8	6	9	2-13
Avg. Flow (m ³ /s)	58	14	14	50	58	58	66	10-90
Comments: The normal operating range is 243.80 to 248.40 m. The summer minimum is 248.00 m when inflow is less than 70 m ³ /s. Expect daily water level fluctuations of up to 15 cm. The 3-day average inflow is 45 m ³ /s.								

BARRETT CHUTE GS	Observed Data							Weekly Plan
	Sep-15	Sep-16	Sep-17	Sep-18	Sep-19	Sep-20	Sep-21	
Min. Level (m)	200.78	200.80	200.83	200.75	200.81	200.81	200.80	200.70
Max. Level (m)	200.88	200.88	200.87	200.85	200.88	200.89	200.89	201.06
Station Operation (hr/day)	8	2	2	11	8	7	10	2-14
Avg. Flow (m ³ /s)	51	14	14	53	47	54	60	10-90
Comments: The normal operating range is 198.73 to 201.17 m. The summer minimum is 200.70 m. Expect daily water level fluctuations of up to 15 cm.								

CALABOGIE GS	Observed Data							Weekly Plan
	Sep-15	Sep-16	Sep-17	Sep-18	Sep-19	Sep-20	Sep-21	
Min. Level (m)	153.84	153.92	153.88	153.83	153.83	153.81	153.82	153.80
Max. Level (m)	153.95	153.98	153.95	153.96	153.99	154.01	154.02	154.10
Station Operation (hr/day)	24	24	24	24	0	0	0	0
Avg. Flow (m ³ /s)	42	15	10	54	39	58	57	10-90
Comments: The normal operating range is 153.56 to 154.10 m. The summer minimum is 153.80 m. Expect daily water level fluctuations of up to 20 cm. Station is on annual maintenance outage.								

STEWARTVILLE GS	Observed Data							Weekly Plan
	Sep-15	Sep-16	Sep-17	Sep-18	Sep-19	Sep-20	Sep-21	
Min. Level (m)	144.53	144.52	144.53	144.52	144.57	144.60	144.64	144.48
Max. Level (m)	144.72	144.60	144.61	144.64	144.69	144.74	144.73	144.78
Station Operation (hr/day)	17	9	7	17	14	13	16	3-18
Avg. Flow (m ³ /s)	53	19	15	51	40	59	60	10-90
Comments: The normal operating range is 143.50 to 144.78 m. The summer minimum is 144.48 m. Expect daily water level fluctuations of up to 30 cm.								

ARNPRIOR GS	Observed Data							Weekly Plan
	Sep-15	Sep-16	Sep-17	Sep-18	Sep-19	Sep-20	Sep-21	
Min. Level (m)	98.83	98.83	98.81	98.80	98.83	98.83	98.83	98.76
Max. Level (m)	98.91	98.89	98.92	98.91	98.93	98.91	98.90	99.00
Station Operation (hr/day)	6	2	3	5	6	7	7	1-12
Avg. Flow (m ³ /s)	55	19	27	44	53	62	61	10-100
Comments: 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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