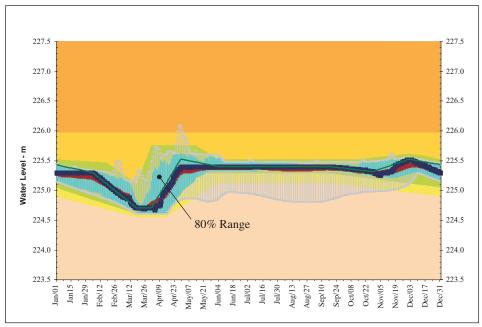
## 11.4.3 Lake Muskoka

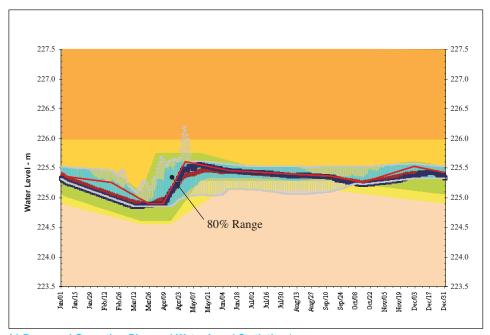
The proposed plan is compared to the present operating plan in Table 11.4.3 and Figure 11.4.3. The proposed plan decreases the extent of the TOL, as well as the lower limit of the NOZ for the fall period. It is anticipated that a similar number of dam operations will be required to achieve the proposed water levels and flow regime.

Table 11.4.3				
Lake Muskoka				
	Operating	Present	Proposed	
Component	Characteristics	Plan	Plan	Comments
Spring Water	Upper NOZ (m)	225.75	225.75	A slightly higher spring
Level (freshet	Lower NOZ (m)	224.6 – 225.28	224.6 – 225.28	high water level, followed
to May 30)	TOL (m)	225.52 - 225.4	225.6 - 225.48	by a gradual summer
	Peak Date*	April 29	May 1	drawdown to a target
	TOL Change	0.12	0.12	elevation approximately
	WL Direction	Down	Down	0.05 m lower.
Summer Water	Upper NOZ (m)	225.75 – 225.52	225.75 – 225.52	
Level (June 1 to	Lower NOZ (m)	225.28	225.28	
Sept 15)	TOL (m)	225.4	225.48 – 225.35	
	TOL Change	0	0.13	
	WL Direction	-	Down	
Fall Water	Upper NOZ (m)	225.52 – 225.61	225.52 – 225.61	Drawdown to 0.06 m
Level (Sept 16	Lower NOZ (m)	225.28 – 225.12	225.28 – 225.12	lower October 15 level for
to Nov 30)	TOL (m)	225.4 – 225.31	225.35 – 225.25	lake trout spawning;
	TOL Change (m)	0.09	0.1	followed by a natural rise
	WL Direction	Down, then	Down, then	to the same December 1
		natural rise to	natural rise to	elevation prior to the
		225.52 by Dec 1	225.52 by Dec 1	winter drawdown.
Winter Water	Upper NOZ (m)	225.61 – 225.1	225.61 - 225.1	Slow decline in over-
Level (Dec 1 to	Lower NOZ (m)	225.12 - 224.6	225.12 – 224.6	winter level to slightly
March 15)	TOL (m)	225.52 - 224.7	225.52 - 224.9	higher (0.2 m) winter
	TOL Change (m)	0.82	0.62	target elevation.
	WL Direction	Down	Down	
Downstream	Planned flow	6 m <sup>3</sup> /s summer,	6 m <sup>3</sup> /s summer,	Higher summer flow,
River Reach	release	0.82 m, Dec 1 to	0.62 m, Dec 1 to	slightly more fall
and Lake		Mar 15	Mar 15	drawdown (September 15
Outflow	Median Wkly Flow	2	2	to October 15) and less
Characteristics	- Summer	$29.66 \text{ m}^3/\text{s}$	$31.25 \text{ m}^3/\text{s}$	winter drawdown.
	- Winter	$84.84 \text{ m}^3/\text{s}$	$88.08 \text{ m}^3/\text{s}$	
	Minimum Daily	$7.34 \text{ m}^3/\text{s}$	$10.16 \text{ m}^3/\text{s}$	
	Flow (7-d average)	2	2	
	Maximum Daily	$299.79 \text{ m}^3/\text{s}$	$309.57 \text{ m}^3/\text{s}$	
	Flow (50-yr			
	average)	2	2	
	7Q2 (2-yr min)	$5.0 \text{ m}^{3}/\text{s}$	$7.78 \text{ m}^3/\text{s}$	
	7Q10 (10-yr min)	$3.0 \text{ m}^3/\text{s}$	$3.0 \text{ m}^3/\text{s}$	

## Lake Muskoka / Burgess GS



## a) Existing Operating Plan and Water Level Statistics \*



b) Proposed Operating Plan and Water Level Statistics \*

