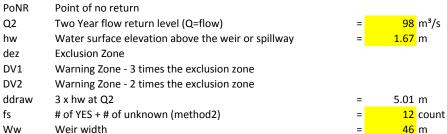
Point of No Return Calculations

For Bala Falls North Dam, Accounting for Proposed Generating Station Flow, Remote Operation, and Rescue Restricted





Method 1 - Point of No Return (dez1)

Used where waterflow spans the entire width of the river, and is not notched

dez1= 1/2PoNR dez1= 29.34132 m

Method 2 - Drawdown distance (dez2)

Λ	-	_	٠.		_
н	п	3	v	•	Н

	1 Is the structure obscured or difficult to see from upstream (low head dam, bend in river vegetation??)	1	
	2 Does the river constrict by more than 1/2 the river width within 5 times the river width upstream?	1	
	3 Do powered recreational vessels use the waterway?	1	
	4 Do unpowered vessels use the waterway?	1	
	5 Do commercial vessels use the waterway?	1	
	6 Are there entry points to the waterway (boat launch, porrtage route, parking lots) within 1 river width of the structure?	1	
	7 Is the flow such that a small vessel or persion is likely to be drawn into the hazardous zone?	1	
	8 Is the prevailing wind in the direction of water flow?	0	
	9 Will impingement on the dam or passing over the dam likely result in capsize, injury or death?	1	
10 Have any accident, near accidents, or incidents occurred at the site?		0	
11 Do vessels use the area a night?		1	
12 Hare there any hazards, obstructions or instream structures in the vicinity?		1	
13 Is any part of the dam operation done remotely?		1	
14 Is access to emergency rescue restricted (remote location, bank vegetation, steep slopes?)		1	

dez2= ddraw x fs **dez2= 60.12 m**

Method 3 - Spillway Width (dez3)

dez3= Ww **dez3= 46** m

GREATEST DISTANCE = 60 m

BOOM CURRENTLY ABOUT 50m FROM DAM

Mitchell Shnier 20150922