

Big Blake Lake Dam Committee

Dam Management Update

5/15/2021

Big Blake Lake Dam



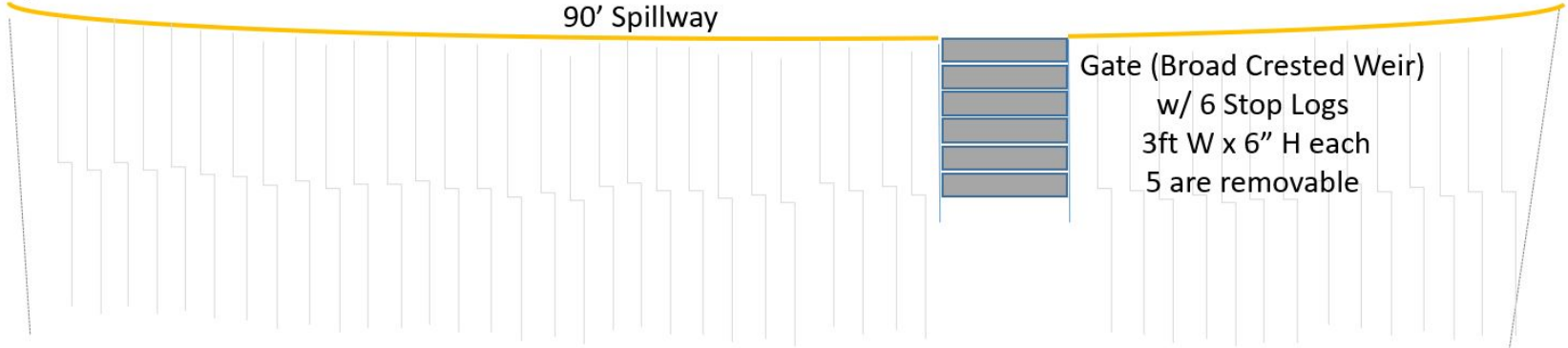
Sheet Piling
(1149.24')

Lake

90' Spillway

Gate (Broad Crested Weir)
w/ 6 Stop Logs
3ft W x 6" H each
5 are removable

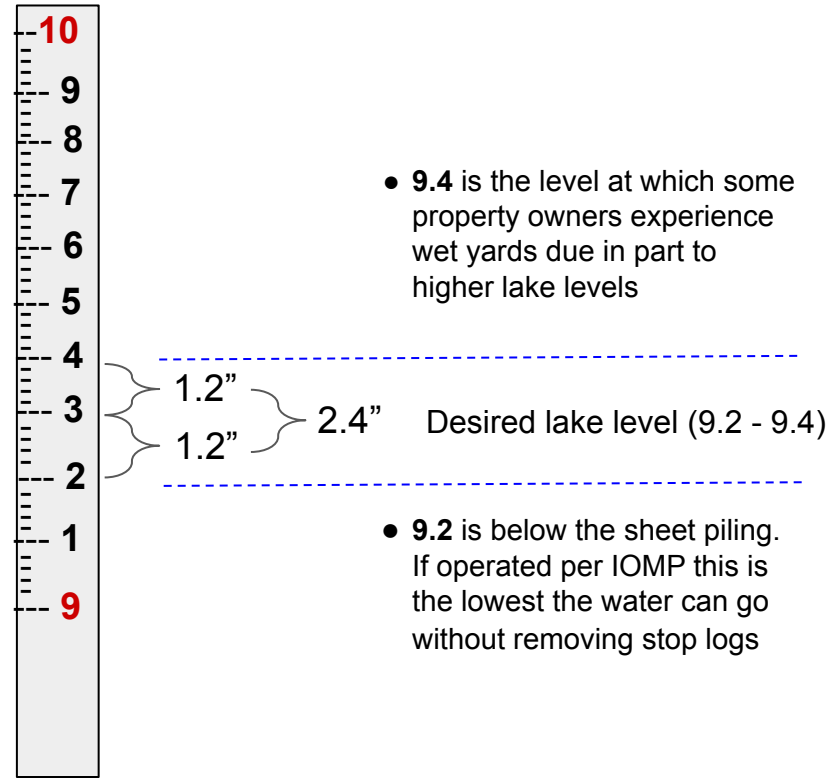
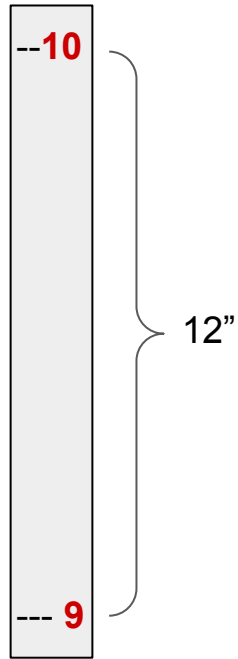
Dam Pool



Dam Facts

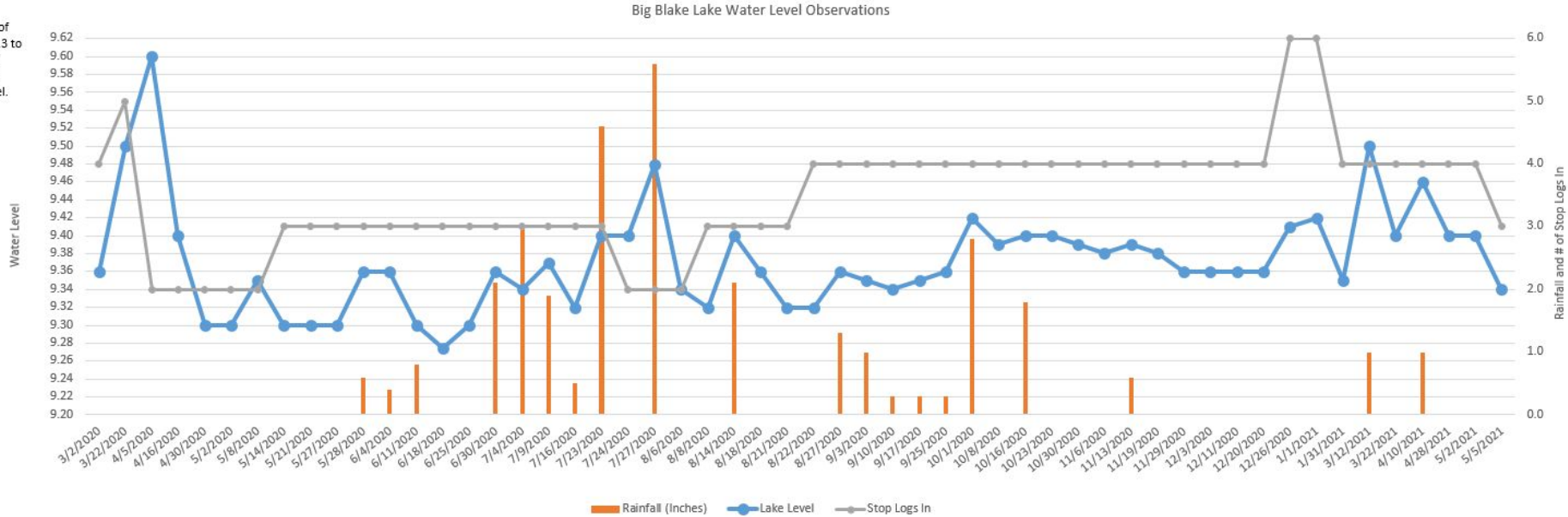
- The spillway is almost 4x longer than the old dam making the lake less susceptible to fluctuations
- The dam is designed as a Fixed Crest Dam intended to be operated with all stop logs in place (IOMP)
- The weir (stop logs) are required by the DNR as a lake drain only and are not intended to increase spillway capacity. (IOMP)
- Larry Gotham (Dam Engineer) assured us there is no risk to operating the dam with stop logs removed

Water Level as measured at the dam



Water Level Observations

Note:
A change of
.10 (ex: 9.3 to
9.4) = 1.2"
change in
water level.



Stop Logs In	Average Water Level	Measurements	I
2	9.40	8	5.60
3	9.34	18	16.00
4	9.38	25	10.40
6	9.42	2	0.00
Total	9.37	53	32.00

2021 Dam Management Proposal (approved by Dam Committee 4/30/2021)

- Weekly monitoring of water level at the dam and rainfall amounts
- Between May 1st and October 1st, we will operate the dam with 3 stop logs in
 - If water reaches 9.4 we will assess the forecast and determine if any action needs to be taken (potentially removing logs)
 - If water reaches 9.2 we will assess the forecast and determine if any action needs to be taken (potentially adding logs)
- From October 1st through April 30th, we will operate the dam with 4 stop logs in as we did this year.
- Note: May 1st and October 1st are DNR guidelines for when drawdowns can start and must be complete by.

Additional Activities

- Dam cleaning will happen regularly with the first cleaning of the season being today. We will clean more frequently when Harvey is active
 - We can use additional help if your available once or twice per year
- Annual Inspection will be completed today