

SAVE OUR LAKES



JUNE 2022 Volume 22, Issue 6

WHAT WILL “NORMAL HIGH WATER LEVEL” LOOK LIKE?

The City of Keystone Heights held a “Meet Your Neighbor Day” on May 21st that allowed numerous local organizations the opportunity to present themselves and what they do for the local community. Save Our Lakes was one of the participants. To illustrate what the impact of the Black Creek Water Resource Project will be on the lakes, we placed a light weight panel at the top of an 11ft (for Lake Geneva/12ft for Lake Brooklyn) pole. People standing at the base of the pole, as if they were standing at the water’s edge, were able to look up to get a sense of what the post Black Creek Water Resource Project “Normal High Water Level” (HWL) will look like. We took the pole down to the water’s edge of Lake Geneva at Keystone Beach. The reported water level on 5/16/22 was 91.87 ft. The HWL is 102.9. The pole is 11.0 ft.



With the swimmers at Keystone Beach



SOLO in the City Park



This dock, immediately west of Keystone Beach, will need to be relocated in the coming years.



With Zach Bryant at the spillway from Lake Keystone

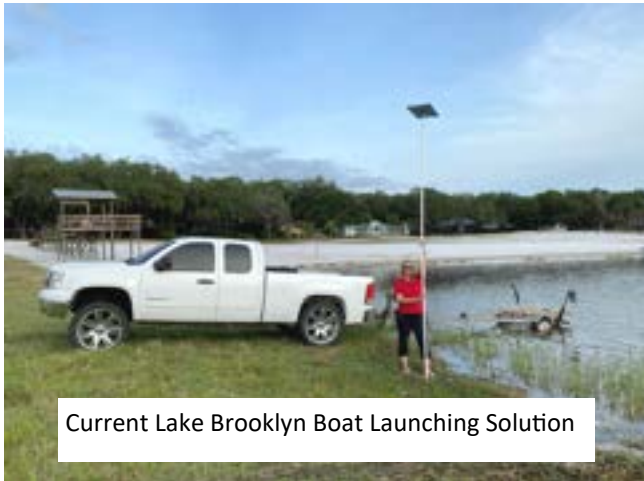
SAVE OUR LAKES ORGANIZATION, INC.

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President: Vivian James — **Vice President:** Chandler Rozear — **Secretary/Treasurer:** Susan Welsh

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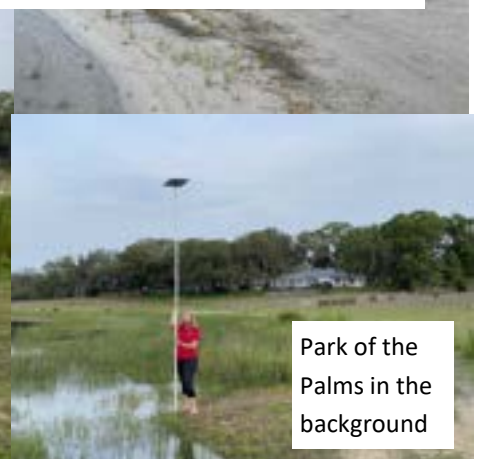
Current Lake Brooklyn Boat Launching Solution



The New Normal High Water Level coming to Lake Brooklyn



Lake Brooklyn Public Boat Ramp on King Street



Park of the Palms in the background



With 12 ft more water, the no trespassing sign will not be needed

Table 1 – Post Project Anticipated Normal Lake Stages

Water Body	Mean Water Level	Normal High Water Level (HWL)*	Normal Low Water Level (LWL)*
Lake Brooklyn	108.9 ft NAVD	114.0 ft NAVD	103.4 ft NAVD
Keystone Lake	95.3 ft NAVD	107.4 ft NAVD	85.9 ft NAVD
Lake Geneva	100.9 ft NAVD	102.9 ft NAVD	99.1 ft NAVD

* Normal HWL is defined as the 80th percentile stage and Normal LWL is defined as the 20th percentile stage under the new normal baseline

Lake Brooklyn's Normal High Water Levels (HWL) demonstrated.

The reported water level of Lake Brooklyn on May 17th was 102.08 ft. The HWL is 114.0 ft. Therefore the height of the pole was 12 ft.

Lake Brooklyn has been calculated to discharge 7.5 million gallons per day into the Water Table Aquifer and the Floridan Aquifer when the lake is at a full pool condition. Lake Geneva contribution is calculated to be 2.5 million gallons into the water table aquifer and the Floridan Aquifer. The smaller Keystone area lakes which are not directly connected to the Floridan Aquifer do receive water from the Water Table Aquifer and will see substantial benefit when Lakes Brooklyn and Geneva return to full pool conditions.

SJRWMD GOVERNING BOARD Mtg. 10:00 AM Tues.,06/14/2022 at the Palatka Office
VERIFY on website: www.sjrwmd.com/governingboard/ (Live Streaming is available)

THE BLACK CREEK WATER RESOURCE PROJECT primarily recharges the Aquifer. As rainfall typically slightly exceeds evaporation, most of the water entering the lake ends up refilling the lake or "leaking" out the bottom of the lake. A small amount may flow down stream to Lake Keystone and Lake Geneva where it will have another chance to "leak" into the aquifer. Essentially all of the 7.5 Million Gallons of water per day average that will be pumped from Black Creek will end up in the Aquifer.

The data and graphics are from the **Florida Geological Survey Reports of Investigations No. 33 Hydrology of Brooklyn Lake near Keystone Heights, Florida, Clark et al, 1963.**

Values, In Acre-Feet, By Water Years			
	1958	1959	1960
Rainfall	1,600	3,100	3,400
Surface inflow	360	8,800	12,800
Surface outflow	0	0	2,000
Evaporation	1,600	2,200	3,000
Change in storage	+360	+7,800	+2,000
Net ground-water flow from lake	0	1,900	9,100



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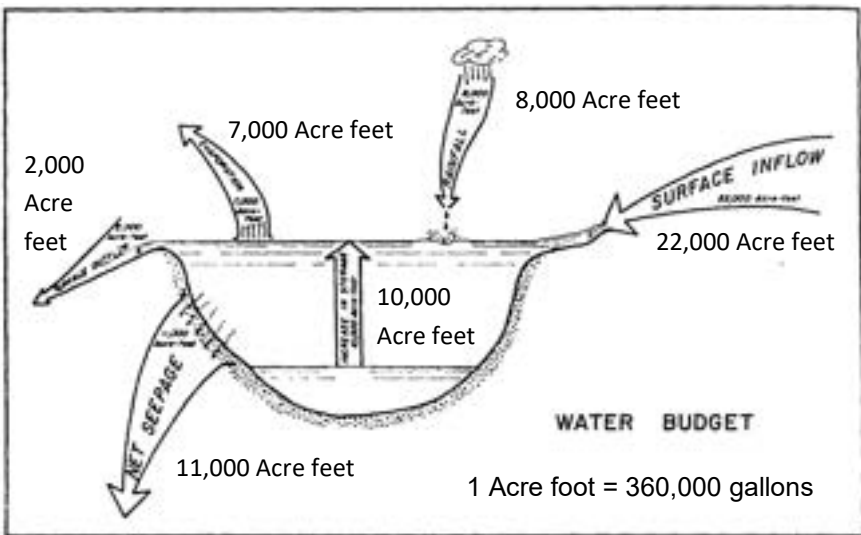


Figure 25. Water budget of Brooklyn Lake for the period October 1957 to September 1960.

(Original graphics are blurry so the text has been added for clarity)



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SEND MONTHLY NEWSLETTER

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PLEASE SEND THIS FORM ALONG WITH YOUR **ANNUAL DUES CHECK FOR \$25.00** PAYABLE TO:

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SOLO WEBSITE www.saveourlakes.org

You can get information as well as communicate with us through our website: www.saveourlakes.org or our email: save-our-lakes@comcast.net. Our newsletter comes out once a month by email and US Mail (usually the first week of the month). **Please feel free to check us out!**

Save Our Lakes Organization, Inc.
 P.O. Box 185
 Keystone Heights, FL 32656



Logo by: *Graham E. Kestner*

Next meeting: 7PM, JULY 12 at the First Baptist Church. We'll have updates on the Black Creek Project and more! Look for meeting signs posted around Keystone Heights. Get your Shot/Booster!

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Lake Geneva 5/16/22: 91.87 FT

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