

SAVE OUR LAKES



JULY 2022 Volume 22, Issue 7

HOW LONG WILL LAKE BROOKLYN TAKE TO REFILL?

We have to say that it depends. The graphics from the 1963 Report of Investigations indicated the volume of water required to refill the lake to be 10,000 acre-feet or 3,600,000,000 gallons. Dividing that by the projected average flow from the Black Creek Project of 7.5 million gallons per day yields 480 days. But, this simple calculation misses some important factors.

We know that there can be great variability in the amount of rainfall from one year to the next. This is seen in the annual rainfall totals in the table to the right from the study years 1958 - 1960. Rainfall impacts the amount of water directly falling on the lakes, the amount naturally flowing down Alligator Creek and from other surface and subsurface inflows and now if water is available to pump from Black Creek at all.

Furthermore, the absolute level of the Water Table Aquifer and the Floridan Aquifer below the lake impacts the rate of "seepage" from the lake into the aquifers. High water levels in the lake plus low aquifer levels lead to greater flow from the lake into the aquifer and a slower rate of recovery for the lake. The converse is true. Low

lake levels plus high aquifer levels create lower flows from the lake to the aquifer. 2 Years construction plus 480 days refill is possible but there are too many variables at work to have confidence in any date projected.

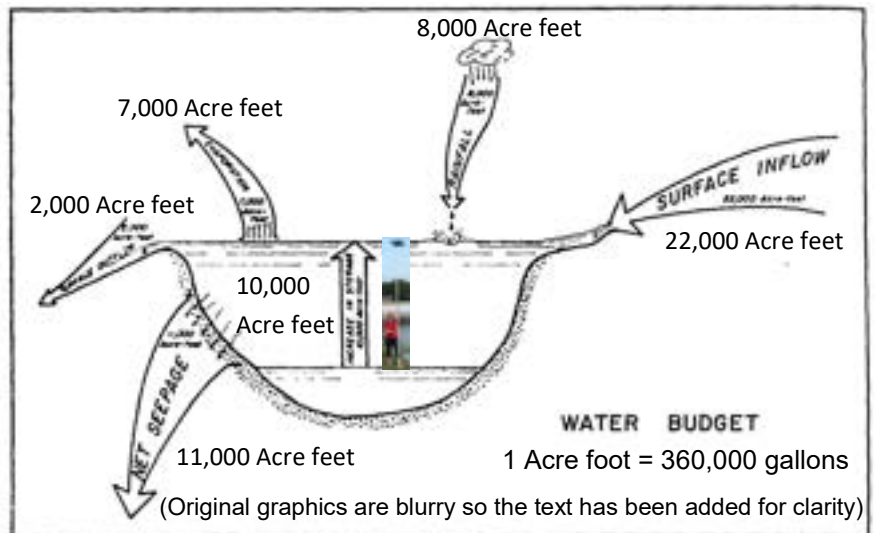


Figure 25. Water budget of Brooklyn Lake for the period October 1957 to September 1960.

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

Clark, W.E., Musgrove, R.H., Menke, C.G., and Cagle, J.W., Jr., 1963, Hydrology of Brooklyn Lake near Keystone Heights, Florida: Florida Geological Survey Report of Investigations no. 33, 43 p.

Next SOLO 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.

SAVE OUR LAKES ORGANIZATION, INC.

P.O. BOX 185, KEYSTONE HEIGHTS, FL 32656

EMAIL: save-our-lakes@comcast.net - **WEBPAGE:** www.saveourlakes.org

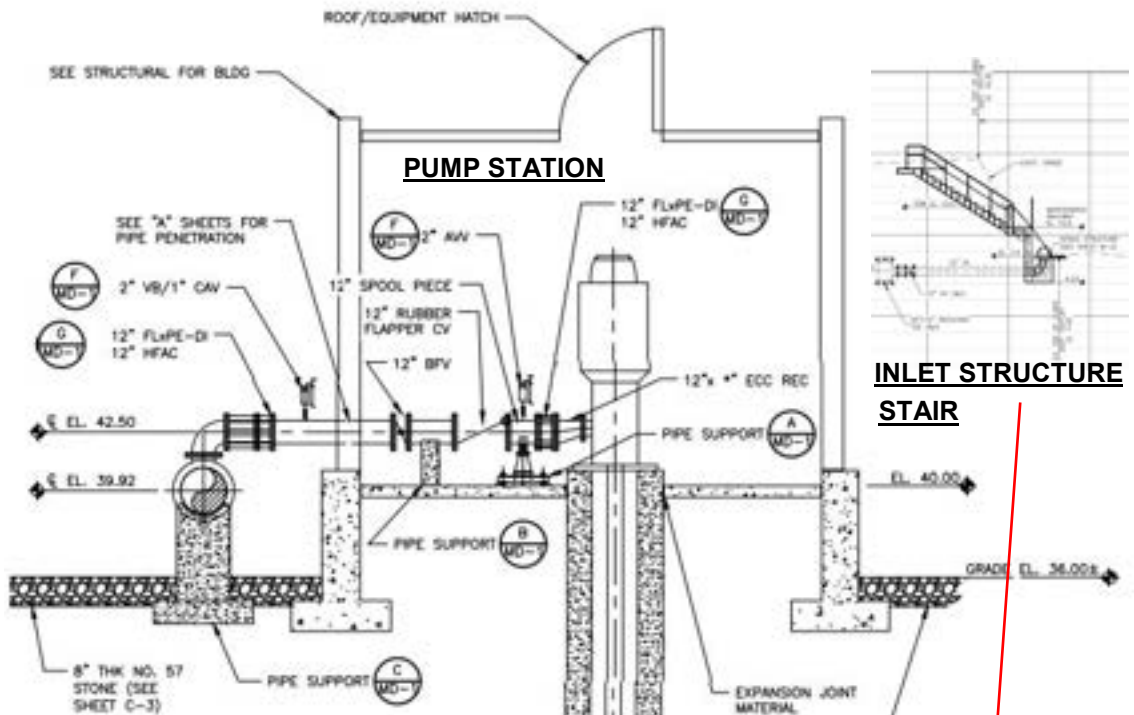
President: Vivian James — **Vice President:** Chandler Rozear — **Secretary/Treasurer:** Susan Welsh

Board Members: Webb Farber, Glenda Harper, Scott Slater, Dr. Pat Welsh

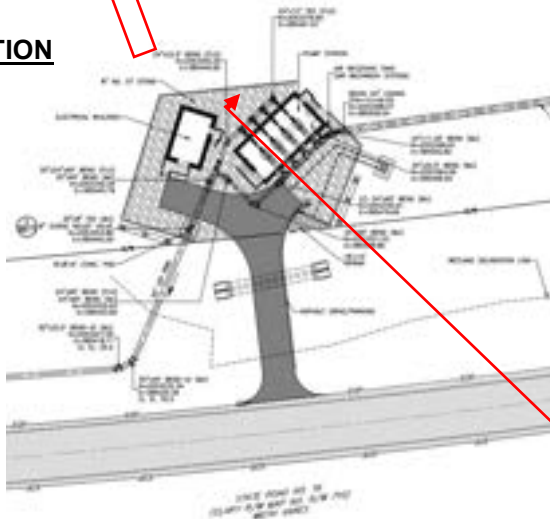
BLACK CREEK WATER RESOURCE PROJECT

Images from the overall Site Plan and the various Plans for the Pump Station and Inlet Structure from the Bid Documents by the Project Engineers, CDM Smith.

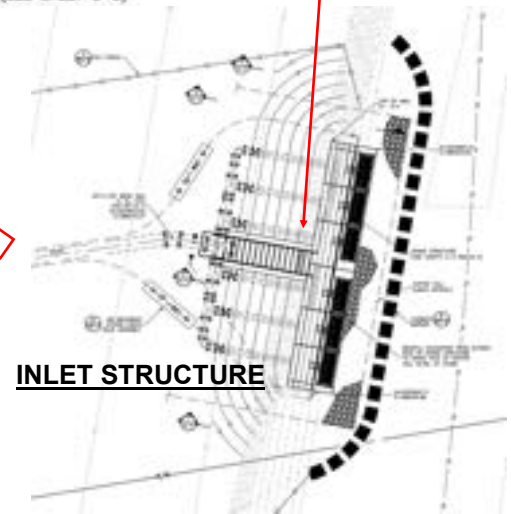
Bidding on this portion of the project has been completed. The results are expected to be on the Agenda of the July 12, 2022 Meeting of the SJRWMD Governing Board



PUMP STATION



INLET STRUCTURE



SJRWMD GOVERNING BOARD Mtg. 10:00 AM Tues.,06/12/2022 at the Palatka Office
VERIFY on website: www.sjrwmd.com/governingboard/ (Live Streaming is available)

TENTATIVE BLACK CREEK WATER RESOURCE PROJECT SCHEDULE

This schedule was provided by the District Project Manager on 6/29/2022 with a reminder that the schedule is dependent on a variety of factors and is subject to change based on Governing Board approvals and other project restraints.

- August 2022 - Pump Station Construction Commencement
- February 2023 - Water Main Construction Commencement
- May/June 2023 - Begin Treatment System Construction
- October 2023 - Pump Station Substantial Completion
- February 2024 - Pump Station and Pipeline Final Completion
- July 2024 - Treatment System Substantial Completion



When Lake Geneva meets its new Normal High Water Level of 102.9 ft NAVD (11 feet above its current level, as seen at the right) the effects of the various ATVs on the lake bottom will be but a memory for some residents. The next generation will have a hard time believing it ever looked like this.

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Cut, copy or send the whole page!

(Please Check) **RENEWAL** **NEW MEMBER**

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PHONE NUMBER(S) _____

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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:

SAVE OUR LAKES ORG. P.O. BOX 185, KEYSTONE HEIGHTS, FL 32656

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*

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NEWSLETTER PRINTING BY FABCO-AIR. THANK YOU, FABCO-AIR!

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