

## MEMORANDUM

**TO:** Laureen Borochaner, Chief, Engineering Division (USACE)  
**FROM:** John Mitnik, Chief District Engineer (SFWMD)  
Akin Owosina, Chief, Hydrology & Hydraulics Bureau (SFWMD)  
**DATE:** October 19, 2023  
**SUBJECT:** Operational Position Statement October 17, 2023 to October 23, 2023

This Position Statement is to provide operational input for the one-week period from October 17, 2023 to October 23, 2023 based on system conditions and data observed during the previous Monday to Sunday 7-day period. On October 16 Lake Okeechobee stage was 16.34 feet NGVD, which placed it within the Intermediate Sub-band of the 2008 Lake Okeechobee Regulation Schedule (LORS). Lake stage increased by 0.24 feet over the preceding 7-day period.

District October rainfall to date is below normal (89% of normal). Rainfall District forecast (issued October 18) calls for much below normal rainfall for the coming 7-day period and below normal for the following one.

Precipitation Outlook: The most recent CPC precipitation outlook for South Florida for October 2023 shows equal chances of below normal, normal and above normal rainfall. The outlook for the 3-month window of Oct-Dec indicates increased chances of above normal rainfall. The 3-month window of Nov 2023-Jan 2024 shows substantially increased chances of above normal rainfall for areas north of the EAA and increased chances of above normal rainfall for the remaining areas south. The 3-month windows of Dec 2023-Feb 2024 and Jan 2024-Mar 2024 indicate substantially increased chances of above normal rainfall. The outlooks for the 3-month window Feb 2024-Apr 2024 Mar 2024 – May 2024 are for increased chances of above normal rainfall. The transition to and the first half of the 2024 wet season indicate equal chances of below normal, normal and above normal rainfall.

2008 LORS Release Guidance (Part C): With Lake Okeechobee stage within the Intermediate Sub-band, Part C of the 2008 LORS suggests “Maximum Practicable Releases to the WCAs” as long as stages in all downstream WCAs are below the maximum of the upper schedule plus 0.25 feet.

Over the 7-day period from October 9 to October 15, 2023, no regulatory releases were sent from Lake Okeechobee south to the STAs. No Lake regulatory releases reached the Lake Worth Lagoon through the C-51 canal during this period. Stage in WCA-1 is 0.02 feet above regulation schedule (max at 17.5 feet NGVD) and 0.23 feet below max schedule + 0.25 feet, stage in WCA-2A is 0.90 feet above regulation schedule (max at 13.0 feet NGVD) and 0.41 feet above max schedule + 0.25 feet, and WCA-3A stage is 0.99 feet above regulation schedule (max at 10.5 feet NGVD), in Zone A, and 0.63 feet above max schedule + 0.25 feet. For the coming operational period, USACE is not requesting maximum practicable regulatory releases be sent south from Lake Okeechobee towards the WCAs.

2008 LORS Release Guidance (Part D): With Lake Okeechobee stage within the Intermediate Sub-band, the Tributary Hydrologic conditions in the Very Wet category, the Up to 30-day Meteorological Forecast in the Normal category (according to CPC outlook for October), Part D of the 2008 LORS suggests “S-77 up to 4,000 cfs and S-80 up to 1,800 cfs”. In addition, Lake Okeechobee stage is 0.84 feet above elevation 15.5 feet NGVD which is the stage for the upper boundary of the Ecological Envelope for this time of the year.

For the 7-day period October 9 to October 15, 2023, total discharge to the St. Lucie Estuary was about 1,900 cfs with no releases coming from Lake Okeechobee. The 7-day average salinity in the middle estuary was in the optimal range (10-25) for adult eastern oysters. Total inflow to the Caloosahatchee Estuary averaged approximately 3,200 cfs with about 200 cfs coming from Lake Okeechobee through S-77. Salinities in the upper estuary were within the optimal range (0-10) for tape grass. The 7-day average salinities for adult eastern oysters were in the lower stressed range at Cape Coral (5-10), in the optimal range at Shell Point (10-25), and in the upper stressed range at Sanibel (>25).

Since the end of November 2022, both local basin runoff in the Caloosahatchee Watershed and lake releases through S-77 have maintained salinity in the Caloosahatchee Estuary. The District recommends USACE implement a non-harmful release from Lake Okeechobee to the Caloosahatchee Estuary with an average discharge of 2,000 cfs (7-day pulse) as measured at the S-79 structure and zero lake releases to the St. Lucie Estuary. The USACE typically implements the releases to the estuaries starting on Saturday and ending on Friday. The Corps should continue to track Red Tide and Blue Green Algae conditions, and should conditions change during this operational period, the Corps should look to reassess releases as needed.