

## MEMORANDUM

**TO:** John Mitnik, Division Director, Operations, Engineering, and Construction

**THROUGH:** Dean Powell, Bureau Chief, Water Supply

**FROM:** SFWMD Staff Water Supply Advisory Team

**DATE:** June 14<sup>th</sup>, 2016

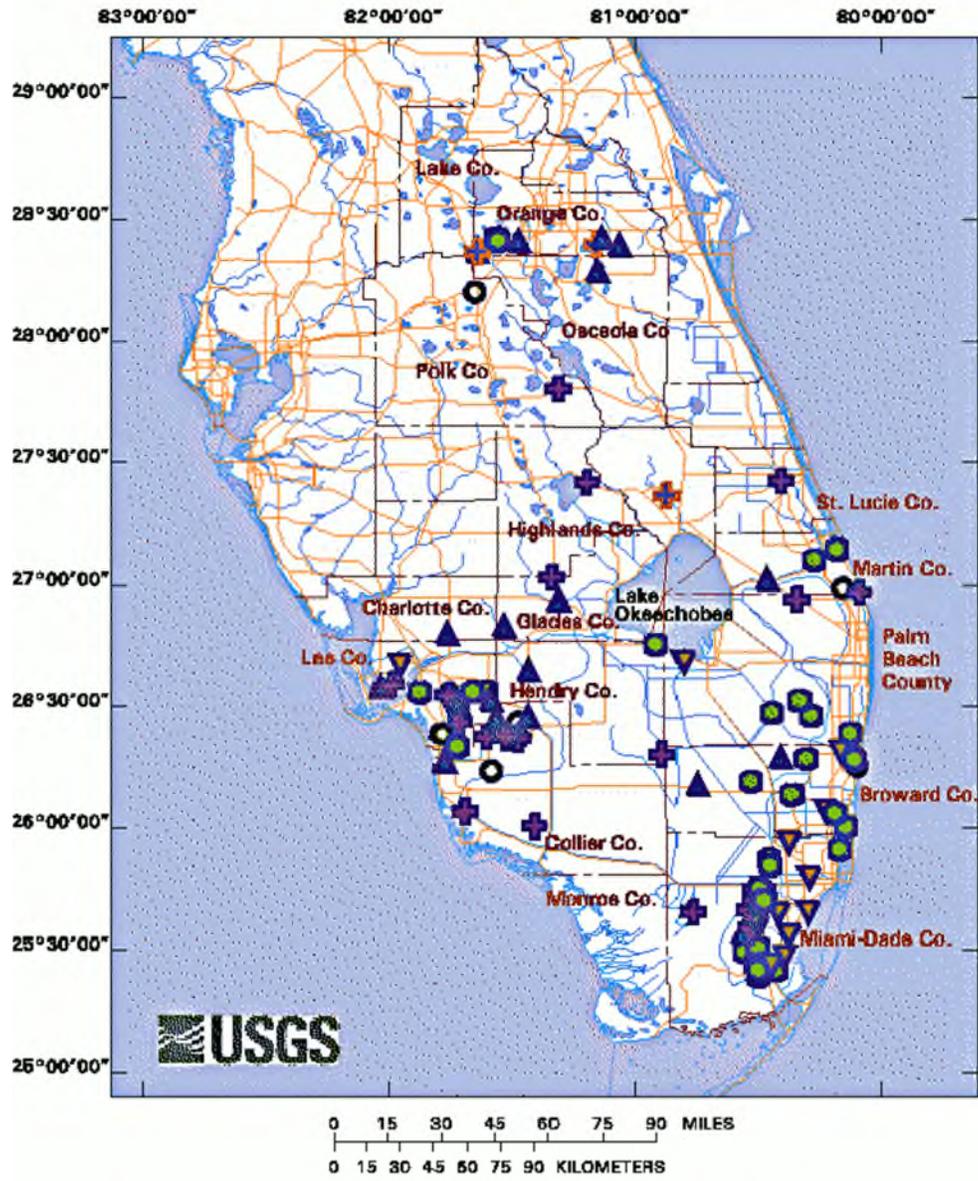
**SUBJECT:** Water Supply Report

### **District-wide Conditions**

Surface and groundwater levels showed mixed trends throughout the District over the last week. The majority of United States Geological Survey (USGS) real-time wells in the Kissimmee Basin (KB) within the District boundaries were in the upper 10<sup>th</sup> to 30<sup>th</sup> percentile range for this time of year. Most of the surface and groundwater stations across the KB recorded increases in water levels during the last seven days. Stages in the Upper East Coast (UEC) canals C-23, C-24, and C-25 were at 20.20, 18.01, and 17.62 feet, respectively, well above the 14 feet NGVD agricultural cutoff level. About two thirds of UEC surficial aquifer wells are in the upper 10<sup>th</sup> to 30<sup>th</sup> percentile range or higher for this time of year. Surface and groundwater levels increased in the majority of the stations in the Biscayne aquifer. Approximately two thirds of the USGS Biscayne aquifer monitor wells are in their median percentile range or higher at this time. Most of the remainder is in the lower 10<sup>th</sup> to 30<sup>th</sup> percentile.

In the Lower West Coast (LWC), groundwater levels increased in the majority of the monitor wells over the last seven days. Most of the wells in the Surficial aquifer are in the median percentile range or higher for this time of year. The majority of the Lower Tamiami aquifer wells are at median levels or higher. Approximately seventy percent of Sandstone aquifer monitor wells are in the upper 10<sup>th</sup> to 30<sup>th</sup> percentile range for this time of year. About three quarters of the Mid-Hawthorn aquifer monitor wells are at median levels or higher for this time of year, with the remainder in the lowest 10<sup>th</sup> percentile range. **Figure 1** is a USGS map showing conditions on June 13<sup>th</sup>, 2016, from a 7-day running average of daily recorded water levels compared to the statistical distribution of daily water levels for the period of record for selected sites in southern Florida.

PROVISIONAL DRAFT -- Subject to Revision



**Water levels at selected sites in South Florida,  
Based on PROVISIONAL DATA, as of June 13, 2016.**

**Figure 1. Current Water-level Conditions in South Florida (source: USGS,  
[http://www.sflorida.er.usgs.gov/ddn\\_data/index\\_ndt.html](http://www.sflorida.er.usgs.gov/ddn_data/index_ndt.html))**

## **Water Supply Technical Input to LORS2008**

The Palmer Index for Lake Okeechobee (LOK) Tributary Conditions is 0.49, classified as “normal,” and is in the “low” risk category. The LOK stage for the next two months is projected to be in the Low Flow Sub-Band, and the risk to water supply is categorized as “low.” The Climate Prediction Center’s (CPC) Precipitation Outlook is projected as “normal” for one month and “normal” for three months, leaving both the one month outlook and the three month outlook in the “low” risk category. The LOK Seasonal Net Inflow Forecast is in the “normal to extremely wet” range, with “low” risk to water supply. The Multi-Seasonal Net Inflow Forecast is projected as “wet,” with “low” risk to water supply. The stages in the Water Conservation Areas are all above line 1 and are in the “low” risk category. Groundwater levels in LEC Service Areas are in the “low” risk category. The Year-Round Irrigation Rule is in effect for the LEC Service Areas. **Figure 2** summarizes the water supply risk indicators.

**LORS2008 Implementation on 6/13/2016 (ENSO Neutral Condition):**

**Water Supply Bureau Technical Input**

**Status for week ending 6/13/2016:**

District wide, Raindar rainfall 3.42 inches for the week. Lake stage on 6/13/2016 is 14.68 ft, up 0.36 ft from last week.

The updated June 2016 SFWMM Dynamic Position Analysis [percentile graph](#) and [tracking chart](#) for Lake Okeechobee show that the lake stage is in the Low Operational Sub-Band.

The LORS2008 tributary [indices](#) are classified as **Very Wet**. The PDSI indicates normal condition and the LONIN is Very Wet. The classification is based on the wetter of the two.

**Water Supply Risk Evaluation**

Area	Indicator	Value	Color Coded Scoring Scheme
LOK	Projected LOK Stage for the next two months	Low Sub-Band	L
	Palmer Index for LOK Tributary Conditions	0.49 (Normal)	L
	CPC Precipitation Outlook	1 month: Normal	L
		3 months: Normal	L
	LOK Seasonal Net Inflow Forecast	3.84 ft (Normal to Extremely Wet)	L
	Neutral		
	LOK Multi-Seasonal Net Inflow Forecast	4.08 ft (Wet)	L
Neutral			
WCAs	WCA 1: Site 1-7, Site 1-8T, & Site 1-9 Average	Above Line 1 (16.17 ft)	L
	WCA 2A: Site 2-17 HW	Above Line1 (12.10 ft)	L
	WCA-3A: 3 Station Average (Site 63, 64 and 65)	Above Line 1 (9.66 ft)	L
LEC	Service Area 1	Year-Round Irrigation Rule in effect	L
	Service Area 2	Year-Round Irrigation Rule in effect	L
	Service Area 3	Year-Round Irrigation Rule in effect	L

Note: The water supply risk classification based on the Palmer index, as well as the LOK seasonal and multi-seasonal net inflow forecasts use slightly different classification intervals than those used by the 2008-LORS.

**Figure 2. Water Supply Risk Indicators**