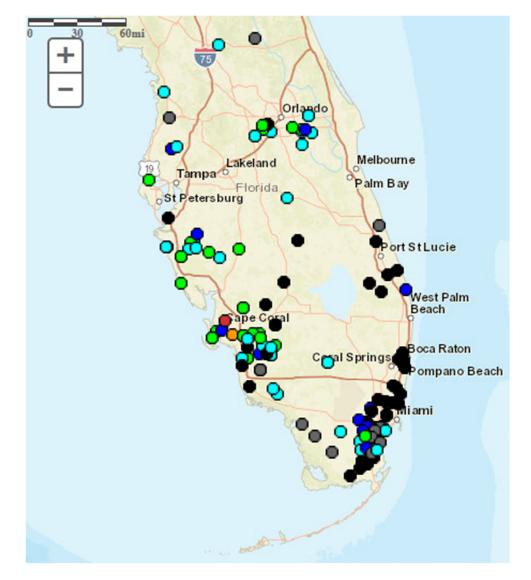
MEMORANDUM

TO:	John Mitnik, Division Director, Operations, Engineering, and Construction
THROUGH:	Peter Kwiatkowski, Section Administrator, Resource Evaluation
FROM:	SFWMD Staff Water Supply Advisory Team
DATE:	May 30, 2018
SUBJECT:	Water Supply Report

District-wide Conditions

Surface and groundwater levels showed increasing trends throughout the District over the last week. The majority of the United States Geological Survey (USGS) real-time wells in the Kissimmee Basin (KB) within the District boundaries are in their upper percentile ranges for this time of year. Surface water and groundwater stations across the KB recorded increases in water levels over the last week. Stages in the Upper East Coast (UEC) canals C-23, C-24, and C-25 are at 19.58, 17.89, and 17.66 feet, all above the fourteen feet agricultural cut-off. Most of the UEC surficial aquifer wells are also in their upper percentile ranges for this time of year. Surface and groundwater levels increased throughout the Lower East Coast (LEC) over the past week. The vast majority of the Biscayne aquifer monitor wells are in their upper percentile ranges at this time.

Overall, conditions have improved in the Lower West Coast (LWC). Groundwater levels increased across the region over the last seven days. Most of the wells in the Surficial aquifer are in the upper percentile ranges for this time of year. About eighty percent of the Lower Tamiami aquifer wells are in the upper percentile ranges, with the remainder at median levels. Approximately one third of the Sandstone aquifer monitor wells are at median levels for this time of year, with the remainder in the upper percentile ranges. About one third of the Mid-Hawthorn aquifer monitor wells are at median levels, with the remainder also split between the upper and lower percentile ranges. **Figure 1** summarizes current water level conditions.



Explanat	ion - Per	centile o	classes	symbol colo	r based on mo	ost recent m	easurement)	Wells	s Sprii	ngs
			•			•		0	Real-Time	
Low	<10	10-24	25-75	76-90	>90	1.8-1-	Not Ranked	Continuous		
	Much Below Normal	Below Normal	Normal	Above Normal	Much Above Normal	High			leasurements	

Figure 1. Florida Real-Time Groundwater Level Network Map

Water Supply Technical Input to LORS2008

The Palmer Index for Lake Okeechobee (LOK) Tributary Conditions is 1.40 classified as "normal to extremely wet," 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 "above normal" for one month and "above normal" for three months, leaving both the one-month outlook and 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 Water Conservation Areas 1, 2A and 3A are above line 1 and are in the "low" risk category. Year-Round Irrigation Rule is in effect for the LEC Service Areas. **Figure 2** summarizes the water supply risk indicators.

LORS2008 Implementation on 5/28/2018 (ENSO Neutral Condition):

Status for week ending 5/28/2018:

District wide, Raindar rainfall was 2.38 inches for the week. Lake stage on 5/28/2018 was 13.90 ft, NGVD, up 0.40 ft from last week. The updated May 2018 SFWMM Dynamic Position Analysis <u>percentile graph</u> for

Lake Okeechobee show that the current lake stage is in the Low Flow Sub-Band. The 2008 LORS Tributary Hydrologic Condition (THC) is classified as **Very Wet**. The PDSI indicates normal conditions and the LONIN is very wet. The THC classification is based on the wetter of the two indices.

	Indicator	Value	Color Coded Scoring Scheme
	Projected LOK Stage for the next two months	Low Flow Sub Band	L
	Palmer Index for LOK Tributary Conditions	1.40 (Normal to Extremely Wet)	L
Γ		1 month: Above Normal	L
LOK	CPC Precipitation Outlook	3 months: Above Normal	L
F	LOK Seasonal Net Inflow Outlook ENSO Years	3.72 ft (Normal to Extremely Wet)	L
	LOK Multi-Seasonal Net Inflow Outlook	4.72 ft (Wet)	L
	ENSO Conditions WCA 1: Station Average (Site 1-7, Site 1-8T, Site 1-9)	Above Line 1 (16.97 ft)	L
WCAs	WCA 2A: Site 2-17	Above Line 1 (13.61 ft)	L
	WCA-3A: 3 Station Average (Site 63, 64 and 65)	Above Line 1 (10.15 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

Water Supply Risk Evaluation

Figure 2. Water Supply Risk Indicators