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:	January 17 th , 2017	
SUBJECT:	Water Supply Report	

District-wide Conditions

Surface and groundwater levels showed mixed trends throughout the District over the last week. Approximately half of United States Geological Survey (USGS) real-time wells in the Kissimmee Basin (KB) within the District boundaries are at median levels for this time of year. The remainder are in the lower 10th to 30th percentile range. Over two thirds of the surface and groundwater stations across the KB recorded decreases in water levels during the last two weeks. Stages in the Upper East Coast (UEC) canals C-23, C-24, and C-25 were at 21.45, 19.04, and 15.63 feet, respectively, well above the 14 feet NGVD agricultural cutoff level. About half of UEC surficial aquifer wells are in the median percentile range for this time of year. Surface and groundwater levels decreased in the majority of the stations in the Biscayne aquifer. Most of the USGS Biscayne aquifer monitor wells are in their median percentile range at this time.

In the Lower West Coast (LWC), groundwater levels also decreased in about eighty percent of the monitor wells over the last seven days. Approximately two thirds of the wells in the Surficial aquifer are in the lower 10th to 30th percentile range, with the remainder at median levels. About half of the Lower Tamiami aquifer wells are at median levels, with the rest in the lower 10th to 30th percentile range. Approximately fifty percent of the Sandstone aquifer monitor wells are in the median percentile range for this time of year, again with the remainder split between the lower 10th to 30th percentile range and the lowest 10th percentile. About half of the Mid-Hawthorn aquifer monitor wells are at median levels or higher for this time of year, with the remainder split between the lower 10th to 30th percentile range and the lowest 10th percentile range. The USGS map showing water level conditions is not currently available.

Water Supply Technical Input to LORS2008

The Palmer Index for Lake Okeechobee (LOK) Tributary Conditions is -1.70, classified as "dry," and is in the "moderate" 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 "moderate." The Climate Prediction Center's (CPC) Precipitation Outlook is projected as "below normal" for one month and "below normal" for three months, leaving both the one month outlook and the three month outlook in the "moderate" risk category. The LOK Seasonal Net Inflow Forecast is in the "dry" range, with "moderate" risk to water supply. The Multi-Seasonal Net Inflow Forecast is projected as "normal" with "moderate" 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 1** summarizes the water supply risk indicators.

LORS2008 Implementation on 1/16/2017 (ENSO La Nina Condition):

Status for week ending 1/16/2017:

District wide, Raindar rainfall was 0.00 inches for the week. Lake stage on 1/16/2017 was 14.02 ft, down 0.08 ft from last week.

The updated January 2017 SFWMM Dynamic Position Analysis <u>percentile graph</u> for Lake Okeechobee show that the current lake stage is in the Low Operational Sub-Band.

The LORS2008 tributary <u>indices</u> are classified as **Dry**. The PDSI indicates dry condition and the LONIN is Dry. The classification is based on the wetter of the two.

Area	Indicator	Value	Color Coded Scoring Scheme
LOK	Projected LOK Stage for the next two months	Low Sub-Band	м
	Palmer Index for LOK Tributary Conditions	-1.70 (Dry)	М
	CPC Precipitation Outlook	1 month: Below Normal	М
	CFC Freepitation Outlook	3 months: Below Normal	М
	LOK Seasonal Net Inflow Outlook ENSO La Nina Years	0.30 ft (Dry)	м
	LOK Multi-Seasonal Net Inflow Outlook	2.96 ft (Normal)	м
WCAs	ENSO La Nina Years WCA 1: Site 1-7, Site 1-8T, & Site 1-9 Average	Above Line 1 (16.49 ft)	L
	WCA 2A: Site 2-17 HW	Above Line1 (11.99 ft)	L
	WCA-3A: 3 Station Average (Site 63, 64 and 65)	Above Line 1 (9.76 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 Note: The water supply risk classification based on the P	Year-Round Irrigation Rule in effect	L

Water Supply Risk Evaluation

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

Figure 1	. Water	Supply	Risk	Indicators
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