

## MEMORANDUM

TO: Governing Board

FROM: Tom Mirti, Division Director, Water Resources

DATE: July 31, 2017

RE: Authorization to Enter into an Interagency Joint Funding Agreement with the United States Geological Survey, Florida District, for Streamgaging Services

## RECOMMENDATION

**Staff recommends the Governing Board authorize the Executive Director to enter into an Interagency Joint Funding Agreement with the United States Geological Survey (USGS) in the amount of \$768,720 for streamgaging services of which \$543,351 will be provided by the District, and \$225,369 will be provided by the USGS.**

## BACKGROUND

The proposed Fiscal Year (FY) 2018 Interagency Joint Funding Agreement (JFA) with the USGS Florida District is for a total amount of \$768,720, with the District providing \$543,351 and the USGS contributing \$225,369. For FY 2017, the total JFA amount was \$695,400 and the District's share was \$490,031. The increase is a result of the District initiating conductivity and temperature monitoring at 8 locations along the Suwannee River to improve baseflow separation efforts in support of the North Florida Southeast Georgia groundwater flow modeling.

In addition, Nestlé Waters North America and Packaging Corporation of America will provide \$84,000 and \$21,600, respectively, toward Withlacoochee River monitoring in this JFA under renewed agreements with them signed in 2016 and ending in 2018. The USGS' National Streamflow Information Program (NSIP) also will cover an additional \$170,500 of the surfacewater gaging costs while the Florida Department of Environmental Protection is continuing to fund USGS gaging on the New and Ichetucknee rivers and Troy Spring.

The USGS provides maintenance of gages and sensors to USGS standards, quality assurance and archiving, availability of real-time and long-term data and statistics, and real-time satellite delivery of data to the public, the District, and the National Weather Service's Southeast River Forecast Center using robust methods. This long-term program provides essential information for floodplain mapping, minimum flows and levels, flood warnings and forecasts through the National Weather

Service, groundwater modeling and drought monitoring. Data obtained through this program are available in real-time to the public via the USGS' national web page, the District's River Levels web page, and the District's river level phone system.

Table 1 provides a list of monitoring stations and a breakdown of the proposed cooperative budget. Funding for this agreement is included in the FY 2018 tentative budget and is contingent upon approval of the final budget.

THM/pf  
Attachment

Table 1: Cooperative Surface Network Florida 2017/2018

RIVERS--STATION NAME / EARLIEST RECORD	Total \$	NSIP \$	USGS \$	SRWMD \$	REMARKS
ALAPAHA RIVER NEAR JENNINGS / 1976	15,810	0	6,200	9,610	
ALAPAHA RIVER NEAR JENNINGS / 2016	7,850	0	2,500	5,350	Temperature/Conductivity
AUCILLA RIVER AT LAMONT / 1950	15,500	15,500	0	0	NSIP, FFP
AUCILLA RIVER NEAR NUTTAL RISE / 2001	6,830	0	940	5,890	
ECONFINA RIVER NEAR PERRY / 1950	15,500	15,500	0	0	NSIP
NEW RIVER NEAR LAKE BUTLER / 1950	0	0	0	0	FDEP funding
SANTA FE RIVER AT O'LENO STATE PARK / 1977	15,810	0	6,200	9,610	
SANTA FE RIVER AT WORTHINGTON SPRINGS / 1931	15,810	0	6,200	9,610	MFL
SANTA FE RIVER AT WORTHINGTON SPRINGS / 2015	7,850	0	3,060	4,790	Temperature/Conductivity
SANTA FE RIVER NEAR FORT WHITE / 1927	15,500	15,500	0	0	NSIP,MFL,NWG
SANTA FE RIVER NEAR FORT WHITE / 2015	7,850	0	3,060	4,790	Temperature/Conductivity
SANTA FE RIVER NEAR GRAHAM / 1957	15,810	0	6,200	9,610	MFL
SANTA FE RIVER NEAR HILDRETH /1947	27,600	0	11,040	16,560	FFP. MFL
SANTA FE RIVER NEAR HILDRETH / 2015	7,650	0	3,060	4,590	Temperature/Conductivity
STEINHATCHEE RIVER NEAR CROSS CITY / 1950	15,810	0	6,200	9,610	
SUWANNEE RIVER ABOVE GOPHER RIVER / 1999	6,830	0	2,680	4,150	
SUWANNEE RIVER AT BRANFORD / 1930	15,500	15,500	0	0	NSIP,NWG
SUWANNEE RIVER AT BRANFORD / 2016	7,850	0	2,500	5,350	Temperature/Conductivity
SUWANNEE RIVER AT DOWLING PARK / 1980	15,500	15,500	0	0	NSIP
SUWANNEE RIVER AT DOWLING PARK / 2016	7,850	0	2,500	5,350	Temperature/Conductivity
SUWANNEE RIVER AT ELLAVILLE / 1927	15,500	15,500	0	0	NSIP, NWG
SUWANNEE RIVER AT LURAVILLE / 1927	15,500	15,500	0	0	NSIP
SUWANNEE RIVER AT SUWANNEE SPRINGS / 1960	15,500	15,500	0	0	NSIP
SUWANNEE RIVER AT SUWANNEE SPRINGS / 2016	7,850	0	2,500	5,350	Temperature/Conductivity
SUWANNEE RIVER AT WHITE SPRINGS / 1906	15,500	15,500	0	0	NSIP
SUWANNEE RIVER NEAR BELL / 1932	15,500	15,500	0	0	NSIP
SUWANNEE RIVER NEAR WILCOX / 1930	28,150	15,500	0	11,600	NSIP,MFL,NWG, IV DISCHARGE
WACCASASSA RIVER NEAR GULF HAMMOCK / 1963	28,150	0	11,040	17,110	MFL
WITHLACOOCHEE RIVER NEAR LEE / 2000	28,150	0	0	28,150	

Table 1, Continued: Cooperative Surface Network Florida 2017/2018

<b>RIVERS--STATION NAME / EARLIEST RECORD</b>	<b>Total \$</b>	<b>NSIP \$</b>	<b>USGS \$</b>	<b>SRWMD \$</b>	<b>REMARKS</b>
WITHLACOOCHEE RIVER NEAR MADISON / 1947	15,810	0	0	15,810	
WITHLACOOCHEE RIVER NEAR PINETTA / 1931	15,810	0	0	15,810	MFL
WITHLACOOCHEE RIVER NEAR PINETTA / 1931	3,060	0	0	3,060	6 ADDITIONAL MEASUREMENTS
<b>SPRINGS--STATION NAME / EARLIEST RECORD</b>	<b>Total \$</b>	<b>NSIP \$</b>	<b>USGS \$</b>	<b>SRWMD \$</b>	<b>REMARKS</b>
ALAPAHA RISE ABOVE SW 68 <sup>th</sup> DR NEAR JASPER / 2016	9,380		2,500	6,880	Temperature/Conductivity
BLUE HOLE SPRING ON THE ICHETUCKNEE / 1946	15,810		6,200	9,610	STAGE-DISCHARGE
BLUE HOLE SPRING ON THE ICHETUCKNEE / 2014	21,900	0	8,560	13,340	TEMP,COND,DO,pH,TDS
BLUE HOLE SPRING ON THE ICHETUCKNEE / 2014	10,000	0	4,000	6,000	NITRATE
BLUE SPRING NEAR MADISON / 1932	28,150	0	0	28,150	STAGE AND DISCHARGE RATED WITH WELL
BLUE SPRING NEAR MADISON / 2014	3,060	0	0	3,060	6 ADDITIONAL MEASUREMENTS
BLUE SPRING NEAR MADISON / 2014	21,900	0	0	21,900	TEMP,COND,DO,pH,TDS
BLUE SPRING NEAR MADISON / 2014	10,000	0	0	10,000	NITRATE
FANNING SPRING / 1930	28,150	0	11,040	17,110	STAGE AND IV DISCHARGE
LITTLE FANNING SPRING / 1946	3,060	0	0	3,060	6 MEASUREMENTS
FANNING SPRING / 2014	21,900	0	8,560	13,340	TEMP,COND,DO,pH,TDS
FANNING SPRING / 2014	10,000	0	4,000	6,000	NITRATE
ICHETUCKNEE RIVER NEAR HILDRETH / 1898	0	0	0	0	FDEP funding
ICHETUCKNEE RIVER NEAR HILDRETH / 2016	10,000	0	4,000	6,000	NITRATE
ICHETUCKNEE RIVER NEAR HILDRETH / 2017	7,850	0	2,500	5,350	Temperature/Conductivity
FALMOUTH SPRING AT FALMOUTH / 1908	28,150	0	11,040	17,110	STAGE AND IV DISCHARGE
FALMOUTH SPRING AT FALMOUTH / 2015	21,900	0	8,560	13,340	TEMP,COND,DO,pH,TDS
FALMOUTH SPRING AT FALMOUTH / 2015	10,000	0	3,919	6,081	NITRATE
BLUE SPRING NEAR DELL / 1973	28,150	0	11,040	17,110	STAGE AND IV DISCHARGE
BLUE SPRING NEAR DELL / 2015	21,900	0	8,560	13,340	TEMP,COND,DO,pH,TDS
BLUE SPRING NEAR DELL / 2015	10,000	0	4,000	6,000	NITRATE
MANATEE SPRINGS NR CHIEFLAND / 1932	24,900	0	9,760	15,140	STAGE AND DISCHARGE RATED WITH WELL
MANATEE SPRINGS NR CHIEFLAND / 2014	21,900	0	8,560	13,340	TEMP,COND,DO,pH,TDS
MANATEE SPRINGS NR CHIEFLAND / 2014	10,000	0	4,000	6,000	NITRATE
SANTA FE RIVER AT RIVER RISE / 1979	15,810	0	6,200	9,610	

SPRINGS--STATION NAME / EARLIEST RECORD	Total \$	NSIP \$	USGS \$	SRWMD \$	REMARKS
SANTA FE RIVER AT RIVER RISE / 1979	7,850	0	3,060	4,790	Temperature/Conductivity
TROY SPRINGS / 2013	0	0	0	0	FDEP
WACISSA RIVER NEAR WACISSA / 1971	28,150	0	11,040	17,110	STAGE AND IV DISCHARGE
WACISSA RIVER NEAR WACISSA / 1971	3,060	0	0	3,060	6 ADDITIONAL MEASUREMENTS
WACISSA RIVER NEAR WACISSA / 2015	12,000	0	0	12,000	Cross Section Maintenance
WACISSA RIVER NEAR WACISSA / 2015	21,900	0	8,560	13,340	TEMP,COND,DO,pH,TDS
WACISSA RIVER NEAR WACISSA / 2015	10,000	0	4,000	6,000	NITRATE
RIVERS AND SPRINGS--TOTAL		170,500			
USGS COOPERATIVE SUPPORT					
RIVERS AND SPRINGS--MINUS NSIP					

NSIP = NATIONAL STREAMFLOW INFORMATION PROGRAM  
FFP = FLOOD FORECAST POINT  
NWG = NO-WAKE IMPLEMENTATION GAGE  
FDEP = FUNDED BY FDEP

IV = Index Velocity  
PCA = FUNDED BY PACKAGING CORPORATION OF AMERICA  
MFL = MINIMUM FLOW AND LEVEL IMPLEMENTATION GAGE