



# Fayette COUNTY

“WHERE QUALITY IS A LIFESTYLE”

**PURCHASING DEPARTMENT**  
140 STONEWALL AVENUE WEST, STE 101  
FAYETTEVILLE, GEORGIA 30214  
PHONE: 770-305-5420  
www.fayettecountyga.gov

To: Steve Rapson

From: Ted L. Burgess

Date: September 28, 2017

Subject: Contract#1385-S: USGS Water Flow & Stream Monitoring – FY 2018

Dissolved oxygen in the water of the county’s lakes, rivers, creeks, and streams is important to the quality of the water. One can expect the amount of dissolved oxygen in the water to be lowest during times of low flow in the waterways. A common measure of low flow is called “7Q10” which is the lowest stream flow over a seven-day period that can be expected every ten years.

Each year, the U.S. Department of the Interior, U.S. Geological Survey (USGS) and the county enter into an agreement whereby the USGS maintains real-time stream gauges that are placed in various locations throughout the county, which facilitate the 7Q10 calculation.

The locations of the stream gauges, and the price to maintain each, are as follows:

	Stream Guage Locations	FY 2016	FY 2017	FY 2018	Change 2017-2018
02344396	Flint River at Woolsey Road	14,000	14,250	14,600	2.5%
02344605	Line Creek downstream of GA 54	14,000	14,250	19,900	39.6%
02344620	Shoal Creek at GA 54	14,000	14,250	14,600	2.5%
02344360	Line Creek below Lake McIntosh	49,800	51,000	48,000	-5.9%
02344327	Morning Creek at Westbridge Road	19,000	19,400	19,900	2.6%
02344724	Whitewater Creek at Eastin Road	14,000	14,250	14,600	2.5%
02344736	Whitewater Creek at Sherwood Road	14,000	14,250	14,600	2.5%
02344748	Whitewater Creek below Starrs Mill Dam	19,000	19,400	19,900	2.6%
02344650	Lake Kedron near Peachtree City	6,600	6,800	7,000	2.9%
02344655	Flat Creek downstream of Lake Kedron	41,700	43,800	35,100	-19.9%
02344671	Lake Peachtree at Peachtree City	6,600	6,800	7,000	2.9%
02344673	Flat Creek below Lake Peachtree	49,800	51,000	53,300	4.5%
02344424	Lake Horton near Peachtree City	6,600	6,800	7,000	2.9%
02344280	Lake Horton (Talrace) near Fayetteville	NA	NA	7,000	NA
02344280	Camp Creek at Helmer Road	14,000	14,250	14,600	2.5%
02344364	Nash Creek (bacteria only)	5,000	5,150	5,300	2.9%
		288,100	295,650	302,400	2.3%

The Water System states that the USGS has the only accepted method for reporting and compliance monitoring of open-channel streams. For this reason, they recommend contracting with USGS each year for the service. They report that they are satisfied with the services provided by the USGS, as seen in the attached Contractor Performance Evaluation.

For budget and expense purposes, it should be noted that this contract follows the Federal fiscal year, which begins on October 1 and ends on September 30 each year. For this reason, only a portion of the \$6,750.00 increase will be needed this county fiscal year, as shown below.

Specifics of the proposed contract are as follows:

<b>Contract Name</b>	1385-S: USGS Water Flow & Stream Monitoring – FY 2018		
<b>Vendor</b>	U.S. Geological Survey		
<b>Contract Term</b>	10/1/2017 to 9/30/2018 Corresponding with Fed Fiscal Year		
<b>Firm Fixed Price</b>	\$302,400.00 For the Federal Fiscal Year		
<b>Budget:</b>			
Fund	505		Water System
Org.	50543061		Water Laboratory
Object	521212		Licenses & Professional Fees
Currently Available	\$296,092.00		Budgeted for Fiscal Year 2018
Requested Transfer	<u>2,733.00</u>		From S. Fayette repairs & maintenance
Total Available	\$298,825.00		To pay current fiscal year invoices*

*First quarterly payment, at previous contract rate	\$72,025.00
Second quarterly payment, at new contract rate	75,600.00
Third quarterly payment, at new contract rate	75,600.00
Fourth quarterly payment, at new contract rate	<u>75,600.00</u>
Total for County Fiscal Year 2018	<u>\$298,825.00</u>