

MEMO

August 19, 2014

To: Finance Committee
Debbie Cyr
Fr: Brad Moore

Re: ADS Flow Monitoring Contract

As you may recall, the City has contracted with ADS Environmental Services since 2012 to provide equipment and technical assistance with our sewer flow monitoring program. City staff has assisted with the maintenance of the equipment but does not have the expertise to review and particularly to interpret the data. This contract includes the addition of two flowmeters along with the data analysis; one we will purchase and one we already have in our inventory. The increase in flow meter deployment is in response to increased efforts to characterize wastewater flows in various sections of our sewer collection system. The flow monitoring results will be used with our sewer system evaluation and asset management programs to determine the areas where the most cost effective sewer rehabilitation should take place.

This expenditure is included in the FY15 approved budget.



EXHIBIT A

June 16, 2014

City of Bangor, ME

Wastewater Treatment Plant

Long Term CSO and Temporary Metering Programs

EXHIBIT A

Scope of Work

ADS will provide meter maintenance at 5 existing CSO and 5 temporary I/I metering locations in the City of Bangor, ME. Michael Armes, Sr. Project Manager, will be designated as the immediate contact for this project. ADS will also install and maintain two additional FlowShark Triton meters to be included with the temporary locations making a total of 7 temporary I/I metering locations. One of the additional meters will be provided by City of Bangor and the other will be a new Triton meter purchased by Bangor. The services include the following:

1.0 Site Specific Equipment

ADS has provided the FlowShark CG for the AC powered locations and the FlowShark AG for the battery powered CSO locations. These ADS meters include depth and velocity sensors to measure overflow duration and volume. FlowShark Triton meters have been installed at the I/I locations. One additional City of Bangor owned FlowShark Triton meter and one additional purchased Triton meter will be installed/maintained.

2.0 Data Transmission

Data is transmitted to the Bangor Wastewater Treatment Facility by radio communication at 3 locations. The ADS FlowShark CG provides two 4-20ma output signals to Client supplied radios. Radio system maintenance will continue to be the responsibility of the Client. Two locations use the FlowShark AG with battery power and no radio communication at this time. Both the FlowShark CG and AG are equipped with wireless modems and AT&T SIM cards. FlowShark Triton meters are installed at 5 locations and all use wireless GSM modem with AT&T SIM cards for data transmission. The two additional FlowShark Triton meters will use the same wireless GSM modem for transmitting data.

3.0 Power, Data Management and SCADA interface

Power –The ADS FlowShark CG meters have AC power modules that are connected to supplied AC power. The FlowShark AG operates with internal DC 12v battery with life expectancy of approximately 6 months depending on the cellular communication

strength. The FlowShark Triton also utilizes DC 12v with battery life expectancy of 12 months.

Radio Transmission - The FlowShark CG has two 4-20ma outputs for transmission of flow and (for example) depth. The Client supplied radio system is connected for transmission to the host system. The FlowShark CG and AG meters also have wireless modems. This allows ADS to do a remote access and diagnostic as well as remote data downloads.

Data Analysis Support – ADS will review all data. Monthly reports presenting data for all 12 meters will be available in IntelliServe and on the ADS FlowView Portal website where data can be downloaded and printed.

4.0 Maintenance and Service

City of Bangor will provide one attendant to ADS' Field Supervisor to provide necessary maintenance and service of the flow meters.

EXHIBIT B SERVICE BY OWNER

Owner agrees to perform the following functions in connection with the Agreement:

1. **Coordination with Project Manager:** Owner agrees to coordinate as required with the ADS Project Manager and to provide information in a timely manner to ensure that implementation schedules are met.
 - a. **GIS Data.** Owner agrees to provide GIS data to the level of detail required for GIS displays in IntelliServe.
 - b. **Third Party Data.** Owner agrees to provide all Third Party Monitor data (Rain Gauge) in a format acceptable to ADS.
2. **Interface:** Owner agrees to make no changes in the equipment or software that would preclude ADS from being able to interface via telephone with Owner's ADS flow monitoring equipment unless agreed to by ADS in writing.
3. **Assistance:** Owner shall not to make repairs or perform maintenance or attempt to do so on the equipment unless authorized by ADS.
4. **Electronic Access:** Owner agrees to allow ADS to address the system electronically for purposes of running diagnostics tests and performing other functions in the course of this maintenance phase of the project.
5. **Telephone Charges:** Monthly AT&T access fees are included in the costs proposal.
6. **Permits:** Owner agrees to provide all licenses and permits necessary for ADS to perform the work, if required.
7. **Access:** Owner agrees to provide ADS with access to the flow monitoring sites on public and private lands including sufficient area for placement of personnel and equipment, including all rights-of-way and ramp, if required. This includes, but is not limited to, exposing manholes, clearing easements and/or constructing roads or ramps suitable for truck/van, if necessary, and pump station access.
8. **Pump Stations:** Owner agrees to provide personnel to manually operate pump stations when maintenance or repair of a flow monitor requires.

9. **Electric Charges.** Owner assumes responsibility for monthly electric charges to power the ADS FlowShark meters.
10. **Line Cleaning.** Owner agrees to provide line cleaning for lines that require cleaning to improve the operation of the flow monitoring equipment.

EXHIBIT C

ADS'S COMPENSATION –FLOWSHARK CG, AG AND TRITON METER SERVICE

Item	Quantity	Unit Price	Total
1.) Field Maintenance and Data Analysis of 10 ADS Meters, July 1, 2014 – Jun 30, 2015			
a.) Field Maintenance – one ADS Field Manager with support crew member from Bangor	12 months	\$5,159	\$61,908
b.) Data Analysis	12 months	\$2,207	\$26,484
2.) IntelliServe and SIM charges July 1, 2014 – Jun 30, 2015			
a.) IntelliServe monthly service for all sites.	12 months	\$440/month	\$5,280
b.) AT&T SIM – 5 FlowSharks – Jul 1, 2014-Jun 30, 2015	5 meters x 12 months	\$27/month	\$1,620
c.) AT&T SIM – 6 Tritons – Jul 1,2014 – Jun 30, 2015	6 meters x 12 months	\$27/month	\$1,944
3.) New Equipment			
a.) FlowShark Triton meter with GSM modem.	1 unit	\$6,982	\$6,982
b.) Installation of additional unit	1 unit	\$976	\$976
c.) Field Maintenance – one ADS Field Manager with support crew member from Bangor	12 months	\$469	\$5,628
d.) Data Analysis	12 months	\$200	\$2,400
e.) AT&T SIM – 1 Triton – Jul 1,2014 – Jun 30, 2015	1 meter x 12 months	\$27/month	\$324
		TOTAL	\$113,546

***Pricing Assumptions:**

- **ADS to provide 1 person field crew and provide Bangor to provide 2nd confined space certified crew person.**
- City of Bangor to provide support if meters are down and need to be investigated under ADS direction.
- No prevailing wage or W/MBE required;
- Federal, State, or Local taxes or permit fees not included;
- Standard ADS safety and installation methodology
- Standard traffic control requirements (cones & simple signs)

In Witness Whereof, the Parties hereto have executed this Agreement, on this ____ day of _____, 20__.

Customer:

ADS:

By: _____

By: _____

Title: _____

Title: _____

Date Signed: _____

Date Signed: _____