

FIRST AMENDMENT TO  
CITY OF PEORIA/GREATER PEORIA SANITARY DISTRICT  
INTER-GOVERNMENTAL AGREEMENT

THIS AMENDMENT made the \_\_\_\_\_ day of \_\_\_\_\_, 2015, by and between the CITY OF PEORIA, ILLINOIS, a municipal corporation, hereinafter referred to as CITY, and THE GREATER PEORIA SANITARY AND SEWAGE DISPOSAL DISTRICT, Peoria, Illinois, a municipal corporation, hereinafter referred to as DISTRICT.

WHEREAS, the CITY and the DISTRICT entered into an Inter-Governmental Agreement dated December 22, 1987 where the DISTRICT handles certain billing and customer service tasks for the CITY for its sewerage collection system, with the balance remitted to the CITY; and

WHEREAS, the CITY has made a commitment to USEPA to complete a Green Infrastructure Data Collection and Analysis Plan as part of its Combined Sewer Overflow Long Term Control Plan which will require collecting additional flow information within the combined sewer system; and

WHEREAS, the DISTRICT agrees to cooperate with and assist the CITY in the collection of this flow data; and

WHEREAS, the CITY and DISTRICT agree that the DISTRICT will obtain services from ADS Environmental Services to furnish equipment, install and collect data in order to aid the CITY in completing its Green Infrastructure Data Collection and Analysis Plan.

NOW, THEREFORE, in consideration of the mutual promises and covenants hereinafter set forth, it is agreed by and between the CITY and the DISTRICT as follows:

1. The CITY and the DISTRICT agree that the total costs charged by ADS shall be split forty-five percent (45%) by the CITY and fifty-five percent (55%) by the DISTRICT. The total costs charged by ADS are estimated to be \$410,000 (see attached Exhibit A and Exhibit B).
2. The CITY portion shall be offset by the DISTRICT, in the DISTRICT's sole discretion, from those payments due CITY pursuant to the December 22, 1987 Agreement.
3. Such offset shall continue until such time as the DISTRICT determines the CITY portion of the ADS fees are paid in full.
4. All other terms of the December 22, 1987 Agreement shall remain unchanged.

IN WITNESS WHEREOF, the parties hereto, pursuant to authority granted by Resolutions duly adopted by their respective governing bodies, have caused these presents to be executed by their authorized officers, attested, and their corporate or official seals to be affixed, on the day and date first written above.

CITY OF PEORIA

THE GREATER PEORIA SANITARY  
AND SEWAGE DISPOSAL DISTRICT

\_\_\_\_\_  
City Manager

\_\_\_\_\_  
President

Date Signed: \_\_\_\_\_

Date Signed: \_\_\_\_\_

ATTEST:

ATTEST:

\_\_\_\_\_  
City Clerk

\_\_\_\_\_  
Clerk

REVIEWED AND APPROVED:

\_\_\_\_\_  
City Attorney

\_\_\_\_\_  
Public Works Director



**Quotation for: Peoria Sanitary District**

**2322 S Darst St,  
Peoria, IL 61607**

**ATTN: Mr. Stan Browning**

**Reference: ADS FlowShark Triton+ Equipment Pricing**

<b>REFERENCE NO.</b>	PEORIA.EQP.IL15
<b>DATE</b>	4/29/2015
<b>TERMS</b>	Net 30 days
<b>SHIPMENT</b>	See below
<b>DELIVERY</b>	30 days ARO
<b>PRICE VALIDITY</b>	60 days

Item	QTY	ADS Triton+ Flow Metering Systems	UNIT PRICE	TOTAL
P1.	30	<b>FlowShark Triton+ Flow Metering System:</b>  Area Velocity Monitoring System with internal 3G/4G modem, mini wing antenna, 6-Month data SIM card, dual sensor ports, Intrinsically-Safe (IS) certification by IECEx for use in Zone 0/Class I, Division 1, high-impact, ABS plastic canister, and enclosed circuit board dome enclosure.  P/N: 8000-FST-IM-GL	\$ 3,500.00	\$ 105,000.00
P2.	30	<b>Peak Velocity Combination Sensor:</b>  Continuous Wave Peak Velocity, Uplooking Ultrasonic Depth and Pressure Depth measurement technologies in one sensor housing.  P/N: 8K-CS4-05-35	\$1,325.00	\$39,750.00
P3.	30	<b>Ultrasonic Level Sensor:</b>  Ultrasonic Downlooking Depth Sensor Technology.  P/N: 8K-CS5-D1-00-30	\$1,025.00	\$30,750.00

**ADS Environmental Services**  
 7215 E. 21<sup>st</sup> Street – Suite D – Indianapolis, IN 46219  
 Tel: 708.341.9701 EMAIL: cskehan@idexcorp.com  
  
**Website**  
[www.adsenv.com](http://www.adsenv.com)

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P4.	30	<b>Equipment Installation Kit:</b> <ul style="list-style-type: none"> <li>• Monitoring Hook / Mounting</li> <li>• Installation Ring or Mounting Hardware (independent for each monitoring location)</li> <li>• Ultrasonic Sensor Mounting Plate / Surface Velocity Combo Mounting Plate</li> <li>• Cable Ties, Antenna Resin Pack,</li> <li>• Optional Anchor Mounting Bolt/Flange (determined upon installation)</li> </ul> <p>P/N: IKIT</p>	\$395.00	\$11,850.00
<b>TOTAL</b>				<b>\$187,350</b>

The above prices include shipping charges via ground freight to Peoria, IL or our Local Installation service office.

The above prices do not include applicable sales or use taxes and will be added to the invoice, unless otherwise noted. (tax exemption must be on file with ADS)

The above prices do not include any special, modified, or custom documentation or manuals that may be required. Standard ADS Environmental Services manuals, appropriate to the flow monitors delivered, are included with the equipment.

Acceptance of this proposal for the purchase of ADS Products constitutes your and/or your company's agreement to ADS' Standard Terms and Conditions of Sale found at: <http://www.adsenv.com/equipmenttermsandconditions>  
ADS' Terms and Conditions supersede any terms and conditions in any documentation submitted by you and/or your company as a buyer of ADS products.

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## Project Approach and Understanding

For this project, ADS has been in a number of detailed conversations with Greeley and Hansen and GPSD to gain a better understanding of this project and the overall goals of the flow monitoring services:

- ✓ **Site Reconnaissance** – ADS will perform a detailed site reconnaissance on each of the 30 selected monitoring locations, to determine the overall site safety, create a general traffic control plan (for low/light traffic areas), overall installation access, metering hydraulics, and other installation detail notes. If a site is not suitable for installation, or any other unfavorable conditions are determined during these recons, alternative site locations upstream/downstream will be investigated. If the required/selected installation location requires relocation, ADS will discuss this with the owner/consultant prior to performing any installations.
- ✓ **Professional Installation** – Once the candidate manhole has been identified and a site recon performed, ADS will begin installation of the district owned equipment. ADS certified field crews and fleet vehicles are equipped with all of the necessary safety and installation tools required for installation of ADS monitor systems.
- ✓ **Initial Site Calibrations** – After Installation, ADS will perform an initial site calibration to verify the working order and accuracy of the installed equipment. This typically includes a manual depth reading and manual velocity reading, which is then compared to the actual monitoring readings, in real-time. ADS Triton+ systems are robust and offer many advanced features to help ensure the initial installations are calibrated to capture the best possible results. However, further calibration may be required during the course of the monitoring study period.
- ✓ **Data Collection and System Maintenance** – ADS will assign a data analyst to collect and review the data for these monitoring sites, twice weekly. The analyst will be responsible for ensuring the data collected appears to be reasonable with the expected flow conditions at the monitoring location, and will assign work orders to field crews for any required maintenance, troubleshooting, or additional calibrations during the course of this project. A local ADS field crew will be responsible for responding to any issued work orders from the data analyst or project manager, and will ensure the equipment is in working order for the duration of the project.
- ✓ **Project Deliverables** – ADS will provide secure access to the FlowView system for the client and others designated consultants and employees. Each user will receive a unique login and password in order to access the web based system and their assigned flow monitoring sites. In addition to web based data access and it's "on demand" data collection features, this system will also serve as the means of posting all QA/QC data for further analysis and review. The system itself allows for users to download any raw or posted data, however, if additional data deliverables are required, ADS can often accommodate these request by having a more detailed discussion with the owner/client. ADS will conduct a training session for this system if needed.

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### *Proposed Scope of Work*

ADS Environmental Services (“ADS”) will perform a temporary flow-monitoring project in coordination with the Greater Peoria Sanitary District using their thirty (30) purchased ADS Triton+ Flow Metering Systems. This scope of work is described as follows:

#### **Phase I – Mobilization**

- 1) Preliminary Meeting: Phase I will begin with a preliminary meeting/conference call with the project team. The purpose of the kick-off meeting is to discuss project scope, establish lines of communication, set milestones, and set the project schedule.
- 2) Site Locations: Client in cooperation with ADS will identify/verify location of monitor locations.
- 3) Site Investigations: Once the sites are identified, ADS field crews will begin site investigations. The proposed flow monitoring locations will be located and descended and verified for hydraulic suitability. ADS will also check for debris in the manhole that could impact data quality; ADS will notify CLIENT of any cleaning requirements. ADS field crews will look for evidence and signs of erratic flow patterns.
- 4) Site Reports: Upon completion of the investigations, the ADS field crew will complete a site report for each location. The site reports will include a sketch of the general location, physical characteristics and diameters of the proposed monitoring locations, manhole depths, flow measurements, and other comments pertinent to the location such as any special traffic or safety issues. As requested, ADS will also indicate the location, and note how far upstream or downstream the meter is located from manhole.
- 5) Equipment: ADS will utilize the ADS Model Triton+ flow monitor during the course of this project. A typical monitor installation will include an ultrasonic depth sensor that will be mounted at the crown of the pipe; a redundant pressure depth sensor mounted at the invert; and a Doppler velocity sensor also mounted at or near the invert. This equipment was purchased by the client prior to performing this project.
- 6) Monitor Activation: Once installed, the monitor will be activated and set to take readings at 5-minute intervals. Field crews will take manual depth readings with a ruler and velocity readings with a portable, instantaneous velocity meter in order to confirm the monitor is collecting accurate data based on the actual existing hydraulic conditions at each location.

#### **Phase II – Flow Monitoring**

- 1) Flow Monitoring: Once the flow monitors, and rain gauges are installed and confirmed, ADS will monitor the flows for an initial period of **6 months** (“monitoring period”). This initial period can extend beyond the original duration per the prices set forth in the contract.
- 2) Preventative Maintenance: ADS is an ISO 9001 certified company and has proprietary internal quality procedures for all fieldwork. During the course of the project and as part of ADS’ quality control program, the field manager will visit each location and reconfirm that the monitor is in proper working condition. This includes cleaning depth and velocity sensors, confirmations as

needed, and checking an installation to make sure that the ring is secure in the pipe. The ADS data analyst will also review the data on a regular basis throughout the monitoring period.

- 3) **Maintenance Services:** Service for the flow monitors involves troubleshooting the common faults that are repairable in the field. More complex problems are left to trained electronic technicians, and off-site technicians. Common service problems are sensor scrubs to clear any debris, sensor replacements, battery changes, and internal board replacements.
  - a. **Schedule:** The field service maintenance shall accommodate normal operating hours of 8:00 a.m. to 5:00 p.m. Monday through Friday
  - b. **Response Time:** ADS will investigate, troubleshoot, and attempt to repair any perceived malfunction or monitor or communication equipment within three (3) business days of discovery of the malfunction. Depending on the condition of the problem or access to the location, this response time may vary.
  - c. **Traffic Control Assistance:** ADS may require local traffic control for some of the required installation locations outlined. As such, ADS will contract with a local firm to assist with traffic control and site safety.
- 4) **Data Collection:** Once activated and confirmed to be working properly, field crews will visit the monitored locations on a routine basis or as scheduled by an analyst who will be reviewing the data. Each monitor will be collected twice weekly by the analyst, using the equipment's wireless modem. Depth and velocity data will be collected and reviewed and flow will be calculated by the data analyst.
- 5) **Demobilization:** ADS will continue weekly data collections, confirmations (as necessary), and necessary maintenance until the end of the monitoring period. Once authorized by the client, crews will remove the flow monitors and deliver final data to the data analyst.

### **Phase III – Data Analysis and FlowView Access and Reporting**

- 1) **Data Analysis:** During and upon completion of the monitoring period, a trained ADS data analyst will analyze all of the data. The data analyst will directly calculate flow using the continuity equation from recorded depth and average velocity data. If required, ADS may utilize the Manning's Equation or a Flume/Wier equation to calculate the flow. All flow quantities as determined by the selected equation will be plotted. The analyst will also utilize scattergraphs (depth vs. velocity readings) to verify monitor accuracy. Within thirty days (30) days of the end of the monitoring period, ADS will provide all QA/QC'd data via the ADS FlowView reporting system. The analyst will also be responsible for creating any maintenance work orders for this project.
- 2) **ADS FlowView Web-Based Reporting:** ADS will provide the Engineer's management team and client with the ability to collect the meter data to generate and examine predefined or user defined interactive reports using the ADS FlowView Web-Based reporting system. FlowView is a hosted system, offering "on-demand" data services and is available via the internet using the Internet Explorer web browser. Each user of the system will have a unique login and password, customizable for different levels of data access, sharing and viewing. (Info Attached)

The system will include the ability to generate and view:

- Weekly and monthly hydrographs of depth, velocity, flow, and rain for each site;
- Scattergraphs for each site;
- Tabular depth, velocity, and flow data in both monthly summary form and native interval form;
- Detailed site reports,
- Posted documents (additional images, maintenance logs, etc.), and;
- On Demand data by performing a “demand pull” within the software

- 3) Library of Final Data: ADS will store all edited and final flow and rainfall data within the ADS FlowView system, which will be available to Owner as needed, and for up to 90 days after the monitoring study. Monthly finalized data will be posted to the system by the 30th day of the month (prior month’s data). ADS will also provide all of the final data electronically in excel format at the end of the monitoring study.

Owner Activities: Owner (and consultants) agrees to perform the following functions in connection with this project. Certain activities must be acknowledged prior to ADS having an obligation to perform services enumerated herein.

- The Owner will be responsible for coordinating the required site locations for this project, using maps, atlas pages, or GIS mapping files.
- The Owner will be responsible for coordinating any necessary cleaning in required locations, where debris may be present.
- Owner will designate a project manager or primary point of contact to coordinate ADS’s work and to act as the Owner’s representative with respect to the work performed under this Agreement.
- Owner will provide access to and assist ADS to enter upon public and private lands as required for ADS to perform work under this Agreement; this excludes any regards to traffic control, which will be handled between ADS and a local sub-consultant.
- Owner will not make repairs or perform maintenance or attempt to do so on the equipment covered under this Agreement unless authorized by ADS. This shall include removal, repair, relocation or installation of monitoring equipment.
- Owner will assist ADS in obtaining any specialized City Permits to perform this work (if applicable).



### Fee for Services

The following table provides our fee for these services in conjunction with this project.

Task	Qty	Units	Unit Cost	Total Cost
Flow Monitor Site Investigation and Installation	30	Each	\$1,050.00	\$31,500.00
Flow Monitor Data Collects, Maintenance, Data Finalization	180	Per meter /month	\$830.00	\$149,400.00
FlowView Web Hosted System and Reporting	1	Per Project	Included	Included
Sub Total				\$180,900.00
Anticipated Traffic Control Costs – At Cost from Local Vendor + 12%	D.U.R.	D.U.R.	D.U.R.	\$33,453.00
<b>Project Total</b>				<b>\$214,353.00</b>

### Pricing Assumptions:

The pricing provided in the attached table is based on the following assumptions:

- No local taxes included – Tax Exempt Municipality;
- Report Deliverables are via FlowView and Excel Data Deliverables;
- ADS Terms and Conditions (negotiated)
- D.U.R. = Dependent Upon Requirements
  - a. ADS Estimated 14.75 – 15.50 Work Days needed for Traffic Control
  - b. MCS Traffic Control quoted ADS a daily rate @ \$1,975/day

TABLE 1  
GREATER PEORIA SANITARY DISTRICT  
Riverfront Interceptor - Proposed Monitoring Plan

Greeley and Hansen  
April 2015

Meter Name	Location	Purpose	Proposed Instrument (Pending ADS Input)	Nearest Intersection	Pipe Size, in (if applicable)	Proposed Installation Manhole <sup>2</sup>
000-05FT	Riverfront Interceptor Upstream of Walnut St. Connection	Flow	Ultrasonic + Peak Combo	Walnut St. and Water St.	66	P09C001302 (Upstream)
000-06FT	Separate Area 29A, Tributary to Interceptor	Flow	Ultrasonic + Peak Combo	Grant St. and Jefferson Ave.	39	P03B010947 (Upstream)
000-07FT	Separate Area 29B, Tributary to Interceptor	Flow	Ultrasonic + Peak Combo	Lake and Shady Oak	15	R22C009535 (Upstream)
000-08FT	Separate Area 29C, Tributary to Interceptor	Flow	Ultrasonic + Peak Combo	London Ave. and Prospect Rd.	21	R27C009948 (Downstream)
003-02FP	Upstream of Spring St. Regulator (003)	Flow	Ultrasonic + Peak Combo	Spring St. and Adams St.	60	P03D011236 (Downstream)
003-03FP	Upstream of Caroline St. Regulator	Flow	Ultrasonic + Peak Combo	Adams St. and Caroline St.	36	P03C011165 (Downstream)
003-04LT	In Caroline St. Regulator	Depth, calculate flow	Ultrasonic + Peak Combo	Bond St. and Caroline St.	36	Upstream Side of Regulator (P03C011195)
006-03FP	Upstream of Eaton (006) Swirl Concentrator	Flow	Ultrasonic + Peak Combo	Commercial St. and Eaton St.	72	P09B000707 (Max Downstream of Bend)
007-03FP	Upstream of Fayette (007) Swirl Concentrator	Flow	Ultrasonic + Peak Combo	Washington St. and I-74	72	P09B000783 (Upstream)
007-04FT	Downstream of Fayette (007) Swirl Concentrator in Throttle Pipe	Flow	Ultrasonic + Peak Combo	Washington St. and I-74	30	P09B000805 (Upstream)
007-05FT	Separate Area 18A, Tributary to Fayette Regulator (007)	Flow	Ultrasonic + Peak Combo	California Ave. and Gift Ave.	20" x 30"	R33B010485 (Upstream)
009-02FP	Downstream of Fulton St. Regulator (009) in Throttle Pipe	Flow	Ultrasonic + Peak Combo	Liberty St. and Washington St.	16	P09B020768 (Upstream)
009-03LT	In Fulton St. Regulator (009)	Depth, calculate flow	Ultrasonic + Peak Combo	Fulton St. and Washington St.	24	Upstream Side of Regulator (P09B001025)
014-01FT	Upstream of State St. Regulator (014)	Flow	Ultrasonic + Peak Combo	State St. and Water St.	36" x 36"	P09D001372 (Upstream)
016-02FP	Upstream of Cedar St. Regulator (016)	Flow	Ultrasonic + Peak Combo	May St. and MacArthur Hwy (Cedar St)	84	P08C000636 (Max Upstream)
016-03FP	Upstream of Water St. Regulator	Flow	Ultrasonic + Peak Combo	Pecan St. and Water St.	36" x 50"	P16A020804 (Upstream)
016-04LT	In Cedar St. Regulator (016)	Depth, calculate flow	Ultrasonic + Peak Combo	Washington St. and MacArthur Hwy (Cedar St)	72	Upstream Side of Regulator (P16A001674)
017-02FP	Upstream of South St. Regulator (017)	Flow	Ultrasonic + Peak Combo	South St. and Washington St.	48	P17B002034 (Downstream)
017-03LT	In South St. Regulator (017)	Depth, calculate flow	Ultrasonic + Peak Combo	South St. and Washington St.	48	Upstream Side of Regulator (P17B002039)
017-04FT	Downstream of South St. Regulator (017) in Throttle Pipe	Flow	Ultrasonic + Peak Combo	South St. and Washington St.	15	P17C002116 (Upstream)
018-04FP	Upstream of Sanger St. Regulator (018)	Flow	Ultrasonic + Peak Combo	Sanger St. and Washington St.	48	P17D002148 (Upstream)
018-05FP	Upstream of Washington St. Regulator West of Sanger St.	Flow	Ultrasonic + Peak Combo	Blaine St. and Washington St.	44	P17D002186 (Upstream)
018-06FP	Upstream of Washington St. Regulator East of Sanger St.	Flow	Ultrasonic + Peak Combo	Cherry St. and Washington St.	28" x 42"	P17D002143 (Upstream)
018-07LT	In Sanger St. Regulator (018)	Depth, calculate flow	Ultrasonic + Peak Combo	Sanger St. and Washington St.	48	Upstream Side of Regulator (P17D002155)
018-08LT	In Washington St. Regulator West of Sanger St.	Depth, calculate flow	Ultrasonic + Peak Combo	Sanger St. and Washington St.	44	Upstream Side of Regulator (P17D002159)
018-09LT	In Washington St. Regulator East of Sanger St.	Depth, calculate flow	Ultrasonic + Peak Combo	Sanger St. and Washington St.	28" x 42"	Upstream Side of Regulator (P17D002157)
019-02FP	In Darst St. Regulator (019)	Flow, Depth	Ultrasonic + Peak Combo	Crowell St. and Darst St.	84	Upstream Side of Regulator (P19B001845)
019-03FT	Downstream of Darst St. Regulator (019) in Throttle Pipe	Flow	Ultrasonic + Peak Combo	Darst St. and Montana St.	24	P19B002463 (Upstream)
019-04FT	Separate Area 2B Tributary to Darst St. Regulator (019)	Flow	Ultrasonic + Peak Combo	Vista View Ct. and Sterling Ave.	27	P07D001458 (Downstream)
019-05FT	Separate Area 2A Tributary to Darst St. Regulator (019)	Flow	Ultrasonic + Peak Combo	Laramie St. and Malone St.	15	L13B003623 (Upstream)