



Metropolitan Water Reclamation District of Greater Chicago

100 East Erie Street
Chicago, IL 60611

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Title: Issue a purchase order and enter into an agreement with the University of Illinois at Urbana-Champaign for professional engineering services for Contract 10-236-3C, TARP Modeling - Phase III of the Calumet TARP System, in an amount not to exceed \$585,138.00, Account 401-50000-601410, Requisition 1297058

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Date	Ver.	Action By	Action	Result
2/4/2010	1	Committee of the Whole	Recommended	Pass
2/4/2010	1	Board of Commissioners	Approved	Pass

TRANSMITTAL LETTER FOR BOARD MEETING OF FEBRUARY 4, 2010

COMMITTEE ON PROCUREMENT

Mr. Richard Lanyon, Executive Director

Issue a purchase order and enter into an agreement with the University of Illinois at Urbana-Champaign for professional engineering services for Contract 10-236-3C, TARP Modeling - Phase III of the Calumet TARP System, in an amount not to exceed \$585,138.00, Account 401-50000-601410, Requisition 1297058

Dear Sir:

Authorization is requested to issue a purchase order and enter into an agreement with the University of Illinois at Urbana-Champaign (U of I) for professional engineering services for Contract 10-236-3C, TARP Modeling - Phase III of the Calumet TARP System.

This project will be conducted under the auspices of the Master Agreement between the U of I and the District authorized by the Board of Commissioners at the Board Meeting of September 19, 2002, and amended to extend the termination date by the Board of Commissioners at the Board Meetings of October 16, 2003 and September 18, 2008.

The purpose of the Master Agreement was to allow the District to directly take advantage of the expertise offered by the U of I Department of Civil and Environmental Engineering. This agreement has been used to date for hydraulic model studies of the Calumet Pumping Station, Calumet Water Reclamation Plant settling tanks, sediment management in the SEPA stations, Phase I Modeling of both Calumet and Mainstream/Des Plaines TARP systems, and Phase II Modeling of the Calumet TARP System.

The Board of Commissioners authorized TARP Modeling - Phase II of the Calumet TARP System on September 20, 2007. Under this project, the U of I is developing a complete hydrologic model and hydraulic

transient model for the Calumet System. The model will be used to optimize operation of the system as constructed, determine constraints in the system, identify physical changes that would improve performance, and allow for analysis of potential storm scenarios and facility improvements.

Phase III of the modeling work includes the development of the Illinois Urban Hydrologic Model (IUHM), which will provide more accurate estimates of the inflows to TARP than currently available. Due to the complexity of the pipe networks connected to TARP and the large amount of missing information and uncertainties, the U of I has proposed that the IUHM be utilized for the Calumet TARP service area. This scope of work will also include linking the hydrologic and hydraulic models together and creating a graphic user interface that will allow District staff to perform future model runs.

The time for completion of the Calumet Modeling is 12 months after award of the contract. There are no provisions in the agreement for the extension of time except for such reasonable period as may be agreed upon between parties. The deliverables to be provided under this agreement include:

- An integrated system of hydrologic and hydraulic models for the Calumet Service Area
- A tutorial outlining how to install and run the integrated model and training for District employees
- IUHM model and report
- Quarterly progress reports
- Additional reports as needed for special computational modeling studies

Two key personnel and 22,472 hours of university time are estimated for this work. The estimated average payroll rate is \$17.00/hour.

The components of the total fee for the agreement are as follows:

1. Direct Labor Costs:	\$384,474.00
2. Indirect Costs:	\$129,831.00
3. Reimbursable Direct Costs:	\$70,833.00
Total Fee (Not to Exceed):	\$585,138.00

Funds are available in Account 401-50000-601410.

Since the services to be provided are professional in nature, and the aforementioned university is reputable, it is recommended that the purchase order be issued without advertising, as per Section 11.4 of the Purchasing Act.

In view of the foregoing, it is recommended that the Director of Procurement and Materials Management be authorized to issue a purchase order to the University of Illinois at Urbana-Champaign, in an amount not to exceed \$585,138.00.

Requested, Joseph P. Sobanski, Director of Engineering, WSS:MVL

Recommended, Darlene A. LoCascio, Director of Procurement and Materials Management

Respectfully Submitted, Barbara J. McGowan, Chairman Committee on Procurement

Disposition of this agenda item will be documented in the official Regular Board Meeting Minutes of the Board of Commissioners for February 4, 2010