



Metropolitan Water Reclamation District of Greater Chicago

100 East Erie Street
Chicago, IL 60611

Legislation Text

File #: 14-0766, **Version:** 1

TRANSMITTAL LETTER FOR BOARD MEETING OF AUGUST 7, 2014

COMMITTEE ON PROCUREMENT

Mr. David St. Pierre, 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 14-822-2C Dashboard Chicago Area Waterways Analysis System, in an amount not to exceed \$408,834.00, Account 201-50000-601170, Requisition 1382556

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 14-822-2C Dashboard Chicago Area Waterways Analysis 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, May 3, 2007, December 16, 2010 and March 15, 2012.

The purpose of the Master Agreement is to allow the District to directly take advantage of the expertise offered by the U of I. Under this project, the U of I, Department of Civil and Environmental Engineering will continue work initiated in the prototype project, which has produced a dashboard with an animation of major past storm events in terms of precipitation traversing the area and resulting waterway levels, gate positions, combined sewer overflows, and dissolved oxygen levels based on actual data. The additional work will extend the prototype to enable easier updating as new data are gathered and enable ease of use by District staff, enhance visualization of data in the dashboard, and improve performance. It will also complete analyses to better understand the conditions that lead to combined sewer overflows.

The time for completion of the additional dashboard development for the Chicago Area Waterways System CAWS is 18 months after award of the contract. The deliverables to be provided under this agreement include:

- Automate process for importing new data from various data sources to the dashboard database and include an anomaly detection component.
- Enhance the visualization of data in the dashboard interface, including improving the map data depiction, upgrading chart displays, and enabling the ability to increase the size of the storm library.
- Improve the performance of the dashboard to allow large data transfers more efficiently.
- Deliver the dashboard software and documentation.
- Analyze District dashboard data to identify operational trends and patterns.

The total cost of the project is \$408,834.00.

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 \$408,834.00.

Funds for the 2014 expenditure, in the amount of \$100,000.00, are available in Account 201-50000-601170. The expected expenditure for 2015 is \$280,000.00 and for 2016 is \$28,834.00 and are contingent on the Board of Commissioners' approval of the District's budget for those years.

Requested, Catherine A. O'Connor, Director of Engineering, WSS:KMF
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 August 7, 2014