



889-2017ADDENDUM 1

REQUEST FOR PROPOSAL FOR PROFESSIONAL CONSULTING SERVICES FOR A WATER EFFICIENCY STUDY AND PRELIMINARY DESIGN OF TREATED WATER PRODUCTION METERS AT THE REGIONAL PUMPING STATIONS

URGENT

PLEASE FORWARD THIS DOCUMENT TO WHOEVER IS IN POSSESSION OF THE REQUEST FOR PROPOSAL

ISSUED: November 10, 2017
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THIS ADDENDUM SHALL BE INCORPORATED INTO THE REQUEST FOR PROPOSAL AND SHALL FORM A PART OF THE CONTRACT DOCUMENTS

Template Version: Ar20160708

Please note the following and attached changes, corrections, additions, deletions, information and/or instructions in connection with the Request for Proposal, and be governed accordingly. Failure to acknowledge receipt of this Addendum in Paragraph 9 of Form A: Proposal may render your Proposal non-responsive.

PART D – SUPPLEMENTAL CONDITIONS

Revise: D5.6.1 to read: Complete AACE Class 5 cost estimates (-50% to +100%) as required in Task 6 and complete AACE Class 3 cost estimates (expected accuracy range -20% to +30%) as required in Task 7.

PART E – SPECIFICATIONS

Revise: E9.1 to read: Background

The City of Winnipeg has three (3) Regional Pumping Stations - G.C. MacLean, McPhillips and W.D. Hurst.

Each of the three (3) Regional Pumping Stations has two (2) treated water production meters. Four (4) of the treated water production meters are electromagnetic flowmeters (magmeters) and two (2) are differential pressure (venturi) flowmeters and they are located as follows:

- (a) Two (2) magmeters (one at each discharge) at the G.C. MacLean Pumping Station;
- (b) Two (2) magmeters (one at each discharge) at the McPhillips Pumping Station; and
- (c) Two (2) venturi flowmeters (one at each discharge) at the W.D. Hurst Pumping Station.

Each the three (3) Regional Pumping Stations relies on the treated water production meters for flow pacing of chlorine disinfection.

Volumetric drop testing has been used in the past to verify the accuracy of the treated water production meters at the three (3) Regional Pumping Stations. This has yielded varying results.

The treated water production magmeters at the G.C. MacLean and McPhillips Pumping Stations are of 1960's vintage and spare parts are no longer available.

In 2016, the City participated in AWWA's WLCC WADI Project. After receiving a level 1 validation, treated water production meters were identified as a priority area for attention.

The available data for the pumping capacity in megalitres per day at the three (3) Regional Pumping Stations is as follows:

Design Parameter	MacLean	McPhillips	Hurst
Process Flow (ML/day) ¹			
Range (min-max) ¹	36.2-103.3	10.4-117.3	10.5-168
Average	63.7	54.3	98.4
Installed Capacity	318.0	436.2	499.1
Firm Pumping Capacity ²	254.4	363.5	408.2

¹ Determined from 2005 to 2010 operations.

² Maximum pumping capacity with largest pump not operating.

Revise: E9.2.4(k)(i) to read: Opinion of probable cost to be an AACE Class 3;

Add: E10 REFERENCE DRAWINGS

E10.1 The reference drawings provided are for informational purposes only and the City makes no claim or liability to the accuracy of the information provided.

<u>Drawing No.</u>	<u>Drawing Name/Title</u>
WH5622-27	Wilkes Ave. Pumping Station Venturi Meter Pit Det's
McP-23	McPhillips Street Pumping Station Contract "A" Mechanical – Plan Above Elevation 749.0
ME-1	Metro East Pumping Station and Reservoir General Arrangement of Pumping Units

DRAWINGS

Add: 889-2017 Drawing WH5622-27-R0
889-2017 Drawing McP-23-R0
889-2017 Drawing ME-1-R0

APPENDICES

Add: Appendix C Photos