



## 781-2021 ADDENDUM 4

Professional Consulting Services for St. Charles Wastewater Sewer District  
Preliminary Design

### **URGENT**

**PLEASE FORWARD THIS DOCUMENT TO  
WHOEVER IS IN POSSESSION OF THE  
BID/PROPOSAL**

ISSUED: March 4, 2022  
BY: Stephanie Dela Cruz  
TELEPHONE NO. 204 391-5858

**THIS ADDENDUM SHALL BE INCORPORATED  
INTO THE BID/PROPOSAL AND SHALL FORM  
A PART OF THE CONTRACT DOCUMENTS**

Template Version: Add 2021-03-05

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**Please note the following and attached changes, corrections, additions, deletions, information and/or instructions in connection with the Bid/Proposal, and be governed accordingly. Failure to acknowledge receipt of this Addendum in Paragraph 10 of Form A: Bid/Proposal may render your Bid/Proposal non-responsive.**

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### **QUESTIONS AND ANSWERS**

- Q1: At the February 28th Site Investigation, it was stated that the hydraulic models for the West Perimeter, St. Charles and Westwood Sewer Districts were to be calibrated for dry weather flow. In response to this request:
- a. Please confirm that model calibration for dry weather flow is required.
  - b. To evaluate our efforts for this task, please provide the following information for the West Perimeter and Westwood Sewer Districts: Number of monitoring locations, duration of monitoring, and confirmation that the monitoring data has been analysed and reviewed to ensure it's usable for calibration purposes.
- A1: Please refer to Appendix F: CoW Modeling Guidelines. Dry weather flow and wet weather flow calibrations are part of model maintenance. Additional dry and wet weather data will be provided for West Perimeter, St Charles and Westwood. The additional data is compiled from existing SCADA and flow monitoring data. Please review and use your judgement to determine whether the data is suitable for model maintenance. If it is determined that additional flow monitoring data is required to complete the model calibration, this work may be funded from the additional work allowance.
- Q2: At the February 28th Site Investigation, it was stated that updates to the existing hydraulic models were required as part of the project. The only updates foreseeable by our project team would be updating the model to a full pipe model where not already in place. This would include all sewer mains (and manholes) 200 mm in diameter and greater. Please confirm if this is the level of hydraulic model the City is looking for.
- A2: Please refer to Appendix F: CoW Modeling Guidelines
- The model update work is essentially a confirmation of new information needed to update the existing model, and a quality control check of the existing model representation. Aspects of each of these general tasks are listed below:
  - Confirm any missing/incorrect model representations for the Westwood, St Charles and West Perimeter sewer districts, including missing pipes/manholes for newer areas in the all pipes model as mentioned in the question.
  - Confirm the proper representation of the sub-catchments, runoff surface type percentages, pipe segments, etc in accordance with CoW Modeling Guidelines.
  - All of the above then requires the calibration and validation to actual flow data. This requires modification to the model parameters to ensure the simulation produces results similar to actual conditions.