



Project:	Lake Geraldine Dam Civil Improvements
RFT #	2022-RFT-028
Addendum #	2
# Of Pages	7
Date:	Tuesday May 17, 2022
Document ID:	P7201-313612880-86(1.0)

The following change(s) in the Tender Documents are effective immediately.
 This Addendum forms part of the Contract Documents.

ITEM	DESCRIPTION
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2.1 Bidder Inquiry

Question: The sensors and data loggers need to be sent to the consultant for configuration, please confirm the location where they need to be sent. Will the consultant cover the fees associated to sending the sensors and logger to Iqaluit after configuration?

Response: All equipment requiring configuration is to be sent to 2327 St. Laurent Blvd, Suite 100 Ottawa, ON, K1G 4J8. The consultant will cover the cost of shipping from their location to Iqaluit, however the contractor will be responsible for collecting the equipment in Iqaluit and delivering/installing it on site.

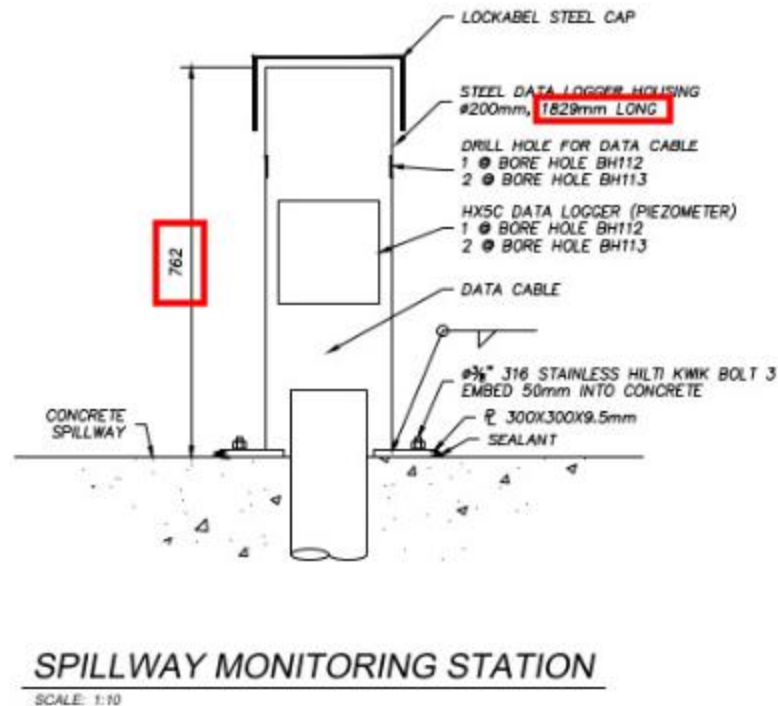
2.2 Bidder Inquiry

Question: In the typical monitoring station drawing the pile is shown to be inside of concrete. If the pile is installed then filled with concrete to a depth of 1200mm, is the concrete casing necessary?

Response: The “*Typical New Monitoring Station*” detail at the bottom right corner on drawing sheet Fig 1 does not indicate that concrete is to be installed inside the casing, only around the base below grade. The “*Typical Berm Survey Monument Detail*” for the survey monuments (drawing Fig 2) does include concrete around the base and within the steel casing, quantity 5.

2.3 Bidder Inquiry

Question: In the spillway monitoring station drawing, the height of the data logger housing has two different values as highlighted in the drawing. Please specify which is to be used.



Response: Use the “762” mm value that is indicated on the left side of the detail. Please note that the monitoring stations at the base of the spillway shall have an angled base to accommodate the slopes surface of the concrete spillway, the steel casing should be installed so that it is in a vertical alignment.

2.4 Bidder Inquiry

Question: The timeline shows contract award being on June 27th but the cut-off for the sealift is June 15th/20th. This would mean that the materials would only make the second sailing which arrived in Iqaluit on August 22nd last year. This does not provide much time to complete the work for a substantial completion date of August 31st 2022. Would the substantial completion date be able to be moved back to October 1st 2022?

Response: The substantial completion date is extended to October 1st, 2022.

2.5 Bidder Inquiry

Question: Would you be able to supply more information on the lockable steel cap such as how it is connected to the pile.

Response: The lockable cap is to be designed and fabricated by the Contractor.

2.6 Bidder Inquiry

Question: Would you be able to specify the length of the cable required for the water depth sensor between the sensor and the data logger?

Response: Cable lengths for the temperature strings are noted in Section 26 01 01, "Sensors and Data", see sub-paragraph 2.10, "Temperature String Extension" for cable lengths and quantities. Contractor to verify the required cable length for BH#103, 106 and 109.

2.7 Bidder Inquiry

Question: Section 26 01 01 2.3.1.2.6 mentions acceptable product is model number VW2100-m strain gauge, but this model is a vibrating wire piezometer, not a strain gauge. Please clarify.

Response: Model number VW2100-m *vibrating wire piezometer* with a thick polyurethane jacket (EL380004HDL) is the correct device.

2.8 Bidder Inquiry

Question: Could it be possible to have the closing date for RFT extended to May 31st and the deadline for submitting inquiries extended to May 24th. The suppliers for instrumentation are mentioning that the actual timeline in the tender document does not allow enough time to analyse the specifications and submit inquiries.

Response: The inquiry deadline is extended to May 24th, 2022. The submission deadline is extended to May 31st, 2022.

2.9 Bidder Inquiry

Question: In specifications section 01 11 00 (Summary of work) point 1.11.2 it is mentioned that working hours are from 7am to 5pm from Monday to Friday. This should be changed to Monday to Sunday to allow working 7 days/week.

Response: Working hours are 7 AM to 5 PM Monday to Sunday.

2.10 Bidder Inquiry

Question: There are some discrepancies in the tender document regarding the number of monitoring station to be installed. In the appendix B (Cost submission form) on item 3 it is indicated that the number of sensor data monitoring station to be installed is 11. In the

specifications section 03 01 37 point 1.1.3 the number of data monitoring station indicated is 9. On the scope of work from drawing FIG.1 it is indicated that there is 10 monitoring station to be installed along the north, center, and south berms and 2 monitoring station are to be installed at the base of the concrete spillway for a total of 12. Please confirm the quantity of monitoring station to be installed?

Response: The "Borehole Location Plan" on drawing sheet Fig 1 indicates that there are 11 temperature and piezometer borehole locations. Eight monitoring stations in the center & north berms, two monitoring stations at the base of the spillway and one in the south berm for a total of 11 monitoring stations.

Section 03 01 37, "Concrete Repair", sub-paragraph 1.1.3 refers to both the *temperature/piezometer* boreholes as well as the *survey monuments*, both of which are set in concrete (survey monuments also have concrete placed into the steel casing).

Sub-paragraph 1.3.1 is in reference to the 9 (3 in the north berm, 5 in the center berm and 1 in the south berm) *temperature/piezometer* monitoring stations that are set into concrete, please note that two of the *temperature/piezometer* (installed into the base of the spillway) do not need concrete. Sub-paragraph 1.3.2 is in reference to the survey monuments of which there are 5 installed into steel casings and three set into the concrete dam.

2.11 Bidder Inquiry

Question: Can you please confirm if the 18ga. galvanized metal enclosure shown on FIG. 3 is already installed on the concrete dam? If not please confirm how we are to fasten the metal enclosure on the concrete dam considering the actual water level? Is this to be done underwater?

Response: The 18 Ga. enclosure is to be installed on the upstream face of the dam. The contractor shall supply and install, the new enclosure. The enclosure is to be secured to the concrete dam with 3/8" diameter x 2.25" length concrete anchors (Tapcons) at 300 mm OC starting at the top, only the portion of the 18 Ga enclosure above the water line is to be secured to the concrete.

2.12 Bidder Inquiry

Question: Please confirm the total length of galvanized metal enclosure to be installed for the water depth sensor from FIG. 3? The height of the dam isn't indicated on this drawing.

Response: Contractor to assume total length is 10 m, contractor to trim enclosure flush with top of concrete dam.

2.13 Bidder Inquiry

Question: On the appendix B – cost submission form can you please confirm what are we to consider as “granular material” for item 8 and “medium size fill” for item #9. Also, please confirm the intended location for the delivery?

Response: Materials will be stockpiled at the Lake Geraldine Dam. The exact location will be specified by the consultant and/or the City following contract award. The approximate location is down stream side of the north berm (where the existing, remaining stock piles are located).

Granular Material: 0 – 25 mm

Medium size Material: 26 – 200 mm

2.14 Bidder Inquiry

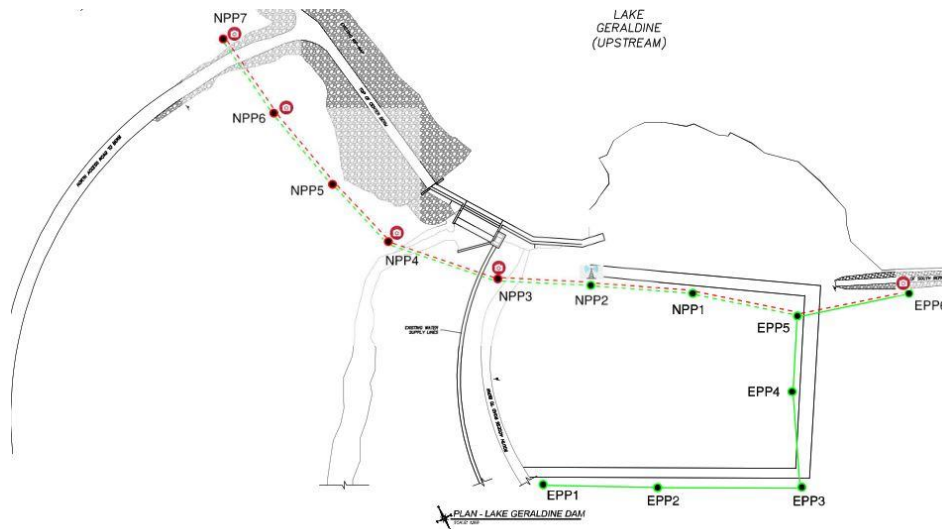
Question: Could you please confirm the diameter of the steel piles for the survey monuments? Section 31 16 00 point 2.1.1 is indicating 8 inch and point 2.1.2.2 is indicating 146mm. Also, the quantity should be changer for eight (8).

Response: Exact casing size can be adjusted to reflect stock available in Iqaluit at time of construction, minimum casing diameter is 140 mm. Total number of survey monument with steel casings is 5, please note that there are three survey monuments to be installed atop the concrete dam, these do not require steel casings.

2.15 Bidder Inquiry

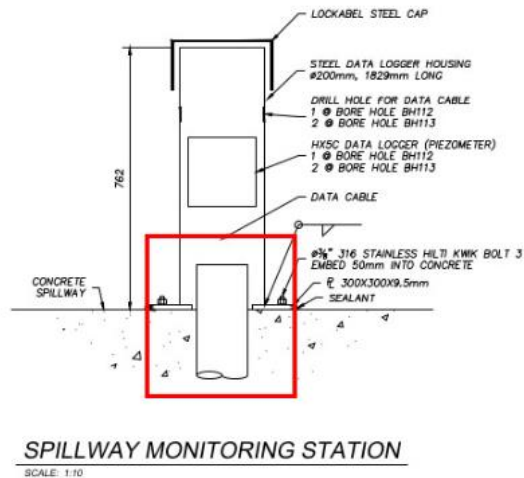
Question: As per SECTION A-TENDER CALL of the PART 1 – PROCUREMENT AND CONTRACT REQUIREMENTS it is indicated that there will be two additional projects that may be occurring at the same time that work of this contract is being completed and that the contractor is responsible for any as-needed coordination. Could you please provide more information regarding the two additional projects (anticipated start and end date of the work, site access restriction if applicable, name of contractor).

Response: One project will consist of sealant replacement at the existing sealant/ expansion joint locations within concrete dam and spillway as well as the installation of signage. This work is anticipated to be completed at some point in June, however this is not confirmed and it may be occurring in July. The other project will consist of installing new power poles and power and data connections between new and existing power poles, as well as other electrical equipment. A rough sketch of the work location is shown below. This work is tentatively scheduled for early fall 2022. The City will coordinate activities between both contract works should there be a need to access the work site.



2.16 Bidder Inquiry

Question: The detail below shows the design for the monitoring stations on the dam. BH112 and BH113 are on the spillway. From the images below, please provide information on the item in red as this item is not seen in the spill way image provided.



Response: Borehole number B112 and 113 are located at the base of the spillway. Canadrill previously drilled the boreholes the boreholes in 2019 and installed the tubes for the piezometers. See photo 16A and 16B. The item circled in red is the portion of the tubes that extend above the surface of the spillway.



Photo 16A: Photo of BH113 at the south side of the spillway, note the tubes for the piezometers sticking out from the borehole



Photo 16B: Closeup of the existing tub for the piezometers

2.17 Bidder Inquiry

Question: For the water depth sensor, would the plate just sit on top of the metal enclosure as the plate is rectangular and the metal enclosure is trapezoidal?

Response: The bottom plate of the monitoring station casing sits atop the exterior face of the concrete spillway. The base plate is sealed and bolted onto the surface of the spillway. Contractor to note that the surface of the spillway is at an angle, the base of the metal pipe that is welded to the bottom plate needs to be cut at an angle to allow the metal casing to extend vertically from the surface of the spillway.

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