



21-2006 ADDENDUM 5

WEST END WATER POLLUTION CONTROL CENTRE BIOLOGICAL NUTRIENT REMOVAL UPGRADE

URGENT

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

ISSUED: June 26, 2006
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**THIS ADDENDUM SHALL BE INCORPORATED
INTO THE BID OPPORTUNITY AND SHALL
FORM A PART OF THE CONTRACT
DOCUMENTS**

Template Version: A20050301

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

PART B – BIDDING PROCEDURES

Add: B3.6 to read: A Bidders Conference for the specific purpose of reviewing the access to the aeration tanks will be held at 9:00 AM June 29, 2006

PART D – SUPPLEMENTAL CONDITIONS

Revise: D2 to read Delete "...the Effluent Disinfection Facility..." and replace with "...the Biological Nutrient Removal Upgrade..."

Add: D12.1 (b) to read: The ferric chloride system consists of the following components:

- (i) FRP tank as specified in Section 13501
- (ii) Gear Pumps as specified in Section 11315
- (iii) Piping as specified in Section 11055 page 3 of 14

(iv) Ancillary items required to make the system operational including but not limited to electrical and control devices

Revise: D15.1 to read: If the Contractor fails to achieve critical stages or Substantial Performance in accordance with the Contract by the days fixed herein for same, the Contractor shall pay the City the following amounts per Calendar Day for each and every Calendar Day following the days fixed herein for same during which such failure continues:

- (a) Ferric Chloride System – One Thousand Five Hundred dollars (\$1,500);
- (b) Substantial Performance – One Thousand Five Hundred dollars (\$1,500);

Revise: D15.2 to read: The amounts specified for liquidated damages in D15.1 are based on a genuine pre-estimate of the City's losses in the event that the Contractor does not achieve critical stages or Substantial Performance by the days fixed herein for same.

Revise: D15.3 to read: The City may reduce any payment to the Contractor by the amount of any liquidated damages assessed.

PART E – SPECIFICATIONS

Section 01010 Add: Clause 1.3.1.2 to read: The access inside Bioreactor 2 for construction purposes is limited to the following areas:

- .1 The Suggested Construction Access Point as indicated on Drawing SS2.02.
- .2 Along any of the Bioreactor walls following the same criteria as indicated in the Suggested Access Point description on Drawing SS2.02. The Contractor proposed location will be subject to review and acceptance by the Contract Administrator. The relocation of the access point shall be completed at no additional cost to the City.
- .3 Through the existing and new access hatches or through the new sample ports in the roof of Bioreactor 2. No additional roof penetration openings will be allowed.
- .4 Removal of one or multiple precast roof tee(s) and associated roofing, cap flashing and appurtenances. Repair or replace the roofing and associated cap flashings and appurtenances to existing pre-construction conditions to the satisfaction of the Contract Administrator.

Section 01010 Add: Clause 1.3.6.3 to read: The access inside Bioreactor 1 for construction purposes is limited to the following areas:

- .1 The Suggested Construction Access Point as indicated on Drawing SS2.02.
- .2 Along any of the Bioreactor walls following the same criteria as indicated in the Suggested Access Point description on Drawing SS2.02. The Contractor proposed location will be subject to review and acceptance by the Contract Administrator. The relocation of the access point shall be completed at no additional cost to the City.
- .3 Through the existing and new access hatches or through the new sample ports in the roof of Bioreactor 1. No additional roof penetration openings will be allowed.
- .4 Removal of one or multiple precast roof tee(s) and associated roofing, cap flashing and appurtenances. Repair or replace the roofing and associated cap flashings and appurtenances to existing pre-construction conditions to the satisfaction of the Contract Administrator.

Section 01500 Delete: Clause 1.3

Section 01500 Revise: Clause 1.15.1 to read: The Contractor shall provide for two (2) temporary telephone lines, a fax and MTS Business Professional High Speed internet service or equivalent approved by the Contract Administrator including services to each of the two Contract Administrator's offices.

Section 01500 Add: Clause 1.14.4 Subject to the restrictions in Clause 1.14.5, the Contractor will be permitted to use the existing plant power supply for equipment such as hand tools and construction temporary lighting. These loads shall be fed from the existing Motor Control Centres. The Contractor will be responsible for the installation and removal of breaker and other electrical equipment required for construction temporary power. All existing City owned power equipment shall be left in equal or better condition than found. All temporary power supplies shall be reviewed and approved by the Contract Administrator prior to implementation.

Section 01500 Add: Clause 1.14.5 The existing permanent power supply may not be used power the following loads:

- .1 Heating equipment for any hoarding or other enclosures or areas related to the construction site.

- .2 Groundwater or other pumping equipment that will have to operate for an extended period of time.
- .3 Any equipment needing electrical power of 30 amps or more.

Section 01500 Add: Clause 1.35 Power Smart

- .1 This project does not qualify for the Manitoba Hydro Power Smart Program.

Section 01735 Add: Clause 1.2.3.1 Notwithstanding the preceding, for any process system identified (refer to Section 01010 2.3) as requiring commissioning prior to the 120 day limit described above, submit operations manuals and maintenance information prior to the commencement of commissioning of these specific process systems.

Section 02220 Revise: Clause 3.3.3 to read: Excavate to noted limits and as required for the Work. Stockpile material on-site as directed by the Contract Administrator. Permanently place a portion of the excess material to fill low lying areas on-site as directed by the Contract Administrator. Unusable excess material to be disposed of off-site.

Section 03300 Revise: Clause 3.16.5 to read: Filling the structures in preparation of the watertightness test shall be performed only after the wall and floor concrete have attained 100 percent of the design strength and the roof, where applicable has obtained 75 percent of the design strength. Fill the tanks with water 48 hours prior to the watertightness test to allow for full saturation of the concrete.

Section 03300 Revise: Clause 3.16.6 to read: The Site's secondary effluent is to be used for all water used for testing and re-testing. Super chlorinate the Site's secondary effluent as described in Section 01500.

Section 03300 Revise: Clause 3.16.9 to read: Pump the super chlorinated water into the Site's ponds south of the plant for disposal purposes. Be responsible for all costs for conveying the water (pumps, pipes, hook-ups, maintenance, etc.) to the Site's ponds.

Section 05500 Add: Clause 2.1.9 to read:
Retractable Lifeline and related accessory.

- .1 Acceptable product: Steel-Tech Housing SR-50SS retractable lifeline with stainless steel cable as manufactured by MSE Mechanical Safety Equipment Corporation.
- .2 Acceptable product: Model P103 spring loaded twist lock carbon steel carabiner as manufactured by Pelsue.

Section 11025 Add: Clause 2.1.5 The City will be responsible for draining, removing sludge, and cleaning the aeration basins and secondary clarifiers with flushing water (undisinfected treated secondary effluent) in preparation for the upgrades being performed by the Contractor. Provide adequate notice to the Contract Administrator to schedule cleaning operations with ongoing facility operations.

Section 11365 Add: Clause 1.1.4 VFDs are specified under Division 16

Section 11824 Revise: Clause 2.9.2 to read: Inpro-heat (telephone 604-254-0461)

Section 16111 Revise: Clause 2.1 to read: Rigid Aluminum Conduit

- .1 Aluminum with threaded joints and connections
- .2 All connectors shall be aluminum
- .3 Fittings: cast aluminum "Condulet" as manufactured by Crouse-Hinds Canada Ltd. including gasketed covers in all locations

Section 16111 Revise: Clause 3.1 to read: Rigid Steel Conduit

- .1 Use as raceways for following applications:
 - .1 In all areas exposed to weather and areas containing chemicals.
 - .2 In all areas where Teck cable is not used.
 - .3 For fire alarm circuits and related wiring.
 - .4 For all lighting and receptacle power distribution.

Section 16114 Revise: Clause 2.1.4 "Galvanized" to read "Aluminum"

Section 16114 Revise: Clause 2.2.1 to read: Provide zinc plated rod hangers, aluminum rod hanger clamps, and accessories to suit this installation.

Section 16122 Revise: Power Cable Schedule: Delete all references to "HL" under the "Description" heading. All Teck cables are to be suitable for installation in hazardous areas.

Section 16471 Revise: Panel HA Breakers 10, 12 and 14 to be a 15 A 3 pole feeding Condensing Unit H641-CU

Section 16480 Add: Clause 2.7 Individual Equipment Protection – Plug In

- .1 Unit shall incorporate an appropriately rated UL listed thermal-magnetic molded case main circuit breaker.
- .2 Enclosure: The unit shall be provided in a NEMA 1 type enclosure, painted inside and out.

Delete: Section 16722 Multiplex Fire Alarm System

Section 16820 Revise: Clause 2.5.1.1 to read: MCC 1T and 2T

Section 16820 Add: Clause 2.5.1.2 to read: MCC 1SB and 2SB:

- .1 Main horizontal bus bars: 600A
- .2 Branch vertical bus bars: 300A

DRAWINGS

Add: Drawing UM 1-02-R0
Drawing 60910-L3 For Information Only
Drawing CBF-0226 For Information Only
Drawing CBF-0227 For Information Only
Drawing CBF-0228 For Information Only
Drawing CBF-0228A For Information Only

Replace: Drawing LE1-03-R0 with LE1-03-R1
Drawing TA1-01-R2 with TA1-01-R3