

**District of Summerland
Tender No. 5330-91
Wastewater Treatment Plant Upgrade Project
ADDENDUM NO. 4**

April 6, 2017

PROJECT: 5330-91 District of Summerland Wastewater Treatment Plant Upgrade Project

The Contract Documents for this work are revised as noted herein. All such revisions become a part of the work and shall be included in your tender. No consideration will be allowed for extras due to the tenderer not being familiar with this addendum.

1. REFERENCE: SECTION 11161, SCUM SKIMMER PIPE, CLAUSE 1.1

REMOVE: "... installation of one (1) manually operated scum skimmer pipe..."

REPLACE WITH: "... installation of one (1) motor operated scum skimmer pipe..."

2. REFERENCE: SECTION 11161, SCUM SKIMMER PIPE, CLAUSE 2.2

ADD: **Clause .7** – Each skimmer pipe control will include integral reversing starter, automatic reset overload relay, compartment heater, auxiliary contact for "Remote" and "Local" positions, phase discriminator, control transformer with fused secondary and 16 contact geared limit switch; one (1) 3-button operator switch marked "Skim / Stop / Back skim" complete with three (3) indicating lights (Skim / FAULT / Back Skim), and one (1) 3-position selector switch marked "Local / Off / Remote". Remote operation will allow for Skim / Home / Back skim positions. Actuator will operate on 575 volt, 3 phase, 60 Hertz. Integral controls will operate on 120 volt, 1 phase power provided by internal transformer.

ADD: **Clause .8** – Modulating control shall be provided to allow remote operation of the skum pipe so rotation can be stopped at any point between full skim position and full back skim position. Analog position feedback for remote indication at SCADA shall be provided. Control shall consist of 4-20ma input positioner, and RWG 4-20ma position transmitter. Actuator shall be designed for up to 60 starts per hour.

3. REFERENCE: SECTION 11161, SCUM SKIMMER PIPE, CLAUSE 2.3

ADD: Evoqua Water Technologies, LLC of Wau Keshia, Wisconsin
Note: A rack and pinion assembly or worm gear assembly is acceptable.

4. REFERENCE: SECTION 11201 SLIDE GATE

ADD: Orbinox as an approved slide gate manufacturer.

5. REFERENCE: SECTION 13701A

ADD: Oldham iTrans2 as an accepted alternative gas detector.

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6. REFERENCE: SECTION 00100, CLAUSE 1.2

REMOVE: The first sentence "The TENDER, including all Schedules, shall be submitted on the separate forms provide."

REPLACE WITH: "The TENDER, shall include the revised Section 00304 Tender Forms with the lump sum price sheet provided in Addendum 3."

7. REFERENCE: SECTION 00400 and ADDENDUM 3, APPENDIX E – SCHEDULE OF PRICES

CLARIFY: Upon request by the Engineer, submittal of the detailed breakdown of Schedule of Prices (provided in Addendum 3) and Section 00400, Supplementary Tender Forms will be required within 24 hours after the request has been made.

8. REFERENCE: SECTION 03600, GROUT

ADD: Five Star Products, Fluid Grout 100 as an accepted alternative grout.

9. REFERENCE: SECTION 08520, Item 2.3.1

ADD: US Aluminum Series IT451 as an accepted alternative for window components.

10. REFERENCE: SECTION 11160, Clause 2.1 Plug Valve

ADD: Val-matic as an approved plug valve.

11. REFERENCE: SECTION 15960, MECHANICAL SCHEDULES

ADD: SECTION 15960, MECHANICAL SCHEDULES

12. REFERENCE: DRAWING NO. S-300

ADD: **Keynote 2:** Skylights over the Effluent Filter Galleries shall be fabricated, fixed structurally glazed, curb mount skylight with maintenance free, roll-formed aluminum exterior frame. Skylight system shall be structurally adequate to support snow and wind loads as specified by British Columbia Building Code 2006 or live loads of 2.5 kN at mid point of glazing whichever is greater. The maximum allowable deflection of any framing member normal to the plane of glass shall not exceed L/175. Approved product: CMA Metro-lite Commercial Skylight by Velux.

ADD: **Keynote 3:** Glazing and framing details for the Effluent Filter Penthouses are to be designed by the Contractor's supplier. All design, including loading, weather tightness and durability shall be in accordance with British Columbia Building Code 2012. Submit shop drawings for review and approval to fabrication. See attached samples images.

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13. REFERENCE: **ADDENDUM 3, SECTION 11150 PROCESS PIPING, CLAUSE 1.3**

REMOVE: Piping schedule

REPLACE WITH: Piping schedule below

Abbreviation	Process Commodity	Pipe Material	Comments
RS	Raw Sewage exterior	PVC C900/C905 PVC Sch 80	Fittings: PVC Sch 80 or Ductile Iron cement mortar lined
RS	Raw Sewage under structure	Mild Steel, CW, ERW or Seamless Std Wt.	Epoxy lining and coating to AWWA C210
C1	Potable Water	Copper or PVC Sch 80	
C3	Recycled Water	PVC Sch 80 PVC Series 160, DR26	
SE	Secondary Effluent	PVC Sch 80 PVC C905, SDR41	Less or equal to 600mm dia. Greater than 600m dia.
SE Fittings		PVC C905, SDR41 Ductile Iron	PVC Fittings DI cement mortar lined fittings
GR	Grit Slurry	PVC Sch 80	
FA	Foul Air	PVC Sch 80 (exterior) FRP (interior) PVC SDR 35 (exterior) SS Type 316L Sch 10S	
PD	Process Drain	PVC Sch 80	
SAN	Sanitary Drainage Gravity	PVC SDR35 PVC SDR28	Greater than 150mm dia. Less than or equal to 150mm dia.
FLBW	Filter Backwash	PVC Sch 80	

14. REFERENCE: **DRAWING NO. S-105 and S-507**

ADD: Note that states "FRP can be used as an alternative to aluminum for handrails and grating."

15. REFERENCE: **DRAWING NO. C-101, REVISION 1**

DELETE: Entire drawing.

REPLACE WITH: Drawing No. C-101, Revision 2

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16. REFERENCE: DRAWING NO. C-102, REVISION 1

DELETE: Entire drawing.

REPLACE WITH: Drawing No. C-102, Revision 2

17. REFERENCE: DRAWING NO. M-002, REVISION 1

DELETE: Entire drawing.

REPLACE WITH: Drawing No. M-002, Revision 2

18. REFERENCE: DRAWING NO. M-104, REVISION 1

DELETE: Entire drawing.

REPLACE WITH: Drawing No. M-104, Revision 2

19. REFERENCE: DRAWING NO. H-100, REVISION 1

DELETE: Entire drawing.

REPLACE WITH: Drawing No. H-100, Revision 2

20. REFERENCE: DRAWING NO. P-001, REVISION 1

DELETE: Entire drawing.

REPLACE WITH: Drawing No. P-001, Revision 2

21. REFERENCE: DRAWING NO. P-103, REVISION 1

DELETE: Entire drawing.

REPLACE WITH: Drawing No. P-103, Revision 2

22. REFERENCE: DRAWING NO. P-104, REVISION 1

DELETE: Entire drawing.

REPLACE WITH: Drawing No. P-104, Revision 2

23. REFERENCE: DRAWING NO. E-100, REVISION 2

DELETE: Entire drawing.

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REPLACE WITH: Drawing No. E-100, Revision 3

24. REFERENCE: DRAWING NO. E-101, REVISION 1

DELETE: Entire drawing.

REPLACE WITH: Drawing No. E-101, Revision 2

25. REFERENCE: DRAWING NO. E-103, REVISION 1

DELETE: Entire drawing.

REPLACE WITH: Drawing No. E-103, Revision 2

26. REFERENCE: DRAWING NO. E-105, REVISION 1

DELETE: Entire drawing.

REPLACE WITH: Drawing No. E-105, Revision 2

Enclosures:

Section 15960 – Mechanical Schedules	7 pages
Sample Images – Samples Images.pdf	3 pages

Drawings:

C-101, Rev 2 – Site Grading Plan	1 sheet
C-102, Rev 2 – Yard Piping Plan	1 sheet
M-002, Rev 2 – Standard Details, Sheet 2	1 sheet
M-104, Rev 2 – Grit Removal Plan	1 sheet
H-100, Rev 2 – Grit Removal, Mechanical Main Level Plan	1 sheet
P-001, Rev 2 – Process Identification, Abbreviation & Symbols	1 sheet
P-103, Rev 2 – Screen & Grit Chamber, P & ID	1 sheet
P-104, Rev 2 – Grit Pump, Cyclone & Dewatering, P & ID	1 sheet
E-100, Rev 3 – Single Line Diagram	1 sheet
E-101, Rev 2 – MDC / MCC Motor Schedule	1 sheet
E-103, Rev 2 – Effluent Filters Electrical Plan	1 sheet
E-105, Rev 2 – Grit Removal Electrical Plan	1 sheet

END OF ADDENDUM NO. 4