

Agenda No: 4.1

Meeting Date: July 8/10



Environmental Services

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ENVIRONMENTAL SERVICES DEPARTMENT REPORT

For the Board July 8th, 2010

TO: Chair & Members of the Regional Board

FROM: Delphine Maja, Sr. Engineering Technologist

DATE: June 30th, 2010

SUBJECT: Engineering Services - Part B - Upper Fintry / Shalal Road / Valley of the Sun Water System

RECOMMENDATION:

THAT the Regional Board authorize the award of the contract for the Engineering Services - Part B - Upper Fintry / Shalal Road / Valley of the Sun Water System to **CTQ Consultants Ltd.** for the amount of **\$317,320.00** excluding GST.

PURPOSE:

The primary objective of this consulting assignment, Engineering Part B, is to see the Upper Fintry/ Shalal Road/ Valley of the Sun Water System Project through the design, tendering, and construction phases.

BACKGROUND:

The Regional District of Central Okanagan requested proposals for Engineering Services Part B of the Upper Fintry / Shalal Road / Valley of the Sun Water System Project.

Four proposals were received, two of which met the requested schedule and budget:

CTQ Consultants	\$317,320.00
True Consulting Group	\$365,000.00

The proponents were pre-qualified from a list of ten interested firms, both have experienced and qualified teams fully capable to complete the assignment. The proposals were scored on methodology & approach, resource allocation & scheduling, proposal quality, and fee proposal.

The subdivisions of Upper Fintry, Shalal Road, and Valley of the Sun, see Service Area Map, are not serviced with a community water system. Where some owners have been successful with drilling wells, many others have not and transport their water in from other areas.

MARCH 2009, A valid and sufficient petition requesting a community water system was delivered to the Regional Board from property owners, quoting a final cost not to exceed \$17,500 per parcel.

SUMMER 2009, Statutory and Regional Board approvals were obtained to establish the service area and proceed with an in-house infrastructure project to design and construct the new community water system.

OCTOBER 2009, Engineering Part A (Pre-Design Report by TRUE Consulting Group, May 2010) was initiated to confirm the water source and to create the conceptual design for routing and property acquisitions. Following the presentation to the community at the open house on April 14th, 2010, the Pre-Design Report was finalized in May 2010.

During the Pre-Design exercise, and with the assistance of a Hydro Geologist, Lot 19 on Morden Road was selected and purchased to locate the main pump station and the two new non-GWUDI wells. The wells can each provide up to 30 L/s (475 USGPM) or when operated in tandem a total of 60 L/s. The high level reservoir, to be constructed on private property (and protected by a statutory right of way) at the top of Firwood Road in Valley of the Sun, will be sized for both domestic and fire suppression demands. In addition to Valley of the Sun (147 parcels), this reservoir will feed Upper Fintry (180 parcels), Shalal Road (14 parcels) and the North Westside Fire Rescue's garage at Shorts Creek, via an underground high pressure transmission main.

Engineering Part B - Project Description

The Engineering for the proposed water system was divided to be completed in two parts, A (Pre-Design) and B. In brief, Part B includes the following tasks:

- a) project management and administration
- b) water system design review and completion of
- c) tender, preparation, call, and selection of
- d) construction management & inspections
- e) record drawings, preparation of
- f) operation and maintenance manuals, preparation of.

Budget

The expenses to date have been within budget, the \$17,500/parcel maximum was based on:

- a total budget of \$5,936,266
- 341 parcels
- 20% contingency (*included in total budget*)

2nd Quarter 2010, summary of expenses:

Upper Fintry/Shalal Road / Valley of the Sun Water System					
Description		Budget	% Complete	Expenses To Date	Budget remaining
Domestic Distribution System - Upper Fintry / Shalal Rd		\$772,350			
Domestic Distribution System - Valley of the Sun		\$675,275			
Transmission Mains		\$752,400			
Groundwater Well Development (2 well 26 L/s capacity ea)		\$850,000	38%	\$323,542	\$526,458
System In-Line Booster Station		\$445,000			
Reservoirs (+ Fire Storage Capacity)		\$546,000	1%	\$2,893	\$543,107
Subtotal , Construction Cost Estimate		\$4,041,025	8%	\$326,435	\$3,714,590
Engineering 10%	10%	\$404,103	6%	\$22,678.08	\$381,424.42
Contingency 20%	20%	\$808,205			
TOTAL CAPITAL COST		\$5,253,333	7%	\$349,113	\$4,904,220
Interim Project Financing	10%	\$525,333			
RDCO Administrative Fee	3%	\$157,600	7%	\$10,473	\$147,127
TOTAL PROJECT COST		\$5,936,266	6%	\$359,586	\$5,576,679
<i>Number of Single Family Units</i>			341		
<i>Cost per Single Family Unit</i>			\$17,408		

Note, additional government funding such as the Towns for Tomorrow (\$400,000, being applied to the groundwater well development) and the Planning Grant (\$5,000, applied to Engineering feasibility study in 2007) if secured, may continue to reduce the final per parcel cost.

Schedule

This assignment will be started immediately and is proposed to be completed in the fall of 2011. The project schedule prepared by CTQ Consultants is attached for your review at the end of this document.

ENVIRONMENTAL SERVICES DEPARTMENT COMMENTS:

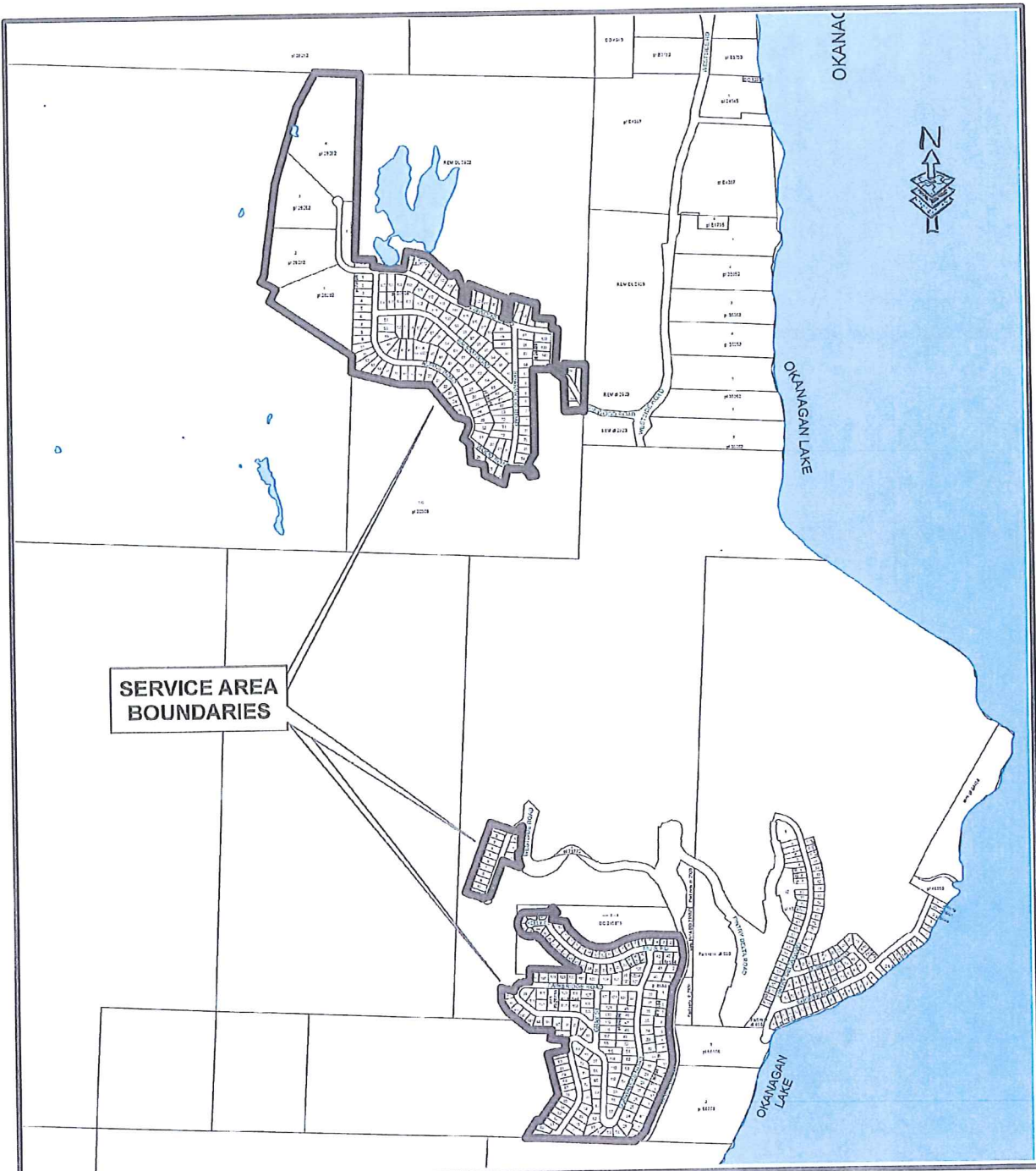
The Environmental Services Department recommends that the Regional Board authorize the award of the contract for the Engineering Services Part B of the Upper Fintry / Shalal Road / Valley of the Sun Water System Project to **CTQ Consultants Ltd.** for the amount of **\$317,320.00** excluding GST.

Respectfully submitted,


 Delphine Maja
 Senior Engineering Technologist


 Chris Radford
 Director of Environmental Services

Att. Service Area Map
 Timeline by CTQ Consultants Ltd.



Regional District of Central Okanagan
Upper Fintry, Shalal Road, Valley of the Sun
Water Service Area Establishment Bylaw No. 1254, 2009
Schedule "A"
May 14, 2009
 Date of Adoption: Scale: 1:17,000 Filename: UF_VOS Water BLW.mxd

REVISIONS	
DATE	BYLAW

Upper Fintry/Shalal Road/Valley of the Sun Water System Detailed Schedule

