

**SULTAN CITY COUNCIL  
AGENDA ITEM COVER SHEET**

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**ITEM NO:** A-6

**DATE:** August 28, 2008

**SUBJECT:** Amendment #5 with Brown and Caldwell for the Centrifuge Design, PWTF Loan modifications and 50% Design Deliverable

**CONTACT PERSON:** Connie Dunn, Public Works Director



**ISSUE:**

The issue before the City Council is to authorize the Mayor to sign contract amendment number 5, Attachment A, with Brown and Caldwell that reallocates remaining design funds, \$629,197, to cover the centrifuge design, Public Works Trust Fund (PWTF) loan modifications, and binding the 50% complete design.

**STAFF RECOMMENDATION:**

Authorize the Mayor to sign Amendment #5 with Brown and Caldwell to reallocate \$84,888.00 of the remaining design funds to address the additional tasks described in Amendment #5. The remaining balance, \$544,309, will be allocated to the contingency fund for other Council approved tasks that may come up.

**SUMMARY:**

Amendment #5 addresses the centrifuge design, PWTF loan modifications, and binding of the 50% design documents. A brief summary of each of these tasks is provided below.

**Centrifuge Design**

The overall Wastewater Treatment Plant (WWTP) upgrade design was advanced to about the 50 percent completion level in April of 2008. About this time, the City experienced a sharp downturn in housing development activity. Because the City's rate study relied on a significant portion of the project cost to be supported by developer connection charges, the viability of continuing with the full upgrade project was reassessed given the concern of the housing market. In the course of this reassessment, the City Council determined May 29, 2008 that the sensible approach would be to re-phase the project so only those components of the project that were immediately necessary to provide efficient operation at the Wastewater Treatment Plant (WWTP) on a cost effective basis would be advanced at this time.

The City's existing solids handling system limits the capacity of the WWTP since it has to be operated on an almost continuous basis to keep up with the waste activated sludge resulting from the current wastewater flows being conveyed to the WWTP. In

addition, the existing solids handling system is not a true dewatering system; rather it is a thickening process that produces only about 9 percent solids. This diluted sludge requires many more truck trips to transport it to the solids disposal facilities in LaConner than it would do were the system producing at least a two-fold higher solids content sludge as a centrifuge is capable of doing. The lower solids content of the sludge causes the City to incur significantly higher costs for sludge transportation and also increases greenhouse emissions from the extra truck trips to LaConner.

In order to take advantage of the design work that has already been completed to the 50 percent level, the City proposes to re-phase the project by adding only one of the centrifuges from the WWTP upgrade design project as part of the first phase of the project. This centrifuge would not only address immediate needs but also provide capacity for future flows. This centrifuge would be installed in the existing Equipment Building and would be reused as part of the future plant upgrade phases. With this approach, the City has actively adapted the project phasing to meet the immediate and future capacity needs at the WWTP in a way that makes best use of available funding. On July 28, 2008, the Public Works Trust Fund (PWTF) board indicated they supported this change in design scope, allowing the City to continue making use of the original PWTF loan for conducting the centrifuge design. Council approved the revised scope of work on August 14, 2008, consent item #3.

#### **PWTF Loan Modifications**

The PWTF loan board requires the original PWTF loan application be revised to reflect the change in design direction. The Board has indicated they view the change in design direction to be consistent with the intent of the original loan request and will approve allocating loan money to the City for the design of the centrifuge project.

#### **Binding of 50% Documents**

The City desires to have a hard copy bound set and electronic copies of the overall design in its current state for reference until the design is reactivated. This task will include electronically changing any outstanding design markups that were not addressed prior to the City directing the Consultant to stop the design work.

#### **Amendment #5**

As part of the 50 percent complete project, some of the design tasks in the original scope of work have been completed, some are only partially complete, and some have not yet been started. Because the design direction has changed from the original scope of work (which included services for the entire design through bid period services), Amendment #5 deletes all of the scope of work for those tasks and portions of tasks that have not been started to develop the design beyond its current state (the 50 percent completion level).

Similarly, this Amendment reallocates the entire remaining contract budget balance, 544,309 to the contingency fund for addressing any unforeseen tasks described in Amendment #5 (centrifuge design, PWTF modifications, and binding the 50 percent

deliverable) and other Council approved task that may come up during work being completed in Amendment #5, Attachment A, Exhibit B, page 2 of 7.

Amendment #5 creates a new task 400, the objective is to provide design consulting services for the installation of a new centrifuge in the existing equipment building. Prepare a brief report for Department of Ecology (DOE) that describes the project and how it coordinates with the approved Engineering Report for the Sultan WWTP. Prepare design calculations, drawings and specifications, for bidding process and procedures. Respond to questions, prepare and issue addenda, conduct pre-bid conference and assist with bid evaluation.

**FISCAL IMPACT:**

Alternatives:

1. Authorize the centrifuge design, PWTF loan modifications, and binding of the 50% design documents. Authorize the Mayor to sign Amendment #5 with Brown and Caldwell to reallocate \$84,888 of the original design fee to cover these tasks.
2. Authorize only a portion of Amendment #5 tasks. Authorize the Mayor to sign a revised Amendment #5 with Brown and Caldwell to reallocate sufficient funds to cover the desired tasks.
3. Do not authorize these tasks. Do not authorize the Mayor to sign Amendment #5 with Brown and Caldwell.

**RECOMMENDED ACTION:**

1. Authorize the Mayor to sign Amendment #5 with Brown and Caldwell to reallocate \$84,888.00 of the original design fee to cover the tasks described in Amendment #5.

**ATTACHMENTS**

ATTACHMENT A

Brown and Caldwell Amendment #5

Prism Project No. 131877

AMENDMENT NO.5 TO  
AGREEMENT FOR CONSULTING SERVICES  
BETWEEN THE CITY OF SULTAN, WASHINGTON  
AND BROWN AND CALDWELL  
FOR WASTEWATER TREATMENT PLANT FACILITY PLANNING

THIS AMENDMENT NO. 5 to the Agreement for Consulting Services dated January 27, 2006, between the City of Sultan, Washington, hereinafter referred to as "Client", and Brown and Caldwell, a California corporation, hereinafter referred to as "Consultant," is made and entered into this \_\_\_\_ day of August, 2008.

RECITALS:

WHEREAS, Client and Consultant entered into an Agreement for Consulting Services dated January 27, 2006 (hereinafter referred to as the "Agreement"); and

WHEREAS, Client desires procure additional services and

WHEREAS, Client has requested changes in the original scope of services called for in the Agreement;

NOW, THEREFORE, Client and Consultant agree to amend the Agreement as follows:

**I. SCOPE OF CONSULTING SERVICES**

The scope of services in the Agreement is amended by adding the services described in Exhibit B, dated August 14, 2008, and attached hereto, to the services described in the original Agreement.

**II. SCHEDULE**

Consultant is authorized to proceed with the modified scope of services effective on the date of this amendment.

**III. COMPENSATION**

Compensation for the services provided under Article I of this Amendment shall be calculated on the same basis as in the Agreement. The labor hours and cost estimates for completing the services defined in this Amendment are shown in Exhibit C. The estimated compensation for the services performed under this Amendment is \$84,888. Funds from other phases will be reallocated to cover this Amendment, which leaves the total estimated compensation under the Agreement at \$1,753,610.

All other terms and conditions of the Agreement remain unchanged.

BROWN AND CALDWELL

CITY OF SULTAN

Signature: \_\_\_\_\_ Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_ Title: \_\_\_\_\_

**CITY OF SULTAN  
WASTEWATER TREATMENT PLANT UPGRADE PROJECT**

**DRAFT AMENDMENT NO. 5 –  
CENTRIFUGE DESIGN, PWTF LOAN ASSISTANCE AND 50 PERCENT DELIVERABLE**

**EXHIBIT B - SCOPE OF WORK**

August 14, 2008

The purpose of this Amendment #5 is to delete remaining scope as part of a change in design direction and reallocate remaining funds for the following additional tasks:

- Provide design services for the installation of a new solids handling device (centrifuge), including a brief report to the Washington Department of Ecology (DOE).
- Address Public Works Trust Fund (PWTF) loan changes necessitated by the change in design direction.
- Bind and electronically compile the design documents (drawings and specifications) in their current state (~50% complete overall) for reference until the design is reactivated.

As background, the City authorized proceeding with the design tasks listed in the table below on November 17, 2006 and as of April 2008, the overall project was completed to approximately the 50 percent level. It was at this point in the design that the City decided to stop the design related tasks and consider re-phasing the project. As part of the 50 percent complete project, some of these tasks below have been completed, some are only partially complete, and some have not yet been started. The table below shows what the budget for each task was prior to Amendment #5, and what the budget for each task will be after Amendment #5.

Because the design direction has changed from the original scope of work (which included services for the entire design through bid period services), this Amendment deletes all of the scope of work for those tasks and portions of tasks that have not been started to develop the design beyond its current state (the 50 percent completion level). Similarly, this Amendment reallocates the entire remaining budget balance to a separate contingency fund for addressing the additional tasks described below in this Amendment and any other upcoming work requested by the City.

	<sup>1</sup> Budget (Before Amendment #5)	Revised Budget (After Amendment #5)
Task 101 – Project Management during Design	\$132,565	\$8,259
Task 241 – Permitting Assistance during Design	\$44,428	0
Task 242 – Dilution Study	\$34,621	0
Task 243 – Lab Training	\$3,366	0
Task 244 – Ambient River Sampling	\$13,300	0
Task 301 – Financing Assistance during Design	\$18,949	\$2,893
Task 302 – Financing Assistance for Developers Agreements (Optional)	\$33,455	0
Task 310 – Community Involvement	\$10,981	0
Task 400 – Centrifuge Design	0	\$48,696
Task 490 – Centrifuge Bid Period Services	0	\$7,139
Task 500 Series – 30 Percent Design of the Sultan WWTP Upgrade	\$364,087	0
Task 600 – 60 Percent Design of the Sultan WWTP Upgrade	\$251,896	\$17,901
Task 700 Series –90 Percent Design of the Sultan WWTP Upgrade	\$265,555	0
Task 800 – 100 Percent Design and Bid Documents Preparation	\$263,174	0
Task 900 – Bid Period Services	\$20,328	0
Task 000 – Unauthorized Funds	\$38,873	0
<b>Total</b>	<b>\$1,495,578</b>	<b>\$84,888</b>
Total <u>Remaining</u> Budget (as of August 14, 2008)	\$629,197	\$84,888
<sup>2</sup> Task 999 – Contingency Funds	0	\$544,309

<sup>1</sup>Incorporating all Amendments up to Amendment # 5.

<sup>2</sup>Amount in Task 999 - Contingency Funds is equal to the budget remaining to date, less the amount for Amendment #5 (\$629,197 - \$84,888 = \$544,309).

This Amendment assumes that the additional tasks described below will be completed in year 2008. No 2009 salary inflation has been included.

### **Task 101 – Project Management**

**Objective.** No change.

**Approach.** The following additional scope items impact this task:

1. To account for the PM activities associated with the additional scope items presented below, hours have been included in this PM task

#### **Work Products.**

1. Documentation of meeting minutes
2. Monthly status reports.
3. Includes up to 3 trips to the City of Sultan for project related meetings.

#### **City Responsibilities.**

1. No change.

### **Task 301 – Financing Assistance during Design**

**Objective.** No Change.

**Approach.** This task includes the following activities:

1. Review existing PWTF loan application and contact PWTF to determine extent of loan application changes required to address current design status.
2. Assist the City in modifying PWTF loan application as required by PWTF.

#### **Work Products.**

1. Two teleconferences with PWTF loan office to determine necessary application changes.
2. Because it is unknown the extent of modifications that will be required, this task includes up to 20 hours of consultation to provide technical information necessary for modifications to the loan application.

#### **City Responsibilities.**

1. Review PWTF application.
2. Be the main point of contact with PWTF.

## Task 400 – Centrifuge Design

**Objective.** Provide design consulting services for the installation of a new centrifuge in the existing Equipment Building.

Prepare a brief report for DOE that describes the project and how it coordinates with the approved Engineering Report for the Sultan WWTP.

**Approach.** The City desires to install a centrifuge unit that is a completely packaged, skid-mounted system that includes the centrifuge and all necessary appurtenances such as pumps, control panel, and a dewatered solids conveyance device. As such, the intent of this centrifuge design task is to prepare a specification for the packaged centrifuge system and represent the system on design drawings to show the approximate skid location and connections for process piping, (including waste activated sludge, centrate, and flushing water) and electrical service.

Because the City has already conducted research on packaged centrifuge systems and has evaluated preliminary skid layouts, this scope of work is intended to build on those efforts and be limited to the specification and layout of the type of complete, fully packaged centrifuge system for which the City has already obtained preliminary proposals. Research, selection and specification of other types of centrifuge systems and design of a custom centrifuge system is not included in this scope of work.

This scope of work includes preparation of contract bid documents suitable for public bidding and a report describing the project for DOE.

1. Prepare design calculations, drawings and specifications for the following disciplines:

Civil/Site Design. This scope of work includes Division 1 specifications and effort to assess the adequacy of the existing filtrate line for use as a centrate line. It is assumed based on preliminary review that the existing filtrate line can be reused as a centrate line. Therefore, this scope of work does not include any new yard piping or other civil/site related design.

Architectural Design. This scope of work assumes that no architectural design will be required as part of this project.

Process Mechanical Design. Although process mechanical work typically includes the research, selection and specification of new equipment, for this project it will only include the specification based on the type of the City's preferred centrifuge vendor. The work also includes representing the location of the packaged unit in the existing Equipment Building and process piping connections to the skid (sludge, centrate and flushing water). This scope of works assumes that no HVAC or plumbing design will be required.

Because the City desires a completely functional centrifuge skid system, the process mechanical design component of the scope is limited to specifying the type of packaged centrifuge system desired by the City and showing a viable skid system

layout on a mechanical drawing and confirming adequacy of connected piping and appurtenances.

Structural Design. Based on preliminary review of Equipment Room floor drawings, it is assumed that no building structural modifications will be required to support the new centrifuge. Therefore, this scope of work does not include structural modifications to the existing Equipment Building, but it does include effort to verify this preliminary assumption. In addition to reviewing the existing floor slab, this scope of work includes designing an anchoring system for the new centrifuge skid system to the existing floor slab. It is assumed that the centrifuge vendor will supply a complete structural skid for all process equipment so the Consultant's scope of work will be limited to designing the attachment of the skid to the floor slab. The controlling building code will be 2006 IBC with local amendments.

Electrical and Instrumentation Design. The electrical and instrumentation design is limited to providing electrical power to the centrifuge vendor's skid system and picking up an alarm signal from the skid system to the plant's SCADA system.

To achieve this level of design, the following components are included in this scope of work:

- Specifications – basic electrical and instrumentation specifications, assuming no new lighting or receptacles and that the centrifuge skid programming will be part of the vendor's package.
- Drawings
  - Assumes that no process and instrumentation diagrams (P&IDs) will be required
  - Demo plan for existing Equipment Building. It is assumed that only lights and receptacles will remain and that no lighting or receptacle changes will be required.
  - New plan for centrifuge to show room layout with new centrifuge and grounding requirements. Assumes that centrifuge package only requires one 480 v power connection and one control connection for alarm. Drawing will show power disconnect and it is assumed that NEC requirement for building disconnect will be met.
  - Site plan showing how power and control circuits are routed and where they get power from and to where the plant controls are. Will use an existing site plan for background.
  - Modification to existing one-line. Assumes power capacity for new centrifuge is available. Assumes that existing generator capacity is sufficient for operational need. Will use an existing one line for the background.
- 2. DOE Report: Based on a phone conversation with the DOE representative for Sultan, a brief report will be required from the City to summarize the project and how it fits within the already-approved Engineering Report.
  - Upgrade is considered a "maintenance activity"

- Describe the construction sequencing and interim operation so Ecology can be assured that the centrifuge can be added without interrupting plant performance
- Describe any other risks
- Explain that the upgrade is consistent with the approved Engineering Report
- Submit associated plan and specs so they can quickly review, approve and have them on record

This scope of work assumes only one submission of the report to DOE.

**Work Products.**

1. 75 percent design specifications and drawings and draft DOE report
2. 100 percent design specifications and drawings incorporating all 75 percent design comments and the final DOE report. (5 copies)
3. A CD with the 100 percent design documents.

**Assumptions.**

Final documents will be provided in digital format suitable for printing by others. The City intends to have a local Copy Center print, provide, and charge prospective bidders for bidding contract documents outside of this agreement.

**City Responsibilities.**

1. Provide input during the design
2. Review 75 percent documents.

**Task 490 – Bid Period Services**

**Objective.** Respond to questions, prepare and issue addenda, conduct pre-bid conference, and assist with bid evaluation.

**Approach.** Coordinate one meeting with the City.

**Product.** Task work products will include:

1. Prepare and distribute written contract addenda in response to questions. Five hard copies and one electronic copy (CD), including written products in Microsoft Word™ format and other documentation in Adobe Acrobat™ format (.pdf), will be prepared and transmitted to the District.

This scope of work assumes that only 1 Addendum will be required and allocates up to 24 hours to answer questions and prepare Addendum No. 1.

2. Prepare for and attend one 1-hour pre-bid conference, including a site walkthrough.

3. Assist the City in bid evaluation.

### **Task 600 – Detailed Design (50 percent Design Deliverable)**

**Objective.** Allocate a portion of the remaining design funds to bind the design documents in their current state so that the City has a hard copy and electronic copy representation of the current design until the design is reactivated.

#### **Approach.**

1. Electronically change any outstanding design markups that were not addressed prior to the City directing the Consultant to stop the design work. After these changes are made, the overall project will be about 50 percent complete (some disciplines will be more complete than others).
2. Compile a complete set of the design drawings, specifications and control narratives for binding.

#### **Work Products.**

1. Five hard copy sets of design drawings, specifications, and control narratives.
2. A CD with all design documents.

#### **City Responsibilities.**

No change.

**EXHIBIT C - COMPENSATION**

August 14, 2008

**CITY OF SULTAN**  
**Wastewater Treatment Plant Upgrade Project**  
**Amendment 5 - Detailed Design**

<b>Task Description</b>	<b>Total Budget</b>
Task No. 101 - Project Management	\$ 8,259
Task No. 301 - Financing Assistance During Design (PWTF Modifications)	\$ 2,893
Task No. 400 - Centrifuge Design	\$ 48,696
Task No. 490 - Bid Period Services	\$ 7,139
Task No. 600 - 50% Design Deliverable	\$ 17,901
<b>Total</b>	<b>\$ 84,888</b>

Task No. 101 - Project Management  
City of Sultan  
Wastewater Treatment Plant Upgrade Project - Amendment 5

Task Budget Breakdown

21-August-08

Direct Labor

Staff	Category/Name		Rate	Hours	Subtotal	Total
<b>Professional</b>						
	Project Manager	PRM	\$ 65.00	4	\$ 260.00	
	Technical Advisor	TAD	\$ 62.03	0	\$ -	
	Quality Control Reviewer	QCA	\$ 55.31	0	\$ -	
	Principal Engineer	PCE	\$ 44.37	24	\$ 1,064.88	
	Senior Engineer	SEN	\$ 35.00	0	\$ -	
	Engineer	ENG	\$ 30.00	0	\$ -	
	Associate Engineer	ASE	\$ 25.00	0	\$ -	
	Senior Electrical Engineer	SELEC	\$ 43.78	0	\$ -	
	Electrical Engineer	ELEC	\$ 35.00	0	\$ -	
	Senior Instrumentation E	SINS	\$ 43.00	0	\$ -	
	Instrumentation Engineer	INS	\$ 29.43	0	\$ -	
	Senior Structural Engineer	SSTR	\$ 48.00	0	\$ -	
	Senior Structural Engineer	STR	\$ 27.00	0	\$ -	
	Senior Operator	SOP	\$ 37.32	0	\$ -	
	<i>Subtotal</i>			28		\$ 1,324.88
<b>Technical</b>						
	Chief Drafter	CHD	\$ 38.26	0	\$ -	
	Senior Drafter	SDR	\$ 33.00	0	\$ -	
	Drafter	DRA	\$ 25.00	0	\$ -	
	Senior Graphic Designer	SDH	\$ 21.40	0	\$ -	
	<i>Subtotal</i>			0		\$ -
<b>Administrative</b>						
	Project Coordinator II	PR2	\$ 23.10	20	\$ 462.00	
	Word Processor IV	WP4	\$ 23.09	10	\$ 230.90	
	Senior Project Assistant	SPA	\$ 17.25	30	\$ 517.50	
	<i>Subtotal</i>			60		\$ 1,210.40
	Subtotal Direct Labor			88		\$ 2,535.28
<b>Total Labor Cost</b>						<b>\$ 2,535.28</b>
	Total mark-up		3.20			\$ 8,112.90
<b>Subconsultant Costs</b>						
	Permitting - Adolfsen Associates				\$ -	
	MWA Architects				\$ -	
<b>Total Subconsultant Costs</b>						<b>\$ -</b>
	Professional Fee -- Subconsultants		2%			\$ -
<b>Invoiceable Direct Costs</b>						
	Mileage	250	\$ 0.59		\$ 146.25	
<b>Total Invoiceable Direct Costs</b>						<b>\$ 146.25</b>
Total Labor and markup, Subconsultants with fee and Invoiceable Direct Costs						\$ 8,259.15
<b>TASK TOTAL</b>						<b>\$ 8,259.15</b>

**Task No. 301 - Financing Assistance During Design (PWTF Modifications)**  
**City of Sultan**  
**Wastewater Treatment Plant Upgrade Project - Amendment 5**

Task Budget Breakdown

21-August-08

Direct Labor

Staff	Category/Name		Rate	Hours	Subtotal	Total
<b>Professional</b>						
	Project Manager	PRM	\$ 65.00	2	\$ 130.00	
	Technical Advisor	TAD	\$ 62.03	0	\$ -	
	Quality Control Reviewer	QCA	\$ 55.31	0	\$ -	
	Principal Engineer	PCE	\$ 43.00	18	\$ 774.00	
	Senior Engineer	SEN	\$ 35.00	0	\$ -	
	Engineer	ENG	\$ 30.00	0	\$ -	
	Associate Engineer	ASE	\$ 25.00	0	\$ -	
	Senior Electrical Engineer	SELEC	\$ 43.78	0	\$ -	
	Electrical Engineer	ELEC	\$ 35.00	0	\$ -	
	Senior Instrumentation E	SINS	\$ 43.00	0	\$ -	
	Instrumentation Engineer	INS	\$ 29.43	0	\$ -	
	Senior Structural Engineer	SSTR	\$ 48.00	0	\$ -	
	Senior Structural Engineer	STR	\$ 27.00	0	\$ -	
	Senior Operator	SOP	\$ 37.32	0	\$ -	
	<i>Subtotal</i>			20		\$ 904.00
<b>Technical</b>						
	Chief Drafter	CHD	\$ 38.26	0	\$ -	
	Senior Drafter	SDR	\$ 33.00	0	\$ -	
	Drafter	DRA	\$ 25.00	0	\$ -	
	Senior Graphic Designer	SDH	\$ 21.40	0	\$ -	
	<i>Subtotal</i>			0		\$ -
<b>Administrative</b>						
	Project Coordinator II	PR2	\$ 23.10	0	\$ -	
	Word Processor IV	WP4	\$ 23.09	0	\$ -	
	Senior Project Assistant	SPA	\$ 17.25	0	\$ -	
	<i>Subtotal</i>			0		\$ -
Subtotal Direct Labor				20		\$ 904.00
<b>Total Labor Cost</b>						\$ 904.00
	Total mark-up		3.20			\$ 2,892.80
<b>Subconsultant Costs</b>						
	Permitting - Adolfsen Associates					
	MWA Architects				\$ -	
<b>Total Subconsultant Costs</b>						\$ -
	Professional Fee -- Subconsultants		2%			\$ -
<b>Invoiceable Direct Costs</b>						
	Mileage		\$ 0.59		\$ -	
<b>Total Invoiceable Direct Costs</b>						\$ -
Total Labor and markup, Subconsultants with fee and Invoiceable Direct Costs						\$ 2,892.80
<b>TASK TOTAL</b>						\$ 2,892.80

**Task No. 400 - Centrifuge Design**  
**City of Sultan**  
**Wastewater Treatment Plant Upgrade Project - Amendment 5**

Task Budget Breakdown  
 21-August-08

Direct Labor

Staff	Category/Name		Rate	Hours	Subtotal	Total
<b>Professional</b>						
	Project Manager	PRM	\$ 65.00	10	\$ 650.00	
	Technical Advisor	TAD	\$ 62.03	16	\$ 992.48	
	Quality Control Reviewer	QCA	\$ 55.31	0	\$ -	
	Principal Engineer	PCE	\$ 43.00	150	\$ 6,450.00	
	Senior Engineer	SEN	\$ 35.00	0	\$ -	
	Engineer	ENG	\$ 30.00	120	\$ 3,600.00	
	Associate Engineer	ASE	\$ 25.00	0	\$ -	
	Senior Electrical Engineer	SELEC	\$ 43.78	0	\$ -	
	Electrical Engineer	ELEC	\$ 35.00	0	\$ -	
	Senior Instrumentation E	SINS	\$ 43.00	0	\$ -	
	Instrumentation Engineer	INS	\$ 29.43	0	\$ -	
	Senior Structural Engineer	SSTR	\$ 48.00	0	\$ -	
	Senior Structural Engineer	STR	\$ 27.00	0	\$ -	
	Senior Operator	SOP	\$ 37.32	0	\$ -	
	<i>Subtotal</i>			296		\$ 11,692.48
<b>Technical</b>						
	Chief Drafter	CHD	\$ 38.26	0	\$ -	
	Senior Drafter	SDR	\$ 33.00	50	\$ 1,650.00	
	Drafter	DRA	\$ 25.00	50	\$ 1,250.00	
	Senior Graphic Designer	SDH	\$ 21.40	0	\$ -	
	<i>Subtotal</i>			100		\$ 2,900.00
<b>Administrative</b>						
	Project Coordinator II	PR2	\$ 23.10	0	\$ -	
	Word Processor IV	WP4	\$ 23.09	0	\$ -	
	Senior Project Assistant	SPA	\$ 17.25	0	\$ -	
	<i>Subtotal</i>			0		\$ -
Subtotal Direct Labor				396		\$ 14,592.48
<b>Total Labor Cost</b>						\$ 14,592.48
Total mark-up			3.20			\$ 46,695.94
<b>Subconsultant Costs</b>						
Permitting - Adolfsen Associates					\$	-
MWA Architects					\$	-
<b>Total Subconsultant Costs</b>						\$ -
Professional Fee -- Subconsultants			2%			\$ -
<b>Invoiceable Direct Costs</b>						
Mileage				\$ 0.59	\$	-
Reproduction					\$	2,000.00
<b>Total Invoiceable Direct Costs</b>						\$ 2,000.00
Total Labor and markup, Subconsultants with fee and invoiceable Direct Costs						\$ 48,695.94
<b>TASK TOTAL</b>						\$ 48,695.94

Task No. 490 - Bid Period Services  
City of Sultan  
Wastewater Treatment Plant Upgrade Project - Amendment 5

Task Budget Breakdown  
21-August-08

Direct Labor

Staff	Category/Name		Rate	Hours	Subtotal	Total
<b>Professional</b>						
	Project Manager	PRM	\$ 65.00	2	\$ 130.00	
	Technical Advisor	TAD	\$ 62.03	0	\$ -	
	Quality Control Reviewer	QCA	\$ 55.31	0	\$ -	
	Principal Engineer	PCE	\$ 44.37	40	\$ 1,774.80	
	Senior Engineer	SEN	\$ 35.00	8	\$ 280.00	
	Engineer	ENG	\$ 30.00	0	\$ -	
	Associate Engineer	ASE	\$ 25.00	0	\$ -	
	Senior Electrical Engineer	SELEC	\$ 43.78	0	\$ -	
	Electrical Engineer	ELEC	\$ 35.00	0	\$ -	
	Senior Instrumentation E	SINS	\$ 43.00	0	\$ -	
	Instrumentation Engineer	INS	\$ 29.43	0	\$ -	
	Senior Structural Engineer	SSTR	\$ 48.00	0	\$ -	
	Senior Structural Engineer	STR	\$ 27.00	0	\$ -	
	Senior Operator	SOP	\$ 37.32	0	\$ -	
	<i>Subtotal</i>			50		\$ 2,184.80
<b>Technical</b>						
	Chief Drafter	CHD	\$ 38.26	0	\$ -	
	Senior Drafter	SDR	\$ 33.00	0	\$ -	
	Drafter	DRA	\$ 25.00	0	\$ -	
	Senior Graphic Designer	SDH	\$ 21.40	0	\$ -	
	<i>Subtotal</i>			0		\$ -
<b>Administrative</b>						
	Project Coordinator II	PR2	\$ 23.10	0	\$ -	
	Word Processor IV	WP4	\$ 23.09	2	\$ 46.18	
	Senior Project Assistant	SPA	\$ 17.25	0	\$ -	
	<i>Subtotal</i>			2		\$ 46.18
Subtotal Direct Labor				52		\$ 2,230.98
<b>Total Labor Cost</b>						\$ 2,230.98
Total mark-up			3.20			\$ 7,139.14
Subconsultant Costs						
Permitting - Adolfsen Associates					\$ -	
Geotechnical - Zipper Zeman Inc.					\$ -	
<b>Total Subconsultant Costs</b>						\$ -
Professional Fee – Subconsultants			2%			\$ -
Invoiceable Direct Costs						
Mileage				\$ 0.59	\$ -	
<b>Total Invoiceable Direct Costs</b>						\$ -
Total Labor and markup, Subconsultants with fee and Invoiceable Direct Costs						\$ 7,139.14
<b>TASK TOTAL</b>						\$ 7,139.14

Task No. 600 - 50% Design Deliverable  
City of Sultan  
Wastewater Treatment Plant Upgrade Project - Amendment 5

Task Budget Breakdown  
21-August-08

Direct Labor

Staff	Category/Name		Rate	Hours	Subtotal	Total
<b>Professional</b>						
	Project Manager	PRM	\$ 65.00	8	\$ 520.00	
	Technical Advisor	TAD	\$ 62.03	4	\$ 248.12	
	Quality Control Reviewer	QCA	\$ 55.31	0	\$ -	
	Principal Engineer	PCE	\$ 44.37	32	\$ 1,419.84	
	Senior Engineer	SEN	\$ 35.00	20	\$ 700.00	
	Engineer	ENG	\$ 30.00	0	\$ -	
	Associate Engineer	ASE	\$ 25.00	0	\$ -	
	Senior Electrical Engineer	SELEC	\$ 43.78	0	\$ -	
	Electrical Engineer	ELEC	\$ 35.00	0	\$ -	
	Senior Instrumentation Engineer	SINS	\$ 43.00	0	\$ -	
	Instrumentation Engineer	INS	\$ 29.43	0	\$ -	
	Senior Structural Engineer	SSTR	\$ 48.00	0	\$ -	
	Senior Structural Engineer	STR	\$ 27.00	0	\$ -	
	Senior Operator	SOP	\$ 37.32	0	\$ -	
	<i>Subtotal</i>			64		\$ 2,887.96
<b>Technical</b>						
	Chief Drafter	CHD	\$ 38.26	0	\$ -	
	Senior Drafter	SDR	\$ 33.00	30	\$ 990.00	
	Drafter	DRA	\$ 25.00	30	\$ 750.00	
	Senior Graphic Designer	SDH	\$ 21.40	0	\$ -	
	<i>Subtotal</i>			60		\$ 1,740.00
<b>Administrative</b>						
	Project Coordinator II	PR2	\$ 23.10	4	\$ 92.40	
	Word Processor IV	WP4	\$ 23.09	4	\$ 92.36	
	Senior Project Assistant	SPA	\$ 17.25	0	\$ -	
	<i>Subtotal</i>			8		\$ 184.76
Subtotal Direct Labor				132		\$ 4,812.72
<b>Total Labor Cost:</b>						\$ 4,812.72
	Total mark-up		3.20			\$ 15,400.70
<b>Subconsultant Costs</b>						
	Permitting - Adolfsen Associates				\$ -	
	Geotechnical - Zipper Zeman Inc.				\$ -	
<b>Total Subconsultant Costs</b>						\$ -
	Professional Fee – Subconsultants		2%		\$ -	
<b>Invoiceable Direct Costs</b>						
	Mileage		\$ 0.59		\$ -	
	production				\$ 2,500.00	
<b>Total Invoiceable Direct Costs</b>						\$ 2,500.00
Total Labor and markup, Subconsultants with fee and Invoiceable Direct Costs						\$ 17,900.70
<b>TASK TOTAL</b>						\$ 17,900.70