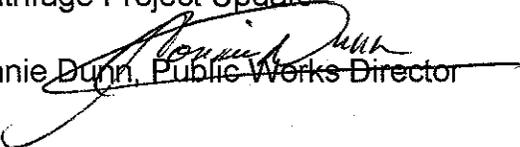


**SULTAN CITY COUNCIL
AGENDA ITEM COVER SHEET**

ITEM NO: Presentation - 3

DATE: June 11, 2009

SUBJECT: Wastewater Treatment Plant
Centrifuge Project Update

CONTACT PERSON:  Connie Dunn, Public Works Director

ISSUE:

Bo Vestergaard-Hansen will present an update on the Centrifuge Project and 50% of the treatment plant upgrade.

SUMMARY:

Bo Vestergaard-Hansen is replacing the former project manager Tadd Giesbrecht. Mr. Giesbrecht has been Brown and Caldwell's project manager for both the treatment plant expansion and centrifuge design projects, since 2007. Tadd recently decided to move to Idaho and Bo Vestergaard-Hansen has been assigned by Brown and Caldwell as project manager.

The City received bids for the installation contract for the centrifuge project and awarded the contract to Triad Mechanical, December 2008. Triad has been providing various submittals, which have been reviewed by Brown and Caldwell. Based on the submittal review of the centrifuge, a few minor changes have been made to accommodate the updated information.

The installation and commissioning of the centrifuge is required to be completed by October 31, 2009 (prior to rainy season) and installation to take place within 30 days after start of construction. Triad's submitted schedule is ahead of plan and within the allocated timeframe.

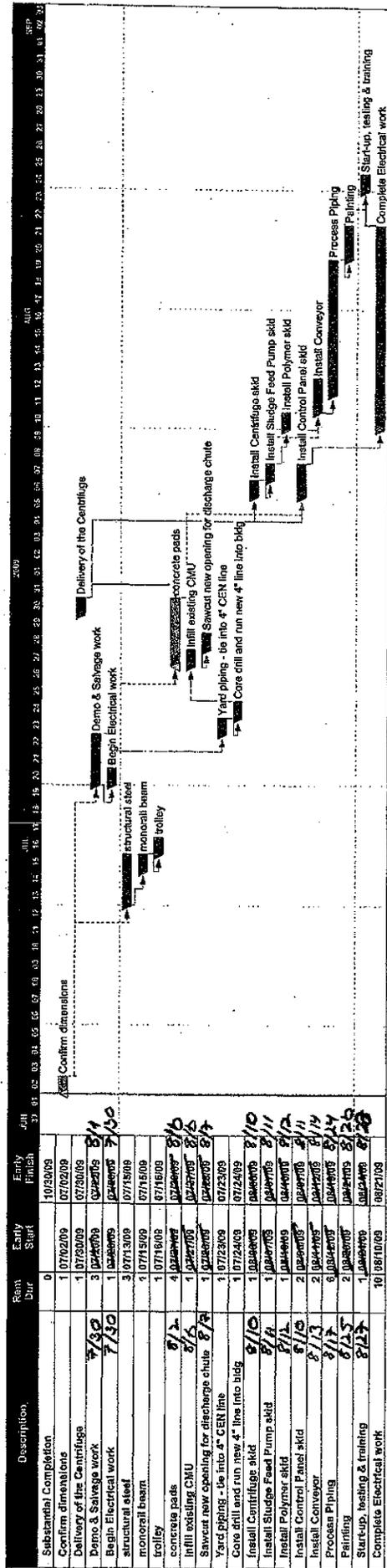
As part of Amendment No. 5, Brown and Caldwell will deliver to the City was the 50% design drawings of the treatment plant expansion. Mr. Vestergaard-Hansen will be presenting the 50% documents at the council meeting.

RECOMMENDATION:

Listen to the presentation by Mr. Vestergaard-Hansen. Ask questions regarding the construction schedule for the centrifuge installation.

ATTACHMENTS:

- A Construction Schedule for the Centrifuge Installation
- B Bo Vestergaard-Hansen Bio



Description	Start	Finish
Substantial Completion	10/20/09	10/20/09
Confirm dimensions	07/02/09	07/02/09
Delivery of the Centrifuge	07/30/09	07/30/09
Demo & Salvage work	07/30/09	07/30/09
Begin Electrical work	07/30/09	07/30/09
structural steel	07/15/09	07/15/09
monorail beam	07/15/09	07/15/09
concrete pads	07/15/09	07/15/09
Infill existing CMU	07/15/09	07/15/09
Sawcut new opening for discharge chute	07/15/09	07/15/09
Core drill and run new 4" line into bldg	07/23/09	07/23/09
Install Centrifuge skid	07/24/09	07/24/09
Install Sludge Feed Pump skid	08/04/09	08/04/09
Install Polymer skid	08/04/09	08/04/09
Install Control Panel skid	08/04/09	08/04/09
Process Piping	08/04/09	08/04/09
Painting	08/04/09	08/04/09
Start-up, testing & training	08/24/09	08/24/09
Complete Electrical work	08/27/09	08/27/09

Start date: 06/22/09 12:00AM
 Finish date: 08/24/09 4:59PM
 Data date: 07/02/09 12:00AM
 Run date: 05/11/09 1:00PM
 Page number: 1A

Triad Mechanical Inc.
 City of Sultan - Centrifuge

Revised 5/11/09 per B & C to show 7 days delay after concrete pads prior to setting equip skids.

Legend:
 ▲ Early start point
 ▬ Early bar
 ▬ Progress bar
 ▬ Critical bar
 ▬ Summary bar
 ▲ Progress point
 ▲ Critical point
 ▲ Summary point
 ▲ Start-up point
 ▲ Finish milestone point

© Primavera Systems, Inc.

Bo Vestergaard-Hansen, Project Manager
Brown and Caldwell
Seattle, WA

Education / License:

- * BS, Mechanical Engineering, University of Florida, 1999
- * MS, Mechanical Engineering, University of Washington, 2001
- * Professional Engineer, Lic. No. 41941, Washington 2005

I started working for Brown and Caldwell in 2001 and have been there my entire career (8 years of experience). I have worked on all aspects of a wastewater treatment plant; my focus is mainly on the biosolids side. My roles have included project engineer, design manager, and project manager and I have worked on feasibility studies, designs, and construction support. Below are a few project descriptions that may be of interest / importance to the Council (these are biosolids and project management focused; I can send my most recent resume if you'd like to see all the project I have worked on).

For the City of Sultan, I done the following:

- * Served technical lead on the dewatering design for the treatment plant expansion.
- * Finalized the 50% design
- * Developed the temporary alternative biosolids management options
- * Designed the centrifuge installation for the current project.
- * Managed the construction part of the centrifuge project since mid April, including submittal reviews and coordination with Triad.

Lakehaven Utility District, Federal Way, Washington

Project Manager. Managing a 3-year, \$1.4 million, on-call contract for various wastewater services. Projects include plant capacity assessments, process equipment condition assessments, operator training, construction management, and design services.

Solids Handling Building, Picnic Point Treatment Plant, Alderwood, Washington

Project Engineer / Design Manager. Developed technology descriptions and life-cycle cost analyses to assist the District in selecting a biosolids management option. Developed pre-purchase documents for the District and assisted the District in evaluating the proposals and pre-selecting a biosolids dryer that met the qualifications and specifications. Designed the solids handling facility at the Picnic Point treatment plant, including WAS storage, sludge and cake pumping, polymer system, centrifuge dewatering, pre-selected biosolids drying system, and dried product handling system.

Western Wake Biosolids Dryer, Town of Cary, North Carolina

Project Engineer / Design Manager. Currently developing the pre-design technical memoranda to assist the City in selecting their solids treatment process, including solids thickening, dewatering, and drying options. The facility will include a biosolids dryer with an integrated energy recovery system using the dried biosolids as the fuel source. Bo

will manage the design of the solids handling facility and will serve as the technical lead for the dewatering and drying equipment.

Biosolids Dewatering, South Treatment Plant, Renton, Washington Engineer. The South Treatment Plant expanded its dewatering capacity with new high-speed centrifuges. Designed polymer and sludge pumps for new centrifuges and upgraded the existing dry polymer system to accommodate increased demand from the centrifuges. Designed polymer injection mixers to aid the mixing of sludge and polymer, which increases solids capture in the centrifuges. Responsibilities included process design, mechanical design, and integration with centrifuge operation.

Screenings and Grit Removal, Cathcart Way Site Wastewater Pre-Treatment Facility, Snohomish County, Washington

Project Manager. The pretreatment facility treats leachate from the landfill and flows from the vector decant facility. The vector decant facility contributes significant amounts of plastics and grit, which must be manually removed from the aerated lagoons. Evaluated two alternative screenings and grit removal facilities and completed a pre-design for the selected packaged system, including preliminary facility and site layouts, hydraulic profile, and construction cost estimate. Final design is completed and the project is in the construction phase. Bo will manage the construction efforts.