



REPORT TO MAYOR AND CITY COUNCIL

AGENDA ITEM

TO: THE HONORABLE MAYOR
AND CITY COUNCIL

DATE: July 15, 2008

SUBJECT: Approve Plans and Specifications and Authorize Cal for Bids for the Wastewater Treatment Plant Chemical Facilities and Miscellaneous Improvements, Project No. 03-28

Report in Brief

In June 2005, the City executed a construction contract with Overaa Construction, to construct the wastewater facility project, which included expansion, tertiary treatment, and flood protection improvements designed by West Yost. The work was performed in accordance with the plans and specifications and was accepted by Council on March 18, 2008.

Subsequently, additional work was identified by staff to improve plant functionality and repair damaged landscaping. The works includes Polymer Feed Facility & Equipment, UV Overflow Weir, Filter Pump Electrical Disconnects, and Landscaping.

West Yost prepared construction documents for the additional work which are complete and ready for the City Council's approval. Bid opening is scheduled for late August and award of a construction contract in mid-September.

Staff recommends that the City Council approve the plans and specifications and authorize bid advertisement for the Wastewater Treatment Plant Chemical Facilities and Miscellaneous Improvements, Project No 03-28.

Background

The WWTP Expansion, Project No. 00-52 increased the average dry weather flow capacity from 7.8 million gallons per day (mgd) to 10.4 mgd. The WWTP Tertiary Treatment Improvements, Project No. 03-28 included new Cloth-Disc Filters and Ultraviolet Disinfection. The WWTP Flood Protection, Project No. 03-39 included construction of levees around the WWTP Mechanical Plant proper and Overflow Pond to provide flood protection from a 100-year Cache Creek flood event, and build-up the levees around the remaining ponds to protect against a localized 100-year flood event. The project was completed earlier this year and Council accepted the improvements as complete on March 18, 2008.

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Discussion

Staff has identified additional improvements to the facility, which would improve functionality and complete work that did not get done with the larger project. Those improvements include:

Polymer Feed Facility & Equipment

Upgrade of the chemical feed facility will add additional storage for polymer and to make the present site a permanent storage location. The present storage facility is not hazmat compliant because there isn't any spill containment in the structure. Also the polymer storage site has very limited chemical storage and the new tank will allow for five (5) months of polymer storage on site. One additional feature consists of a hypo-chloride storage facility to allow the introduction of a bleach solution to the oxidation ditches, to address bacteria contamination.

UV Overflow Weir

The UV effluent weir will be installed to prevent any chance of the UV system flooding from a failed actuator, which has been a reoccurring problem with the current UV system. Following UV effluent weir installation, the bypass valve will remain open at all times. If the plant goes into bypass mode, the effluent valve will close and divert the UV effluent over the new weir system and back to the plant headworks.

Filter Pump Electrical Disconnects

The filter pump electrical disconnect switches are an upgrade item needed to make the filter, sludge, and waste pumps compliant with Cal-OSHA electrical standards.

Landscaping

The landscaping is a carry-over from the large expansion project. The original bid received by the general contractor (Overaa) was deemed high. Since this bid was received late in the construction period, staff deferred the work in order to obtain a lower price through a competitive bid process.

West Yost completed the construction documents on July 2, 2008, and the project will be publically advertised for bids in accordance with the City's Procurement Ordinance pending the City Council's approval.

Fiscal Impact

The improvements associated with the Wastewater Treatment Plan Chemical Facilities and Miscellaneous Improvements, Project No. 03-28 are tied to the original Tertiary Improvements, Project No 03-28. The approved PPSS (May 2005) included a project budget of \$14,438,000. The final expenditures were \$12.6 Million leaving a balance of approximately \$1.84 Million, which is being applied to the current project.

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The estimated cost for construction is \$513,881, which is within the balance available, after design, project management and construction management costs are deducted.

Public Contact

Posting of the City Council agenda.

Recommendation for Action

Staff recommends that the City Council approve the plans and specifications and authorize bid advertisement for the Wastewater Treatment Plant Chemical Facilities and Miscellaneous Improvements, Project No 03-28.

Prepared by: Alan Mitchell, P.E.
Project Manager,
Ponticello Enterprises

Reviewed by: Michael Karoly
Senior City Engineer

Reviewed by: Dick Donnelly
City Engineer

Reviewed by: Robert MacNicholl
Acting Community
Development Director

Mark G. Deven
City Manager

Attachments: Plans and Specifications (available through the City Engineer's office)
Approved PPSS (March 2005)

Date: June 2003
 Revised: October 2004
 May 2005

Engineering

PROJECT PROGRAMMING SUMMARY

PROJECT NO.: 03-28 **PROJECT TITLE: Wastewater Treatment Plant Tertiary Treatment Improvements**

PM: PW-Engineering **OWNER:** Public Works - Utilities

PRE-DESIGN	\$	118,500	CONSTRUCTION MGMT.:	\$	675,043
DESIGN:	\$	1,172,398	PROJECT MGMT.:		222,838
CONSTRUCTION:	\$	11,135,655			
CONTINGENCY:	\$	1,113,566	PROJECT TOTAL:	\$	14,438,000

PROJECT DESCRIPTION:

Upgrade the existing wastewater treatment plant with tertiary treatment filters and ultraviolet disinfection.

PROJECT JUSTIFICATION:

The upgrade is a condition of the 2003 NPDES Permit.

APPROVED
 by cc 5/17/05

PROJECT STAGING:

1. Pre-Design 2004/05
2. Design 2004/05
3. Construction 2005/06

FUND NO.	PRGM. NO.	MPFP NO.	MPFP %	TOTAL-PART	TOTAL AMT, \$K	04/05 AMT, \$K	05/06 AMT, \$K
585	0328	WSTE-112	37.5	T	5,414	281	5,133
220	0328	WSTE-112	62.5	T	9,024	570	8,454

Notes:

SOURCE OF FUNDING:

Development Fee – 37.5% (Sewer Development)
 General Revenue – 62.5% (Enterprise Funds)

RECOMMENDED FOR SUBMITTAL	<u>A. MITCHELL (PONTICELLO)</u>	DATE	<u>5/12/05</u>
RECOMMENDED FOR APPROVAL (DEPT. HEAD)	<u>[Signature]</u>	DATE	<u>5/12/05</u>
MPFP APPROVAL (PUBLIC WORKS)	<u>[Signature]</u>	DATE	<u>5/12/05</u>
FINANCE DEPARTMENT APPROVAL	<u>[Signature]</u>	DATE	<u>5/12/05</u>
CITY MANAGER APPROVAL	<u>[Signature]</u>	DATE	<u>5/18/05</u>