



# CITY OF HAYWARD

Hayward City Hall  
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## Cover Memo

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**File #:** CONS 16-310, **Version:** 1

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**DATE:** June 14, 2016

**TO:** Mayor and City Council

**FROM:** Director of Utilities & Environmental Services

### **SUBJECT**

Water Pollution Control Facility (WPCF) Headworks Rehabilitation Project: Approval of Addendum No. 1, Award of Construction Contract, and Appropriation of Funds.

### **RECOMMENDATION**

That Council adopts the attached resolutions:

1. Approving Addendum No. 1, which provides minor revisions to the Plans and Specifications
2. Awarding the contract to TNT Industrial Contractors, Inc., in the amount of \$1,722,248, and
3. Appropriating additional funds in the amount of \$1,422,248 in FY 2016.

### **BACKGROUND**

The City's WPCF provides treatment for wastewater collected from the City's residential and business communities. The facility treats an annual average flow of twelve million gallons per day (MGD) and meets current requirements to discharge treated effluent to the deep waters of the San Francisco Bay. All of the flow coming to the WPCF passes through the headworks and is conveyed through influent channels with grinders designed to break down large debris prior to pumping to downstream treatment processes. The Headworks Building was originally constructed in 1996 and is an essential facility at the WPCF.

A recent structural inspection revealed substantial deterioration of the concrete on the interior deck of the influent channels inside the Headworks Building caused by exposure to hydrogen sulfide, a corrosive gas and a common byproduct of sewer collection and conveyance. The protective coatings originally installed in the headworks had deteriorated over the years and in some areas had completely failed leading to substantial corrosion including loss of the cement covering the reinforcing steel in some areas. The Headworks Rehabilitation Project is intended to repair concrete areas that have deteriorated, as well as provide for new concrete coatings and improved ventilation inside the building. In February 2016, staff selected and entered into a professional services agreement with Carollo Engineers for design and engineering services during construction for the Headworks Rehabilitation Project.

## DISCUSSION

On May 3, 2016, Council approved the plans and specifications for the project and called for bids to be received on June 7, 2016. The City received four (4) bids for the project, ranging from \$1,722,248 to \$2,040,000. TNT Industrial Contractors, Inc. submitted the low bid in the amount of \$1,722,248, which is approximately 14% below the Engineer's estimate of \$2,015,000.

## ECONOMIC IMPACT

Hayward has both a robust industrial area and a firm commitment to protection of the environment and to sustainability. Rehabilitating the Headworks is essential to maintaining the ability to treat the City's waste water appropriately. Without a functioning Headworks facility, we not only risk potential sewer overflows in the City, but jeopardize the ability to convey the wastewater to treatment processes downstream. Retrofitting and maintaining existing facilities is essential for environmental protection of the San Francisco Bay and continued economic development in the City.

## FISCAL IMPACT

The estimated project costs are as follows:

Design and Engineering Services During Construction (Consultant)	\$ 275,000
Design Administration - City Staff	25,000
Construction Contract (Including Administrative Change Orders)	\$1,722,248
Inspection and Testing (Estimated)	<u>50,000</u>
Total	\$2,072,248

The FY 2016 and FY 2017 Capital Improvement Program (CIP) includes funding for the projects described in the Sewer Replacement Fund (Fund 611). The projects are described in the approved CIP as follows:

Fund	Project No.	Description	Budget
611	TBD	FY17 WPCF Headworks Renewal and Replacement Project	\$ 1,100,000
611	07660	FY 16 WPCF Headworks Wetwell Concrete Evaluation, Repair & Interior Coating	500,000
611	07663	FY 16 WPCF Headworks Ventilation Modifications	<u>150,000</u>
		Total	\$1,750,000

Because of the critical timeline for beginning the construction of the project this month, a few weeks before beginning of FY 2017, and because the project cost for the current configuration is higher than the amounts budgeted in the CIP, staff is requesting an amendment appropriating funds in the amount of \$1,422,248 from the Sewer Replacement Fund (611) to fully fund the project in FY 2016. This additional appropriation includes \$1.1 million that was budgeted for expenditure in FY 2017, but which will now be used in FY 2016. The current project cost is \$322,248 higher than the preliminary estimates included in the CIP. The preliminary estimates were based on the best available information at the time. During the inspection and design process, more issues came to light which pushed the total project cost higher.

## SUSTAINABILITY FEATURES

Water: Efficiency and conservation.

Maintain ability to efficiently and adequately treat wastewater before discharging into San Francisco Bay.

## PUBLIC CONTACT

All work will be within the WPCF plant boundary; therefore no public contact is necessary for this project.

## SCHEDULE

The following schedule has been developed for this project:

Approval of Plans and Specifications and Call for Bids	May 3, 2016
Award of Construction Contract	June 14, 2016
Construction Completion	December 2016

*Prepared by:* Suzan England, Senior Utilities Engineer

*Recommended by:* Alex Ameri, Director of Utilities & Environmental Services

Approved by:



Fran David, City Manager

Attachments:

Attachment I Resolution  
Attachment II Resolution Appropriating Funds  
Attachment III Bid Summary