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## CITY OF SANTA BARBARA

### COUNCIL AGENDA REPORT

**AGENDA DATE:** June 16, 2020

**TO:** Mayor and Councilmembers

**FROM:** Engineering Division, Public Works Department

**SUBJECT:** Contracts For Design And Permitting Of The Desal Pump Platform Hardening Project

**RECOMMENDATION:** That Council

- A. Authorize the Public Works Director to execute a Professional Services Agreement with Moffatt and Nichol in the amount of \$126,400 for engineering design services of the Desal Pump Platform Hardening Project, and authorize the Public Works Director to approve expenditures of up to \$12,640 for extra services of Moffatt and Nichol that may result from necessary changes in the scope of work; and
- B. Authorize the Public Works Director to execute a Professional Services Agreement with Dudek in the amount of \$150,000 for assistance with California Environmental Quality Act processing and coastal permitting services for the Desal Pump Platform Hardening Project, and authorize the Public Works Director to approve expenditures of up to \$15,000 for extra services of Dudek that may result from necessary changes in the scope of work.

#### **DISCUSSION:**

##### Background

Much of the infrastructure that supports the Charles E. Meyer Desalination Plant Project was installed in the early 1990s by Ionics, Inc. This infrastructure included the placement of two concrete slabs on the ocean floor to provide platforms for each of the two intake pumps. These pumps provide the supply of water which is then converted to drinking water. As a result of a surplus water supply from the rains in March 1995, the desalination infrastructure was taken out of service, until just recently, when the plant was reactivated in response to water shortages.

In 2016, as the desalination plant was being put back into service, new pumps were to be placed on the platforms to provide the source water for the treatment plant. During the initial dives to inspect the platforms and prepare them for the new pumps, it was discovered that one of the platforms was suspended about 18 inches above the ocean floor. It was then determined that neither of the platforms had been constructed with any

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armor rock which is required to prevent strong currents from scouring the ocean sand away from under the slabs. After initial discussions with California Coastal Commission (CCC) staff, the City was able to get permission to install a temporary solution to avoid the potential catastrophic failure of Platform B. This solution included the placement of temporary plastic shoring around the perimeter and the placement of gravel fill under the slab. While this solution may provide some benefit if the slab were to drop, it is not a permanent solution for the long term.

City staff applied for and eventually obtained a Federal Emergency Management Agency (FEMA) grant under the Hazard Mitigation Grant Program, for the design and construction of a permanent repair. Due to the lengthy permitting time required to process a CCC permit, the grant was split into two phases – design and construction. These two contracts will complete the first phase of the grant. Once the necessary agency permits have been obtained, FEMA will authorize the construction funding as the second phase.

### Project Description

The engineering work consists of reviewing the current status of the platforms and developing three construction alternatives to provide the needed support and protection for the slabs. Once the alternatives are vetted for California Environmental Quality Act (CEQA) issues and Coastal Act policies, the final design plans will be developed to a 65% level.

The CEQA and Coastal permitting services will commence with a cursory analysis of the three alternatives and a recommendation regarding the ability to permit each one of them through the regulatory agencies. A selection of the proposed design will then be made. Once the final alternative is selected, the consultant will prepare the necessary application and supporting studies and analyses to successfully process the project through CEQA and National Environmental Protection Act (NEPA) processes. The NEPA review is a requirement of the Federal grant funding from FEMA.

### Design Phase Consultant Engineering Services

Staff recommends that Council authorize the Public Works Director to execute a contract for the Desal Pump Platform Hardening Project (Project) with Moffatt and Nichol in the amount of \$126,400 for design, \$12,640 for potential extra services, for a total amount of \$139,040. Moffatt and Nichol is experienced in this type of work and was selected as a result of a Request for Proposal (RFP) process in which six other firms were also invited.

### CEQA and Coastal Act Permitting Assistance Services

Staff recommends that Council authorize the Public Works Director to execute a contract for the Project with Dudek in the amount of \$150,000 for assistance with CEQA processing and coastal permitting services, and \$15,000 for potential extra services, for a total amount of \$165,000. Dudek is experienced in this type of work and was selected as a result of a Request for Proposals process in which six other firms were also invited.

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**BUDGET AND FINANCIAL INFORMATION:**

Funding

Funding is proposed to be from the Water Capital Fund and the FEMA Disaster Fund accounts, with future reimbursement from FEMA.

The following summarizes all estimated total Project costs:

**ESTIMATED TOTAL PROJECT COST**

Design (by Contract)	\$139,040
Other Design Costs - environmental and coastal processing	\$165,000
City Staff Costs – grant admin, RFP, design, and permitting	80,000
<b>Subtotal</b>	<b>\$384,040</b>
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Estimated Construction Contract w/Change Order Allowance	\$1,062,000
Completion of Engineering Design Work, Bid and Award	\$84,500
Estimated Construction Management/Inspection (by Contract or City)	\$30,000
Estimated Other Construction Costs - Permit Compliance and Grant Reporting, Record drawings	\$25,000
<b>Subtotal</b>	<b>\$1,201,500</b>
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<b>TOTAL PROJECT COST</b>	<b>\$1,585,540</b>

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**ESTIMATED TOTAL PROJECT COST**

*\*Cents have been rounded to the nearest dollar in this table.*

	<b>GRANT OR PROP</b>	<b>CITY SHARE</b>	<b>TOTAL</b>
Consultant Design Cost to 65%	\$104,280	\$34,760	<b>\$139,040</b>
Consultant CEQA and Coastal	\$112,500	\$37,500	<b>\$150,000</b>
City Staff Permitting/Design Costs	\$60,000	\$20,000	<b>\$80,000</b>
<b><i>Design Subtotal</i></b>	<b>\$276,780</b>	<b>\$92,260</b>	<b>\$366,040</b>
Construction Contract	\$723,750	\$241,250	<b>\$965,000</b>
Construction Change Order Allowance	\$72,375	\$24,125	<b>96,500</b>
<b><i>Subtotal</i></b>	<b>\$796,125</b>	<b>\$265,375</b>	<b>\$1,061,500</b>
Construction Management/Inspection	\$22,500	\$7,500	\$30,000
Permit Compliance and Record Drawings	\$15,000	\$5,000	20,000
Complete Design, Bid and Award	\$63,375	\$21,125	84,500
Grant Management	\$15,000	\$5,000	\$20,000
<b><i>Subtotal</i></b>	<b>\$115,875</b>	<b>\$38,625</b>	<b>\$154,500</b>
<b><i>Construction Subtotal</i></b>	<b>\$912,000</b>	<b>\$304,000</b>	<b>\$1,216,000</b>
<b>TOTAL PROJECT COST</b>	<b>\$1,188,780</b>	<b>\$396,260</b>	<b>\$1,582,040</b>

There are sufficient appropriated funds in the Water Capital Fund and the FEMA Disaster Fund to cover these costs.

**WATER COMMISSION RECOMMENDATION:**

This item was presented to the Water Commission at its meeting on May 21, 2020, and the Commission voted X-X in support of staff's recommendations.

A copy of the contract may be requested from the Public Works Department for public review; please contact us at [PWInfo@SantaBarbaraCA.gov](mailto:PWInfo@SantaBarbaraCA.gov) to request a copy.

**PREPARED BY:** Brian D'Amour, City Engineer/TE/sk

**SUBMITTED BY:** Rebecca J. Bjork, Public Works Director

**APPROVED BY:** City Administrator's Office