



Meeting Date: 07/17/07

ACTION	TYPE OF ITEM
<input type="checkbox"/> Approved Recommendation	<input checked="" type="checkbox"/> Info/Consent
<input type="checkbox"/> Ord. No(s). _____	<input type="checkbox"/> Report
<input type="checkbox"/> Res. No(s). _____	<input type="checkbox"/> Public Hearing (Info/consent)
<input type="checkbox"/> Other _____	<input type="checkbox"/> Other _____

Prepared By: Anthony Emmert *AE* Agenda Item No. I-8  
 Reviewed By: City Manager *[Signature]* City Attorney *Gillig* Finance *SW* Public Works *Ortega*

**DATE:** June 21, 2007

**TO:** City Council

**FROM:** Mark Norris, Assistant Public Works Director/Utilities Services Manager  
 Public Works Department, Utilities Services Branch *[Signature]*

**SUBJECT:** **Prequalification and Procurement of Microfiltration/Ultrafiltration, Reverse Osmosis, and Ultraviolet/Advanced Oxidation Equipment (Project Specification No. PW07-21) for the Advanced Water Purification Facility Project Phase 1, at Perkins Road north of Magellan Way**

**RECOMMENDATION**

That City Council: (1) approve Project Specification No. PW07-21 for prequalification and procurement of Microfiltration/Ultrafiltration (MF/UF), Reverse Osmosis (RO) and Ultraviolet/Advanced Oxidation (UV/AOX) equipment for the Advanced Water Purification Facility (AWPF) Phase 1 Project, at Perkins Road north of Magellan Way (Project Specification PW07-21).

**DISCUSSION**

The AWPF Phase 1 Project, is a critical component of the City-approved Groundwater Recovery Enhancement and Treatment (GREAT) Program, a holistic water resources project, which will increase the City's water supply, improve water supply reliability, increase water-use efficiency, maintain water quality, reduce dependence on imported water, and help local groundwater aquifers recover from chronic over pumping and seawater intrusion. The AWPF Phase I Project will treat secondary-treated effluent that is now being discharged to the Pacific Ocean to produce up to 6.25 million gallons per day of highly purified recycled water. The AWPF will utilize microfiltration/ultrafiltration, reverse osmosis, and advanced oxidation treatment to produce recycled water product that meets the stringent state requirements for groundwater injection and irrigation of edible crops. The City is designing the AWPF to be expandable to ultimately produce up to 25 million gallons per day of recycled water.

The recycled water produced by the AWPF will be used for landscape irrigation, industrial processes, agricultural irrigation, and groundwater injection. The use of recycled water for landscape irrigation and industrial processes will directly offset the use of potable water for existing and new water customers. The use of recycled water for agricultural irrigation and groundwater injection will produce groundwater credits, which the City will use to pump groundwater from areas not subject to seawater intrusion.

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Due to the importance of the AWPf's treatment equipment, the City is prequalifying and procuring the equipment prior to completion of the final design documents. The City is requiring that the selected microfiltration/ultrafiltration (MF/UF) and reverse osmosis (RO) equipment manufacturers conduct proof pilot testing of their equipment on secondary-treated effluent from the City's Wastewater Treatment Plant, in order to verify that the equipment can produce recycled water meeting the state's strict quality standards. Additionally, due to variations in dimensions and function of the MF/UF, RO and ultraviolet/advanced oxidation (UV/AOX) equipment, the design team needs to know ahead of time which equipment vendors will be supplying the treatment equipment. The AWPf Project design team will utilize equipment specifications and dimensions from the selected vendors, as well as information from the proof pilot tests of the MF/UF and RO equipment, to complete the AWPf Project final design documents.

The prequalification and procurement of the MF/UF, RO, and UV/AOX scope of work is limited to equipment selection, pilot testing, and shop drawing review. Equipment fabrication will be included in the scope of work for the construction of the AWPf Phase 1, which will be put out to bid following completion of the final design documents. The City's procurement process will involve both a review of equipment manufacturers' qualifications, and for those that qualify a review of competitive cost proposals. This two-step process will result in the best equipment for a competitive price.

#### **FINANCIAL IMPACT**

The estimated cost for the prequalification, selection, pilot testing, and shop drawings of MF/UF, RO, and UV/AOX equipment is \$844,000. There are sufficient funds in Account No. 601-6552-821-8604, Project 066009, GREAT Desalter, to cover the cost of the prequalification and pilot testing.

The estimated total cost for MF/UF, RO, and UV/AOX equipment is \$7,500,000. The estimated cost for the fabrication of the equipment is \$6,656,000, which will be included in the scope of work for the construction of the AWPf Phase I Project, expected to commence in 2009. Staff will return to Council to appropriate the remaining amount of \$6,656,000, upon the completion pilot testing.

(TS:ts)

Attachment #1 – Project Estimate

Note: Copies of Project Specification PW07-21 are available for review at the Circulation Desk in the Library, after 6:00 p.m. on the Thursday prior to the Council meeting, at the City Clerks Office after 8:00 a.m. on Monday, and the Public Works Department, Contract Procurement Office, at 1060 Pacific Avenue, Building 2.

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**CITY OF OXNARD  
CAPITAL IMPROVEMENT PROJECT ESTIMATE**

Project Title: Advanced Water Purification Facility Equipment Procurement Specification No: PW07-21

Account No: 601-6552-821-8604 Project No. 066009 Project Manager: Anthony Emmert

I. EXTERNAL SERVICES	Original Estimate Amount	Revised Estimate Amount	Actual Cost
A. Architectural/ Engineering (8201)			
1. Preliminary Feasibility			
2. Design or Construction			
3. Specification/Cost Estimate			
B. Planning/EIR Services (8206)			
C. Real Estate Services (8207)			
D. Construction Services (8208)			
1. Surveys			
2. Soils Analysis			
3. Inspection			
4. Testing			
5. Atlas Fees			
6. Plans and Records			
7. Misc. (postage, reproductions, etc.)			
Total External Services			
II. INTERNAL SERVICES			
A. Design Engineering (8451)			
B. Inspection (8451)			
C. Survey (8451)			
D. Contract Administration (8451)			
E. Contract Procurement (8451)*	4,000	4,000	
Total Internal Services	4,000	\$ 4,000	
III. CONSTRUCTION/ACQUISITION			
<small>Funding for items in this section must be in place before contract is awarded</small>			
A. Land, Easements and Rights-of-Way (8601)			
B. Buildings:			
8602-New			
8603-Major Repair			
C. Improvements other than Buildings			
8604-New	750,000	750,000	
8605-Major Repair			
D. Machinery/Equipment (8606/8607)			
Total Construction/Acquisition	750,000	\$ 750,000	
IV. OTHER PROJECT COSTS:			
A. Project Contingencies (8802)	75,000	75,000	
B. CIP Indirect Cost (2% of total project costs)	15,000	15,000	
Total Other Costs	90,000	\$ 90,000	
<b>Project Total</b>	<b>844,000</b>	<b>\$ 844,000</b>	

Total Appropriation \_\_\_\_\_  
Less: Encumbrances & Expenditures \_\_\_\_\_  
Balance Available \_\_\_\_\_

\*NOTICE  
Approval of this estimate authorizes the transfer of the amount shown in item II-E from the project listed above to Public Works Contract Procurement Account No. 101-3201-553-7337, when bid solicitation services begin.

Prepared by: [Signature]  
Date: 10 July 2007

Approved by: \_\_\_\_\_  
Date: \_\_\_\_\_