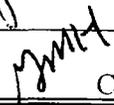
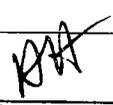
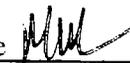




Meeting Date: 03/25/08

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: Mark Norris  Agenda Item No. I-7

Reviewed By: City Manager  City Attorney  Finance  Public Works 

DATE: March 17, 2008

TO: City Council

FROM: Mark Norris, Assistant Public Works Director
Public Works Department, Utilities Services Branch 

SUBJECT: **Microfiltration/Ultrafiltration and Reverse Osmosis Proof Pilot Testing Systems for the Advanced Water Purification Facility Project Phase 1, at Perkins Road north of Magellan Way**

RECOMMENDATION

That City Council:

- 1) Approve and authorize the Mayor to execute an agreement with Pall Corporation for a Membrane Filtration (MF) System Membrane Filtration Proof Pilot System (Agreement No. A-7017).
- 2) Approve and authorize the Mayor to execute an agreement with Membrane Systems, Inc. for a Reverse Osmosis System Reverse Osmosis Proof Pilot Testing (Agreement No. A-7018).
- 3) Approve the special budget appropriation of funds in the amount of \$204,000 from the 2006 Water revenue project bonds interest earnings to the GREAT – AWPf Project to fund the MF and RO Proof Pilot Test Systems for the Advanced Water Purification Facility (AWPF) Phase 1 Project.

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 ultraviolet/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.

Due to the importance of the AWPf's treatment equipment, 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. 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 City's Finance Department, Purchasing Division and Water Resources Division prepared a competitive Request for Bid for the MF, RO, and UV/AOX Proof Pilot Test Systems. The City's procurement process involved both a review of equipment manufacturers' qualifications and, for those that qualify, a review of competitive cost proposals. This two-step process helps to ensure that the City will get the best equipment for a competitive price.

Pall Corporation and Membrane Systems, Inc. provided the best bids for the Reverse Osmosis and MF Proof Pilot Test Projects, respectively, and the department recommends that the City award them the contracts for proof pilot testing. Trojan Technologies will also provide the proof pilot testing at no cost and thus the department recommends that the City award them the contract for proof pilot testing. All three systems need to provide the City with the required results in order for any contract to proceed.

The total cost for full-scale MF and RO equipment is \$7,763,352.27, but performance and payment will only continue beyond the amount appropriated if the test phase yields the desired result. Staff will return to Council to appropriate the remaining amount of \$7,559,352.27, upon the successful completion of the proof pilot testing.

FINANCIAL IMPACT

The estimated cost for the MF and RO Proof Pilot Test Systems is \$204,000. Sufficient funds will be appropriated to Project No. 066010, Account No. 601-6553-821-8209 from the Water Operating Fund to cover the anticipated costs.

Attachment #1 – Agreement No. A-7017

Attachment #2 – Agreement No. A-7018

Attachment #3 – Special Budget Appropriation

Note: Agreement Nos. A-7017 and A-7018 have been provided to the City Council. Copies are available for review at the Circulation Desk in the Library after 6:00 p.m. on the Thursday prior to the Council meeting and at the City Clerk's Office after 8:00 a.m. on Monday.

CITY OF OXNARD
REQUEST FOR SPECIAL BUDGET APPROPRIATION

To the City Manager:

March 25, 2008

Request is hereby made for an appropriation of total \$ 204,000

Reason for appropriation: Appropriate funds from the Water Operating Fund Balance for the
 GREAT-AWPF Project Phase 1

<u>FUND</u>	<u>DESCRIPTION/ACCOUNT</u>	<u>AMOUNT</u>
Water (601)	Great - AWPF Project	
	601-6553- (066010)	
	821-8209 - Services Other Professional	<u>204,000</u>
	 Net Estimated Change to Water Fund Balance	 <u>(204,000)</u>



 Manager

REQUIRES CITY COUNCIL APPROVAL

DIRECTOR OF FINANCE



Disposition

Transfer by Journal Voucher _____

Approved _____

Rejected _____

City Manager