



Meeting Date: 07 / 28 /09

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: Lou Balderrama, City Engineer Agenda Item No. I-16

Reviewed By: City Manager [Signature] City Attorney [Signature] Finance [Signature] Public Works [Signature]

**DATE:** July 15, 2009

**TO:** City Council

**FROM:** Lou Balderrama, City Engineer [Signature]  
Public Works Department

**SUBJECT:** Construction of Chemical Building No. 3 Project

**RECOMMENDATION**

That City Council:

1. Approve Project Specification No. PW08-10 for the construction of Chemical Building No. 3 at Blending Station No. 1, located at the City's Water Campus on 251 South Hayes Avenue, and authorize staff to solicit bids for the project.
2. Approve a Special Budget Appropriation of \$1,493,375 transferring from the Blending Station #3 Desalter Project No. 066011 to the Chemical Building No. 3 – GREAT Program Project No. 086503 for the construction of Chemical Building No. 3.

**DISCUSSION**

Chemical Building No. 3 is an essential component of the Groundwater Recovery Enhancement and Treatment (GREAT) Program. The GREAT Program Brackish Water Desalter suite of projects at the City's Water Campus allows the City to produce and treat poor-quality groundwater in lieu of purchasing imported water. Construction of the Chemical Building No. 3 will meet the requirements of the California Department of Public Health, as per the City's November 2008 amended domestic water supply permit, with respect to corrosion control. It will also provide space for the optional future replacement of natural levels of fluoride.

The Chemical Building No. 3 will contain the corrosion control system, and space for the optional future replacement fluoride treatment chemical system. The high purity of the reverse osmosis permeate from the GREAT Desalter makes it corrosive to most metals and concrete, including the City's water distribution system and home piping.

**Subject: Construction of Chemical Building No. 3 Project**

**July 15, 2009**

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As directed by the California Department of Public Health, the City will add corrosion inhibition treatment chemicals to the reverse osmosis permeate to prevent such corrosion. In addition to removing hardness minerals from the poor-quality groundwater, the GREAT Desalter's reverse osmosis system removes beneficial natural fluoride. In the future, the City may consider adding replacement fluoride to the reverse osmosis water, in order to maintain the dental health benefits to water consumers, as per the California Health & Safety Code, (California Code of Regulations, Title 22, Section 64433). The project provides space for this optional system.

The corrosion control chemical system will be located within the proposed new Chemical Building No. 3, located to the west of the existing 600,000 gallon permeate tank at the Water Campus. The proposed building is a one story 1,100 square foot structure with a zinc orthophosphate chemical system room and a separate room for a future fluorosilicic acid chemical system. The zinc orthophosphate system includes a 2,000 gallon tank, metering pump, piping, valves, instruments and accessories, as well as spill containment. The fluorosilicic acid system will not be installed as a part of this project. Site improvements include a concrete chemical unloading area with pre-cast chemical containment system and temporary parking area paved with permeable pavers to meet stormwater quality requirements.

**FINANCIAL IMPACT**

The estimated project costs which includes design, project management, materials, inspection and construction of \$1,493,375 is funded by 2006 Water Bonds (Blending Station #3 Desalter Project No. 066011) and will be transferred to the Chemical Building No. 3 – GREAT Program Project No. 086503 Account No. 601-6584-821-8602. A Special Budget Appropriation in the amount of \$1,493,375 is requested (Attachment No. 3).

Attachment No. 1 - Project Location Map

Attachment No. 2 - Project Cost Estimate

Attachment No. 3 - Special Budget Appropriation

Note: Plans and specifications for PW 08-10 Construction of Chemical Building No. 3 Project are available for review at the City of Oxnard Corporation Yard General Services Department - Building No. 2, 1060 Pacific Avenue after 8:00 a.m. on Monday prior to the City Council Meeting.

# Waste Water Treatment Plant Site Map



## Legend

- addcl
  - ALLEY
  - FWY
  - HWY
  - MINOR
  - PRIMARY
  - RAMP
  - SECONDARY
  - PARCEL\_IMS
  - citylimit
  - Public Facilities
    - CITY FACILITY
    - FIRE STATION
    - HOSPITAL
    - PARK
    - SCHOOL
    - waterbodies
- Oxnard-sp83-03.sid0



Notes: 2009 Cape Sealing Project

This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

**CITY OF OXNARD  
CAPITAL IMPROVEMENT PROJECT ESTIMATE**

Project Title: Chemical Building No. 3 Specification No: PW08-10

Account No: 601-6584-821-8602 Project No. 086503 Project Manager: Mike Muro

	Original Estimate Amount	Revised Estimate Amount	Actual Cost
<b>I. EXTERNAL SERVICES</b>			
A. Architectural/ Engineering (8201)			
1. Preliminary Feasibility			
2. Design or Construction	95,000		
3. Specification/Cost Estimate			
B. Planning/EIR Services (8206)	500		
C. Real Estate Services (8207)			
D. Construction Services (8208)			
1. Surveys			
2. Soils Analysis			
3. Inspection	40,000		
4. Testing	25,000		
5. Atlas Fees			
6. Plans and Records	500		
7. Misc. (postage, reproductions, etc.)	600		
<i>Total External Services</i>	<b>\$ 161,600</b>		
<b>II. INTERNAL SERVICES</b>			
A. Design Engineering (8451)	45,000		
B. Inspection (8451)	16,650		
C. Survey (8451)	6,500		
D. Contract Administration (8451)	15,425		
E. Contract Procurement (8451)*	5,000		
<i>Total Internal Services</i>	<b>\$ 88,575</b>		
<b>III. CONSTRUCTION/ACQUISITION</b>			
<i>Funding for items in this section must be in place before contract is awarded</i>			
A. Land, Easements and Rights-of-Way (8601)			
B. Buildings:			
8602-New	1,110,000		
8603-Major Repair			
C. Improvements other than Buildings			
8604-New			
8605-Major Repair			
D. Machinery/Equipment (8606/8607)			
<i>Total Construction/Acquisition</i>	<b>\$ 1,110,000</b>		
<b>IV. OTHER PROJECT COSTS:</b>			
A. Project Contingencies (8802)	111,000		
B. CIP Indirect Cost (2% of total construction costs)	22,200		
<i>Total Other Costs</i>	<b>\$ 133,200</b>		
<b>Project Total</b>	<b>\$ 1,493,375</b>		
<hr/>			
Total Appropriation	\$ 1,493,375		
Less: Encumbrances & Expenditures			
Balance Available	\$ 1,493,375		

**\*NOTICE**

Approval of this estimate authorizes the transfer of the amount shown in item II-E from the project listed above to Contract Procurement Account No. 101-4501-553-7337 when bid solicitation services begin.

Prepared by: LSB

Date: July 15, 2009

Approved by: Wd

Date: 7/16/09

**CITY OF OXNARD**  
**REQUEST FOR SPECIAL BUDGET APPROPRIATION**

To the City Manager:

July 28, 2009

Request is hereby made for an appropriation of total . . . . .

\$ 1,493,375

Reason for appropriation: To provide for the construction of Chemical Building No. 3

<u>FUND</u>	<u>DESCRIPTION/ACCOUNT</u>	<u>AMOUNT</u>
WATER OPERATING (601)	BLENDING STATION #3 DESALTER 601-6554-821-8604 (Project 066011) Improvements/ Not Building-New	(1,493,375)
WATER OPERATING (601)	CHEMICAL BUILDING NO. 3 GREAT PROGRAM 601-6584-821-8602 (Project 086503) Building-New	1,493,375

Net Estimated Change to Water Operating Fund Balance 0

\_\_\_\_\_  
 Manager

DOES NOT REQUIRE CITY COUNCIL APPROVAL

CHIEF FINANCIAL OFFICER

Disposition \_\_\_\_\_

Approved \_\_\_\_\_

Rejected \_\_\_\_\_

Transfer by Journal Voucher \_\_\_\_\_

\_\_\_\_\_  
 City Manager