

Council Meeting of
March 23, 2010

Honorable Mayor and Members
of the City Council
City Hall
Torrance, California

Members of the Council:

SUBJECT: Public Works – Appropriate \$370,000 to the Water Enterprise Operating Budget and award two purchase orders to furnish chemicals for the Goldsworthy Desalter Facility for a one-year period. Expenditure: Not to exceed \$93,000.00

Ref: Bid # B2010-01

RECOMMENDATION

Recommendation of the Public Works Director that City Council appropriate \$370,000 to the Water Enterprise Operating Budget and award a purchase order to Univar USA Inc. of Kent, WA in an amount not to exceed \$68,000, and to Basic Chemical Solutions LLC of Santa Fe Springs, CA in an amount not to exceed \$25,000 to furnish chemicals for the Goldsworthy Desalter Facility. This will be for a one-year period effective March 24, 2010 through March 23, 2011.

Funding

Funding is available in the Water Enterprise Fund balance, but will be reimbursed by the Water Replenishment District of Southern California.

BACKGROUND

On December 15, 2009, Your Honorable Body approved an Agreement (Council Item 12B) with the Water Replenishment District of Southern California (WRD) to operate and maintain the Goldsworthy Groundwater Desalter located at the City Services Yard Facility. The Agreement is for a five-year period and provides the City with full cost reimbursement for all operational costs. Staff is now requesting a \$370,000 appropriation to cover the following estimated costs related to the operation and maintenance of the desalter for fiscal year 2009-2010:

Salaries	\$60,200
Chemicals	\$160,000
Water Quality	\$36,800
Repair & Maintenance	\$48,000
Other Related Costs	\$65,000
Total:	\$370,000

ANALYSIS

Formal bids were advertised to provide Aqua Ammonia 19%, Sodium Hydroxide 25%, Sodium Hypochlorite 12.5% and Sulfuric Acid 93%. The bid document specified quantities based on an anticipated usage over a period of one year.

The City received four bids and one "No Bid" response at the Bid Opening held on February 11, 2010 as follows:

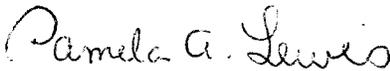
Description	Univar USA Inc. Kent WA	Basic Chemical Solutions, L.L.C Santa Fe Springs, CA	Brenntag Santa Fe Springs, CA	Hill Brothers Chemical Company Brea, CA
Aqua Ammonia 19%	\$4.38 per gal	*\$3.66 per gal	\$4.88 per gal	\$3.79 per gal
Sodium Hydroxide 25%	*\$0.84/ gal	\$1.25 per gal	\$1.05 per gal	No Bid
Sodium Hypochlorite 12.5%	\$0.86 per gal	*\$0.797/gal	\$.98 per gal	No Bid
Sulfuric Acid 93%	*\$0.9827 per gal	\$1.031per gal	\$1.18/gal	No Bid

* Lowest Responsible Bidder

It is the recommendation of the Public Works Director that a one-year purchase order be awarded to Univar USA Inc. of Kent, WA to furnish Sodium Hydroxide 25% and Sulfuric Acid 93% and a one-year purchase order be awarded to Basic Chemical Solutions, LLC, Santa Fe Springs, CA to furnish Aqua Ammonia 19% and Sodium Hypochlorite 12.5% for the Goldsworthy Groundwater Desalter Facility.

Respectfully submitted,

ROBERT J. BESTE
Public Works Director


By Pamela A. Lewis
Senior Administrative Analyst

CONCUR:


Jack van der Linden
Deputy Public Works Director


Robert J. Beste
Public Works Director


LeRoy J. Jackson
City Manager

Attachment: Standard Operating Procedures (Chemical Handling)

Attachment

Standard Operating Procedures

CHEMICAL HANDLING

Protective Equipment

- Two sets each of personal protective gear consisting of a face shield, rubber apron and rubber gloves are stored at both Well #6 and Well #2 sites.
- Protective gear must be worn when performing maintenance procedures, flushing lines, making adjustments or changing over pumps or related equipment. In addition, protective gear must be worn in any other situation that may pose a hazard.
- An approved respirator is stored at both the Well #6 and Well #2 sites. This equipment is to be used when there is the presence of excessive chemical fumes.

Signage and MSDS Information

- All water treatment, storage and operational facilities will be signed appropriately. All personnel are to observe instructions on posted signs.
- MSDS Information Centers will be provided at Well #6 and Well #2, and the Water Department's field operation center at the City Yard. If any substance causes any injury, personnel are to consult the appropriate MSDS data sheet stored in the Center.

Operations and Maintenance

- De-pressure system when making pump changeovers and other major adjustments to prevent possible pressure surge or occurrence of excessive pressure, which could result in accidental discharge of treatment chemicals.
- Inspect the condition of pumps and other equipment on a regular basis to detect any defects, excessive wear or operational problems.
- Do not operate facilities with defective equipment. Have defective equipment either repaired or replaced immediately.
- Inspect the condition of tubing, connections and fittings on a regular basis. Replace worn or defective components with new components. Be certain that all tubing and connections are securely fastened.
- Inspect pumps, lines, connections and other components for the presence of scaling deposits. The buildup of excessive scaling deposits can cause backpressure, which may blow off fittings and result in the discharge of treatment chemicals.

Parts Inventory

- A complete inventory of new spare parts will be kept at Well #6 and Well #2 sites.

- Used parts including tubing, connections, and fittings should not generally be used for repair/replacement work. Any used parts should be labeled as used and separated from new components.

Handling and Storage of Treatment Chemicals

- Personnel are instructed to handle all chemicals with care. Protective gear is to be worn in situations that could result in potential spill of these chemicals.
- Any chemical leakage should be reported immediately. In addition, if the chemical suppliers overflow the containment tanks when filling these tanks, this should also be reported so that this situation can be corrected.

Emergency Shower/Eyewash

- The emergency shower and eyewash should be used immediately if any chemicals are spilled on personnel. This is imperative since the severity of any chemical burn is related to the contact time with the chemical.
- The emergency shower will be fitted with a modesty curtain. Personnel exposed to any chemical spills are instructed to strip down as necessary and use the on-site emergency shower as soon as possible upon exposure to the chemical.

These measures are designed to enhance the safety of water treatment facilities and provide protection for Water Operation Division personnel. All personnel are to adhere to these procedures.

Note: All chemical deliveries are handled by the supplier. Water Operations employees assist the vendor in gaining access to the facilities and then are instructed to go down wind of the chemical storage area until the delivery is completed.