

WEST BASIN MUNICIPAL WATER DISTRICT

JUNE 7, 2001 – Water Resources
JUNE 18, 2001 – Board Meeting
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ACTION CALENDAR

CHEMICAL SUPPLY CONTRACTSSUMMARY:

West Basin uses chemicals at the West Basin Water Recycling Plant (WBWRP), the Chevron Nitrification Plant, Mobil Nitrification/Boiler Feed Plant, and the Carson Regional Water Recycling Plant (CRWRP) to help treat the recycled water. Staff issued "Request for Bids" for six chemicals: carbon dioxide, ferric chloride, lime, sodium bisulfite, sodium hypochlorite, and antiscalant. Bids for all of the chemicals have been received and are described below.

- Carbon Dioxide: One bid was received from Airgas Dry Ice, West Basin's current supplier. The bid is summarized in Table 1. The bid price was \$69 per ton, which is higher than the current price of \$64 per ton.
- Ferric Chloride: One bid was received from Kemiron Pacific, West Basin's current supplier. The bid is summarized in Table 2. The bid price was \$321.55 per ton, which is higher than the current \$295 per ton.
- Lime: One bid was received from Chemical Lime, West Basin's current supplier. The bid is summarized in Table 3. The bid price was \$90.21 per ton, higher than the current \$81.75 per ton.
- Sodium Bisulfite: Two bids were received and are summarized in Table 4. The low bid was from JCI Jones Chemicals. The bid price was \$0.1605 per pound, which is lower than the current price of \$0.195 to \$0.29 per pound.
- Sodium Hypochlorite: Four bids were received and are summarized in Table 5. The low bid was from JCI Jones Chemicals. The bid price was \$0.38 per gallon, which is higher than the current price of \$0.294 per gallon.
- Antiscalant: Five bids were received and are summarized in Table 6. Because antiscalant formulations are proprietary, each manufacturer recommends a dosage for its own antiscalant. The low bid for antiscalants is determined by multiplying the dose by the price per pound, and finally by the amount of water treated during the year. The "calculated bid cost" is shown in the last column of Table 6. The lowest calculated bid cost was from Professional Water Technologies.

The value of the chemical contracts will vary depending on the volume of recycled water delivered and the quality of water from Hyperion.

FISCAL IMPACTS:

Funds are available in the Operations and Maintenance Budget for fiscal year 2001-02.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was reviewed by the Water Resources Committee meeting on June 7, 2001 and was recommended for approval. This item was agendaized to the June 18, 2001 Board meeting as an action item.

RECOMMENDED MOTION:

Authorize the General Manager to enter into agreements with:

1. Airgas Dry Ice to supply and deliver carbon dioxide to the WBWRP for one year at \$69 per ton. The maximum amount of carbon dioxide purchases next year is estimated to be \$130,000.
2. Kemiron Pacific to supply and deliver ferric chloride to the WBWRP for one year at \$321.55 per ton. The maximum amount of ferric chloride purchases next year is estimated to be \$120,000.
3. Chemical Lime to supply and deliver lime to the WBWRP for one year at \$90.21 per ton. The maximum amount of lime purchases next year is estimated to be \$410,000.
4. JCI Jones Chemicals to supply and deliver sodium bisulfite to Chevron Nitrification, Mobil Nitrification, and CRWRP at \$0.1605 per pound. The maximum amount of sodium bisulfite purchases next year is estimated to be \$40,000.
5. JCI Jones Chemicals to supply and deliver sodium hypochlorite to WBWRP, Chevron Nitrification, Mobil Nitrification, and CRWRP at \$0.38 per gallon. The maximum amount of sodium hypochlorite purchases next year is estimated to be \$470,000.
6. Professional Water Technologies to supply and deliver antiscalant to WBWRP, Mobil Boiler Feed Plant, and CRWRP at \$0.65 per pound. The maximum amount of antiscalant purchases next year is estimated to be \$110,000.

LIST OF EXHIBITS:

Exhibit "A" - Table 1 through Table 6

Table 1

Summary of Carbon Dioxide Bids

Company	Delivered to	Price
Airgas Dry Ice	WBWRP	\$69.00/ton
<u>Current Contractor</u>		
Airgas Dry Ice	WBWRP	\$64.00/ton

Table 2

Summary of Ferric Chloride Bids

Company	Delivered to	Price
Kemiron Pacific	WBWRP	\$321.55/ton
<u>Current Contractor</u>		
Kemiron Pacific	WBWRP	\$295/ton

Table 3

Summary of Lime Bids

Company	Delivered to	Price
Chemical Lime	WBWRP	\$90.21/ton
<u>Current Contractor</u>		
Chemical Lime	WBWRP	\$81.75/ton

Table 4

Summary of Sodium Bisulfite Bids

Company	Delivered to	Price
JCI Jones Chemicals	Chevron Nitrification	\$0.1605/pound
	Mobil Nitrification	\$0.1605/pound
	CRWRP	\$0.1605/pound
Basic Chemical Solutions	Chevron Nitrification	\$0.21/pound
	Mobil Nitrification	\$0.21/pound
	CRWRP	\$0.30/pound
Current Contractor		
Basic Chemical Solutions	Chevron Nitrification	\$0.195/pound
	Mobil Nitrification	\$0.195/pound
	CRWRP	\$0.29/pound

Table 5

Summary of Sodium Hypochlorite Bids

Company	Delivered to	Price
JCI Jones Chemicals	WBWRP Chevron Nitrification Mobil Nitrification CRWRP	\$0.38/gallon
Pioneer Americas	WBWRP Chevron Nitrification Mobil Nitrification CRWRP	\$0.391/gallon
Western States Chemical	WBWRP Chevron Nitrification Mobil Nitrification CRWRP	\$0.46/gallon
Basic Chemical Solutions	WBWRP Chevron Nitrification Mobil Nitrification CRWRP	\$0.59/gallon
Current Contractor		
Pioneer Americas	WBWRP Chevron Nitrification Mobil Nitrification CRWRP	\$0.294/gallon

Table 6

Summary of Antiscalant Bids

Company	Delivered to	Price/lb.	Dose (mg/L)	Calculated Bid Cost
Professional Water Technologies	WBWRP T1&2	\$0.65	1.8	\$87,571
	WBWRP T3-5	\$0.65	2.0	
	Mobil Boiler Feed/CRWRP	\$0.65	2.0	
King Lee Technologies	WBWRP T1&2	\$0.98	1.6	\$128,695
	WBWRP T3-5	\$0.98	2.0	
	Mobil Boiler Feed/CRWRP	\$0.98	2.0	
Ondeo Nalco	WBWRP T1&2	\$1.12	1.75 – 2.0	\$136,952
	WBWRP T3-5	\$1.12	1.75	
	Mobil Boiler Feed/CRWRP	\$1.12	1.75	
BetzDearborn	WBWRP T1&2	\$1.08	2.0	\$157,965
	WBWRP T3-5	\$1.08	2.0	
	Mobil Boiler Feed/CRWRP	\$1.10	2.25	
Avista Technologies	WBWRP T1&2	\$1.58	2.0	\$350,057
	WBWRP T3-5	\$2.53	2.25	
	Mobil Boiler Feed/CRWRP	\$2.53	2.25	
Current Contractor				
Ondeo Nalco	WBWRP T1&2	\$1.12	1.0	\$80,354.23
	WBWRP T3-5	\$1.12	1.5	
	Mobil Boiler Feed/CRWRP	\$1.12	1.5	