

AGENDA ITEM



CITY OF LODI
COUNCIL COMMUNICATION

AGENDA TITLE: Approve Task Order with West Yost & Associates for Study and Recommendation for Full Implementation of Woodbridge Irrigation District Surface Water Supply and Appropriate Funds (\$30,000)

MEETING DATE: April 20, 2005

PREPARED BY: Public Works Director

RECOMMENDED ACTION: That the City Council approve a task order with West Yost and Associates for study and recommendation for full implementation of the Woodbridge Irrigation District surface water supply and appropriate funds as shown below.

BACKGROUND INFORMATION: On September 21, 2004, and based on the report *Surface Water Supply Options* by Mark Williamson of Schlumberger Water Services, Council was provided a broad view of available alternatives for potential Lodi water supplies including alternatives for implementing the 6,000 acre-feet per year (AFY) surface water supply acquired from Woodbridge Irrigation District (WID).

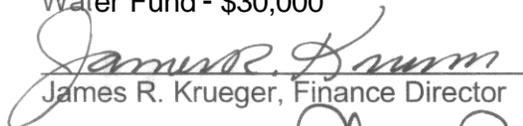
Of the alternatives discussed, groundwater recharge and/or constructing a surface water treatment plant appear to be the two most reasonable and timely alternatives for implementing the existing 6,000 AFY WID supply for mitigating the existing groundwater overdraft conditions and meeting future demands associated with Lodi's projected growth.

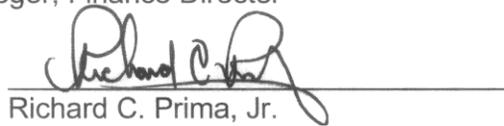
As the next step, staff requested the attached proposal from West Yost & Associates to further study both alternatives, including interim plans for raw water delivery to parks and open space using portions of the WID supply. The interim facilities for irrigating parks and open space would eventually convey recycled water. As part of this effort, staff intends to request that WID grant a three-year extension to our agreement.

Completion of the report is scheduled for May 2005. At that time, staff will bring forth the recommendation(s) and request Council approve moving forward with the recommended alternative.

FISCAL IMPACT: Implementing either alternative will result in additional costs to operate the City's water system. These costs will be presented as part of this work.

FUNDING AVAILABLE: Water Fund - \$30,000


James R. Krueger, Finance Director


Richard C. Prima, Jr.
Public Works Director

Prepared by Charlie Swimiey, Senior Civil Engineer
RCP/CES/pmf
Attachment

cc: Stephen Schwabauer, City Attorney
Paul Fernandez, Senior Traffic Engineer
Sharon Welch, Senior Civil Engineer

F. Waiiy Sandeiin, City Engineer
Wes Fujitani, Senior Civil Engineer
Frank Beeler, Assistant Water/Wastewater Superintendent

APPROVED: 
Blair King, City Manager



Consulting Engineers

April 7, 2005

Mr. Wally Sandelin
City Engineer
City of Lodi
P.O. Box 3006
Lodi CA 95241-1910

RECEIVED

APR - 8 2005



SUBJECT: Proposal for Consultant Services for Full Surface Water Implementation

Dear Mr. Sandelin:

Thank you for the opportunity to submit this proposal. Under this proposal, West Yost & Associates (WYA) will provide services as requested by the City of Lodi (City) to analyze two alternative methods of utilizing the City's WID supply: groundwater recharge, or a water treatment plant.

Tasks:

1. Develop local groundwater recharge alternative (facilities layout, sizing, single year operating schedule, capital and O&M costs, cost/AF, staffing).
2. Develop regional groundwater recharge alternative (facilities layout, sizing, single year operating schedule, capital and O&M costs, cost/AF, staffing).
3. Develop water treatment plant alternative (layout, sizing, single year operating schedule, capital and O&M costs, offset well capital and operating costs, cost/AF, staffing).
4. Alternative comparison (develop criteria, evaluate each alternative against the criteria, identify recommended alternative).
5. Develop interim plan for raw water delivery to parks and open space. Facilities would eventually be converted to recycled water. Include facilities layout, sizing, single year operating schedule, capital and O&M costs, cost/AF, and staffing.
6. Technical Memorandum of results (approximately 20 pages).
7. Project management and meetings. Assume 2 meetings will be required, plus attendance at May 2005 Council meeting.

Assumptions based on March 24, 2005 meeting:

1. Final Technical Memorandum will be presented to Council in May 2005; draft is due 1st week in May.
2. Both options will be developed to full capacity (6,000 AFA) as soon as possible, so existing water demands will be the basis for analysis.
3. WTP will be located along WID South Main Canal between Sargent and Turner Rd.

Mr. Wally Sandelin

April 7, 2005

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4. Recharge facility for Task 1 will be located where it will provide direct benefit to Lodi wells. Recharge facility for Task 2 will be located where it will provide recharge benefit to the region. Recharge will be by spreading basins, because injection wells would require treating the water first.
5. WID water is available March 1 through October 15 each year, with monthly diversions as requested by the City. The City's 18,000 AF (unused from previous years) could potentially be used for a number of years to serve either alternative between October 16 and February 28.
6. Treated surface water will be used to reduce groundwater pumping (in lieu recharge). For this alternative, savings at existing wells will be due to reduced power costs, where those costs would have been borne by the City. Additional savings may be realized in the future due to delayed need for additional wells, but because we are looking at near-term implementation, those savings will not be included in this analysis.
7. All alternatives will be base load facilities, operating at a constant rate during their operating periods (800 AF/mo). Wells will provide peaking supply in both alternatives.
8. City staff will provide recommendations of required distribution system improvements for the three alternatives. Costs of those improvements will be included in the analysis.
9. City staff will provide recommendations of pipeline alignments for interim facilities (Task 5).
10. City staff will provide a recommendation of recharge percolation rate based on measurements in City detention basins C and G.
11. Land cost is \$200,000 per acre.

WYA will provide the services identified above on a time and materials basis in accordance with our standard company charge rates (attached). We will not exceed a total project cost of \$27,200 without prior authorization.

We understand that you need the final TM to present to Council in May 2005. I will manage the effort, Richard Hubel and Chris Ewers will assist, with Jim Yost providing quality control and Principal oversight. We are eager to begin this effort immediately. Please call me if you have any questions (916) 792-6285.

Sincerely,

WEST YOST & ASSOCIATES


Dave Peterson
Project Manager

DAP:mta

attachment



WEST YOST & ASSOCIATES

2005 Billing Rate Schedule

(Effective January 8, 2005 through December 31, 2005)*

Position	Labor Charges, dollars per hour
Principal	175
Vice President	165
Engineering Manager	155
Principal Engineer/Scientist	143
Senior Engineer/Scientist	128
Associate Engineer/Scientist	114
GIS Analyst	114
Engineer II/Scientist II	103
Engineer I/Scientist I	90
Construction Manager II	118
Construction Manager I	108
Resident Inspector III	101
Resident Inspector II	90
Resident Inspector I	78
Sr. Designer/Sr. CAD Operator	87
Designer/CAD Operator	78
Technical Specialist II	74
Technical Specialist I	65
Engineering Aide	50
Administrative IV	60
Administrative III	53
Administrative II	48
Administrative I	45

Outside Services such as vendor reproductions, prints, shipping, and major WYA reproduction efforts, as well as Engineering Supplies, Travel, etc. will be billed at actual cost plus 15%.

Direct Costs including general computers, system charges, telephone, fax, routine in-house copies/prints, postage, miscellaneous supplies, and other incidental project expenses will be billed at 4% of WYA labor charges.

Mileage will be billed at \$0.41 per mile.

Subconsultants will be billed at actual cost plus 10%.

Computers are billed at \$25 per hour for specialty models and AutoCAD.

A Finance Charge of 1.5 percent per month (an Annual Rate of 18 percent) on the unpaid balance will be added to invoice amounts if not paid within 45 days from the date of the invoice.

Billing rates apply to all computers and equipment, whether owned or rented by WYA, and to all employment categories including regular full-time, part-time, temporary, and contract employees as defined in WYA's Employee Handbook.

*This schedule will be updated annually



Consulting Engineers

WEST YOST & ASSOCIATES
2005 Billing Rate Schedule
(Cont'd...)

(Effective January 8, 2005 through December 31, 2005)*

SURVEYING AND EQUIPMENT CHARGES

Position	Labor Charges, dollars per hour
Survey Crew, 2-Person	180
GPS, 1-Person	173
GPS, 2-Person	216
GPS, 3-Person	260

Equipment	Billing Rate, dollars per day	Billing Rate, dollars per week
DO Meter	15	67
pH Meter	5	21
Automatic Sampler	108	541
Transducer/Data Logger	36	165
Hydrant Pressure Gage	10	41
Hydrant Pressure Recorder (HPR)	—	165
Hydrant Wrench	5	26
Pitot Diffuser	26	108
Well Sounder	26	108
Ultrasonic Flow Meter	—	216
Velocity Meter	10	—
Water Quality Multimeter	155	773
Thickness Gage	—	57

*This schedule will be updated annually