



CITY OF LODI

COUNCIL COMMUNICATION

AGENDA TITLE: Adopt Resolution Authorizing the City Manager to Accept a Proposal for Professional Services to Prepare and Implement a Groundwater Monitoring Workplan at White Slough Water Pollution Control Facility (WSWPCF); and Appropriate Funds in the Amount of \$84,800

MEETING DATE: April 4, 2001

PREPARED BY: Public Works Director

RECOMMENDED ACTION: That the City Council adopt resolution authorizing the City Manager to accept a proposal for professional services to prepare and implement a groundwater monitoring workplan at WSWPCF, and appropriate funds in the amount of \$84,800.

BACKGROUND INFORMATION: The City's wastewater discharge permit requires that a groundwater evaluation be performed to evaluate the impacts of the current land application practices and determine the adequacy of the existing monitoring wells. Saracino-Kirby, Inc. was retained to perform this work. In their October 2000 report, they concluded our current monitoring data is not sufficient to determine if any impacts have occurred and that our existing monitoring program needs expanding to make this evaluation.

The attached proposal from Saracino-Kirby details a scope of work for preparation and implementation of a groundwater monitoring workplan. The workplan will expand our current monitoring program to provide the additional data needed to determine if any impacts have occurred, and also includes the installation of seven new monitoring wells. Following completion of the workplan, two years of monitoring will be performed and the estimated impacts will be determined.

The scope of work is divided between a proposal to complete the workplan, and additional services to purchase, install, and monitor data loggers to record well information. The cost of the workplan is \$60,400 and the additional service is \$24,400, for a total of \$84,800.

FUNDING: The money for this project will be coming from the Wastewater Fund.

Project Estimate: \$84,800
Budgeted: Wastewater Capital Reserve

Funding Available: Richard C. Prima, Jr.
Vicky McAthie, Finance Director

Richard C. Prima, Jr.
Public Works Director

RCP/DK/mg

Attachment

cc: Randy Hays, City Attorney
Fran E. Forkas, Water/Wastewater Superintendent
Del Kerlin, Assistant Wastewater Treatment Superintendent
Glenn A. McPherson, Saracino-Kirby, Inc.

APPROVED: _____

H. Dixon Flynn - City Manager

SARACINO - KIRBY
A Schlumberger Company

555 Capitol Mall, Ste. 1550
Sacramento, CA 95814

Phone (916) 329-9199
Fax (916) 329-9191

March 8, 2001

Mr. Richard C. Prima, Jr.
Director of Public Works
City of Lodi
P.O. Box 3006
Lodi, CA 95241-1910

Re: Proposal for consulting services

Dear Richard,

The California Regional Water Quality Control Board (Regional Board) has reviewed the City's White Slough Water Pollution Control Facility Groundwater Evaluation report, dated October 2000. In their letter dated November 21, 2000, the Regional Board requested that a groundwater monitoring workplan be prepared and submitted to them by January 15, 2001. Saracino-Kirby worked with City staff and the workplan was submitted on January 12, 2001. The Regional Board issued a letter dated January 24, 2001 approving the groundwater monitoring workplan. The Regional Board anticipates that the City of Lodi will have the new monitoring wells installed by the end of April 2001.

Saracino-Kirby, Inc. is pleased to present this proposal to support the City of Lodi with the preparation of the groundwater monitoring workplan and the implementation of the recommendations included in the October 2000 Groundwater Evaluation report.

We propose the following work tasks (some of these tasks have been partially or fully completed):

1. Prepare the Groundwater Monitoring Workplan.
2. Finalize, with City assistance, the locations for seven (7) new monitoring wells at the approximate locations shown in Figure 23 of the Groundwater Evaluation report and labeled P1, P2, P3, P4, P6, P7, & P8. Monitoring well P5 has been installed as part of the City's Percolation Study. An additional monitoring well that has been installed as part of the City's Percolation Study will also be used for long-term monitoring. This well is located west of P5 and just east of Interstate 5.

3. Research property ownership and obtain access agreements for wells that are located on private property.
4. Apply for encroachment permits for wells that are on non-City-owned public property.
5. Research the presence of existing utilities at the final well locations.
6. Install seven (7) new monitoring wells. Western Strata Exploration, Inc. (Westex) will install the new monitoring wells.
7. Perform well logging and construction inspection during the installation of the seven (7) new wells.
8. Determine the top elevations of the seven (7) existing wells, the two (2) wells installed as part of the Percolation Study, and the seven (7) new monitoring wells (total of 16) on a common datum (current San Joaquin County datum). Baumbach & Piazza, Inc. will perform the level survey. Determine the approximate horizontal well locations using a Global Positioning System (GPS) unit. The accuracy of the GPS unit is 15 meters (+/-).
9. Develop a groundwater sampling and measuring protocol.
10. Develop a recording protocol for noting conditions of canals near monitoring wells at time of sampling.
11. Develop a recording protocol for documenting the monthly summaries of wastewater and biosolids application by area.
12. Prepare a draft report documenting work tasks 5 through 9. Provide five (5) copies of the draft. Meet with City staff to discuss review comments. Prepare a final report and provide ten (10) copies.

We anticipate that the City will perform the following tasks:

1. Assist with decisions regarding final locations for the seven (7) new monitoring wells.
2. Provide access to the existing monitoring wells.
3. Assist with obtaining access agreements or encroachment permits for the wells that are not located on City-owned property.

Mr. Richard C. Prima, Jr.
March 8, 2001
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Our estimated fee to complete the above scope of work is \$60,400. This fee is based on an estimated number of staff hours to complete the listed work tasks. We would bill on a time and materials basis in accordance with our attached fee schedule for the work accomplished.

We also have investigated the price of pressure transducer/dataloggers to measure and record the water levels in the wells. Each datalogger can store 6,000 readings before downloading is required. The dataloggers are programmable to record from one reading per second to one reading per hour. Data sheets on the dataloggers are attached.

We would be pleased to provide the following additional services:

1. Purchase and install sixteen (16) pressure transducer/dataloggers.

The estimated fee to purchase, install, and test the dataloggers is \$17,500. The dataloggers are assembled when ordered. Delivery time is approximately three weeks.

2. Maintenance of the pressure transducer/dataloggers, downloading of data, and preparation of data reports.

The estimated fee to download the data from all sixteen dataloggers, convert the digital data into an appropriate tabular format, and transmit the data to the City is \$2,300 per data collection event.

We suggest that for the first quarter, the dataloggers be set to record every 30 minutes and the data be downloaded monthly. These three data sets will provide an indication of how frequently the groundwater levels fluctuate. If after the first quarter it is clear that a less frequent recording interval is more appropriate, the interval can be changed. The monthly downloading schedule for the first quarter will provide a good opportunity to build confidence in the reliability of the dataloggers. The estimated fee for downloading of data and preparation of data reports for the first quarter is \$6,900 (3 data collection events @ \$2,300 per event).

Therefore, the total estimated fee to purchase, install, test, and monitor 16 dataloggers monthly for the first quarter is \$24,400.

After the first quarter, it may be appropriate to reduce the frequency of data downloading events to quarterly. Quarterly downloads that coincide with quality sampling would be the most convenient since the dataloggers will have to be removed and reinstalled to accommodate the sampling.

We look forward to helping the City meet its groundwater monitoring objectives.

Mr. Richard C. Prima, Jr.
March 8, 2001
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Please call me if you have any questions regarding this proposal.

Sincerely,



Glenn A. McPherson, PE
Senior Project Manager

Attachment

1. Fee Schedule for Professional Services
2. Data sheets on pressure transducer/datalogger

cc: Fran E. Forkas, Water/Wastewater Superintendent

Acceptance of Proposal:

City of Lodi

H. Dixon Flynn, City Manager

Date

RESOLUTION NO. 2001-84

A RESOLUTION OF THE LODI CITY COUNCIL AUTHORIZING THE CITY
MANAGER TO ACCEPT A PROPOSAL FOR PROFESSIONAL SERVICES
TO PREPARE AND IMPLEMENT A GROUNDWATER MONITORING
WORKPLAN AT WHITE SLOUGH WATER POLLUTION CONTROL
FACILITY, FROM SARACINO-KIRBY, INC., AND
APPROPRIATE FUNDS FOR THIS PROJECT

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WHEREAS, the City's wastewater discharge permit requires that a groundwater evaluation be performed to evaluate the impacts of the current land application practices and determine the adequacy of the existing monitoring wells; and

WHEREAS, Saracino-Kirby, Inc., was retained to perform this work, and in their October 2000 report, they concluded our current monitoring data is not sufficient to determine if any impacts have occurred and that our existing monitoring program needs expanding to make this evaluation; and

WHEREAS, a proposal has been received from Saracino-Kirby, Inc., detailing a scope of work for preparation and implementation of a groundwater monitoring workplan; and

WHEREAS, the workplan will expand our current monitoring program to provide the additional data needed to determine if any impacts have occurred, and also includes the installation of seven new monitoring wells; and

WHEREAS, following completion of the workplan, two years of monitoring will be performed and the estimated impacts will be determined; and

WHEREAS, the scope of work is divided between a proposal to complete the workplan and additional services to purchase, install, and monitor data loggers to record well information. The cost of the workplan is \$60,400.00 and the additional service is \$24,400.00, for a total amount of \$84,800.00.

NOW, THEREFORE, BE IT RESOLVED, that the Lodi City Council does hereby authorize the City Manager to accept a proposal for professional services to prepare and implement a Groundwater Monitoring Workplan at White Slough Water Pollution Control Facility, from Saracino-Kirby, Inc., and

BE IT FURTHER RESOLVED, that funds in the amount of \$84,800.00 be appropriated for this project.

Dated: April 4, 2001

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I hereby certify that Resolution No. 2001-84 was passed and adopted by the Lodi City Council in a regular meeting held April 4, 2001 by the following vote:

AYES: COUNCIL MEMBERS – Hitchcock, Land and Mayor Nakanishi

NOES: COUNCIL MEMBERS – None

ABSENT: COUNCIL MEMBERS – Howard and Pennino

ABSTAIN: COUNCIL MEMBERS – None



SUSAN J. BLACKSTON
City Clerk

CITY COUNCIL

ALAN S. NAKANISHI, Mayor
PHILLIP A. PENNINO
Mayor Pro Tempore
SUSAN HITCHCOCK
EMILY HOWARD
KEITH LAND

CITY OF LODI
PUBLIC WORKS DEPARTMENT

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H. DIXON FLYNN
City Manager
SUSAN J. BLACKSTON
City Clerk
RANDALL A. HAYS
City Attorney
RICHARD C. PRIMA, JR.
Public Works Director

March 30, 2001

Mr. Glenn A. McPherson
Saracino-Kirby, Inc.
555 Capitol Mall, Suite 1550
Sacramento, CA 95814

SUBJECT: Resolution Authorizing the City Manager to Accept a Proposal for Professional Services to Prepare and Implement a Groundwater Monitoring Workplan at White Slough Water Pollution Control Facility

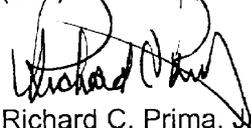
Enclosed is a copy of background information on an item on the City Council agenda of Wednesday, April 4, 2001. The meeting will be held at 7 p.m. in the City Council Chamber, Carnegie Forum, 305 West Pine Street.

This item is on the consent calendar and is usually not discussed unless a Council Member requests discussion. The public is given an opportunity to address items on the consent calendar at the appropriate time.

If you wish to write to the City Council, please address your letter to City Council, City of Lodi, P. O. Box 3006, Lodi, California, 95241-1910. Be sure to allow time for the mail. Or, you may hand-deliver the letter to City Hall, 221 West Pine Street.

If you wish to address the Council at the Council Meeting, be sure to fill out a speaker's card (available at the Carnegie Forum immediately prior to the start of the meeting) and give it to the City Clerk. If you have any questions about communicating with the Council, please contact Susan Blackston, City Clerk, at (209) 333-6702.

If you have any questions about the item itself, please call Fran Forkas at (209) 333-6740, extension 2430.



Richard C. Prima, Jr.
Public Works Director

RCP/pkh

Enclosure

cc: City Clerk