



CITY OF LODI

COUNCIL COMMUNICATION

AGENDA TITLE: Adopt Resolution Authorizing the City Manager to Execute a Professional Services Agreement with West Yost & Associates for Engineering Services to Prepare a Predesign of Phase I Improvements to the White Slough Water Pollution Control Facility; and Appropriate Funds in the Amount of \$450,000 for the Project

MEETING DATE: July 18, 2001

PREPARED BY: Public Works Director

RECOMMENDED ACTION: That the City Council adopt a resolution authorizing the City Manager to execute a professional services agreement with West Yost & Associates for engineering services to prepare a predesign of Phase I improvements to the White Slough Water Pollution Control Facility; and appropriate funds in the amount of \$450,000 for the project.

BACKGROUND INFORMATION: This predesign project will assist the City in determining the most cost-effective approach to implementing the most immediately-needed improvements, as identified in the Master Plan and outlined in the attached Executive Summary, to Lodi's White Slough Water Pollution Control Facility (WSWPCF). West Yost & Associates has been working on several wastewater-related projects over the past two years, which in part includes the WSWPCF Master Plan completed in January 2001 with the assistance of a citizens advisory group, a percolation study (currently being finalized), assisted in negotiations with the Central Valley Regional Water Quality Control Board, and several other engineering studies that were needed prior to this predesign Phase. City staff has developed a confidence level in West Yost & Associates and their engineering abilities, their understanding of the WSWPCF, and their consistency in timely completion of projects.

This first Phase of the project addresses improvements to only the existing secondary facilities that are necessary regardless of which discharge method is selected. This does not address the complete project as discussed in the White Slough Master Plan. Major Phase II discharge options are still being researched, i.e., total land disposal versus a new discharge to Bishop Cut.

The Phase I design work needs to proceed immediately. In less than 12 months, an equal-size Phase II design will most likely come to Council for consideration. The estimated cost of the West Yost & Associates predesign Phase I is \$360,000, with an additional \$53,000 to cover cost overruns to the Master Plan due to additional needs in that document, and a contingency of \$37,000, for a total of \$450,000 for Phase I.

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

Project Estimate: \$450,000

Budgeted: Wastewater Capital Reserve

Funding Available: Vicky McAthie
Vicky McAthie, Finance Director

Richard C. Prima, Jr.
Public Works Director

Prepared by Fran E. Forkas, Water/Wastewater Superintendent

RCP/FEF/DK/dsg

Attachment

cc: Randy Hays, City Attorney
Fran E. Forkas, Water/Wastewater Superintendent
Del Kerlin, Assistant Wastewater Treatment Superintendent
Bruce West, West Yost & Associates

APPROVED:

H. Dixon Flynn -- City Manager

EXECUTIVE SUMMARY

PREDESIGN SERVICES

The predesign services scope is directed towards determining the most cost-effective approach to providing improvements to the City's White Slough Water Pollution Control Facility that were identified in the Master Plan for immediate implementation. These include:

- Influent screening system improvements and headworks area rehabilitation,
- Influent pumping system improvements,
- Secondary treatment system improvements,
- Elimination of the use of hazardous gases for effluent disinfection,
- Expansion of the plant's sludge stabilization system,
- Improvements and expansion to the Operations Building, and
- Upgrading of the plant's supervisory control and data acquisition system.

The predesign services will result in a document which:

- Identifies the specific approach and criteria to be used in providing the needed improvements and/or facilities,
- Provides an updated estimate of the costs that will be incurred to construct, operate and maintain the additional facilities,
- Identifies the location of treatment facilities that will be required in the future for further capacity expansion and possible higher levels of treatment,
- Establishes criteria to be utilized in the final design stage for the preparation of contract documents and design of the facilities included in the project,
- Identifies the staffing needs of the completed facility, and
- Refines the estimated schedule for final design and construction and develop an optimal contracting strategy that will enable the City to bring the project on line in a manner that will be compatible with its needs and objectives.

TECHNICAL SUPPORT SERVICES

Additional technical support services are proposed to be provided by West Yost & Associates and its subconsultants to meet additional project requirements that are outside of the scope of traditionally defined project predesign services. These services include:

1. City Council presentations associated with the project.
2. Assistance with discussions with regulatory authorities.
3. Assistance in obtaining a State Revolving Fund loan to finance the project construction.
4. Assistance with Value Engineering review of the project, including review and evaluation of the report prepared by the Value Engineering consultant retained by the City.
5. Assistance in updating the City's revenue program.
6. Providing technical information regarding the project to the City for the purpose of preparing additional environmental analyses that may be required in order to implement the project (e.g. population supported by the project, energy requirements, facility location, etc.)
7. Miscellaneous services that may be required during the course of the study which are not yet identified.

Many of these tasks (Nos. 3 through 6, above) are associated with meeting administrative requirements of the State Revolving Fund loan program and can be eliminated or reduced in the event the City elects to finance the project through other means.

Associated work that is not included in this proposal that will need to be provided by others includes:

- Environmental review and documentation
- Revenue Program updating
- Value Engineering review

Additional engineering services that will need to be provided to fully implement this project are not included in this proposal. These services include: preparation of final plans, specifications, bidding, and contract documents; services during bidding; construction management and inspection; and startup services. These services are typically included at a later date when the project has become better defined.

PROJECT SCHEDULE

The schedule for completion of the predesign, final design and construction of the facilities within the scope of this study is as shown in the Table 1. The duration of the detailed design, bidding and contract award, construction and startup tasks will be reviewed during the course of the predesign effort and revised accordingly, if necessary.

PROJECT TEAM

Pre-design services will be provided by West Yost & Associates and a team of the following subconsultants: Brown and Caldwell; Kleinfelder, Inc.; and Corpro Companies. WYA may utilize other subconsultants than those listed should the need arise. West Yost & Associates will be responsible for the overall management of the pre-design work, alternatives analyses, report preparation, and for management of consultants. Brown and Caldwell will provide additional technical expertise in the process requirements covered by this project as well as structural, electrical and instrumentation design services and cost estimating. Kleinfelder, Inc. will conduct the geotechnical investigations and prepare a report containing recommendations that will be used for final structural design. Corpro Companies will conduct a corrosion potential investigation to develop design guidelines to be used for the protection of steel and other metals from corrosion.

West Yost & Associates and its subconsultants will work closely with the City's public works department staff to provide continuous input to the study.

Table 1. Project Milestone Schedule

Task or Milestone	Duration, months	Estimated Completion Date
Pre-design		
Initiate Study	NA	May 2001
Issue Draft Pre-design Report	8	January 2002
Complete Value Engineering Study	1	February 2002
Issue Final Pre-design Report	1	March 2002
Detailed Design	14	May 2003
Bidding and Contract Award	4	September 2003
Construction	24	September 2005
Startup	2	November 2005

ESTIMATED FEE

The work described in this proposal will be completed by West Yost & Associates and its subconsultants on a time and materials basis at standard company charge rates. The budgets established for each component of the work is summarized in Table 2. The total budget would not be exceeded without prior authorization from the City.

Table 2. Estimated Fee

Task Description	Estimated Fee, dollars		
	West Yost & Associates	Subconsultants ⁽¹⁾	Total
PREDESIGN SERVICES			
Review & Refine Process Design Criteria	17,756		17,756
Tertiary Facilities Site Selection Analysis	8,130		8,130
Preliminary Plant Schematic	5,518		5,518
Process Selection Studies	76,524	11,778	88,302
Process Descriptions & Design Calculations	17,028	2,794	19,822
Operations Building Improvements	2,530	2,610	5,140
Hydraulic Profile & Mass Balances	8,104	7,499	15,603
Scaled Site Plan	6,498		6,498
Geotechnical Investigation	592	7,619	8,211
Corrosion Study	754	7,245	7,999
Design Document Standards	3,854		3,854
Design Standards	7,482	8,209	15,691
Preliminary Construction Sequence & Schedule	1,818	5,779	7,597
Contracting Strategy	2,360		2,360
Construction Cost Estimate	3,394	7,583	10,977
Draft Pre-design Report	10,644	12,278	22,922
Final Pre-design Report	3,664	7,214	10,878
Project Management	11,024	4,870	15,894
Technical Review Meetings	13,276	10,903	24,179
Deliverables	2,408		2,408
Pre-design Services Subtotal	203,358	96,381	299,739
TECHNICAL SUPPORT SERVICES			
City Council Presentations	9,188		9,188
Regulatory Assistance	5,900		5,900
State Revolving Loan Fund Assistance	6,936		6,936
Value Engineering Review Assistance	4,348	6,612	10,960
Revenue Program Update Assistance	3,730		3,730
Environmental Review Assistance	3,654		3,654
Miscellaneous Services	14,510	4,348	18,858
Technical Support Services Subtotal	48,266	10,960	59,226
COMBINED TOTALS	251,624	107,341	358,965

(1) Includes 10 percent markup.

RESOLUTION NO. 2001-180

A RESOLUTION OF THE LODI CITY COUNCIL AUTHORIZING THE CITY
MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH
WEST YOST & ASSOCIATES FOR ENGINEERING SERVICES TO PREPARE
A PREDESIGN OF PHASE I IMPROVEMENTS TO THE WHITE SLOUGH
WATER POLLUTION CONTROL FACILITY, AND FURTHER APPROPRIATING
FUNDS FOR THIS PREDESIGN WORK

WHEREAS, this predesign project will assist the City in determining the most cost-effective approach to implementing the most immediately-needed improvements, as identified in the Master Plan and outlined in the Executive Summary to Lodi's White Slough Water Pollution Control Facility; and

WHEREAS, the first Phase of the project addresses improvements to only the existing secondary facilities that are necessary regardless of which discharge method is selected. This does not address the complete project as discussed in the White Slough Master Plan, as discharge options are still to be researched; and

WHEREAS, the Phase I Design work needs to proceed immediately, as in less than 12 months, an equal-size Phase II design will most likely come to Council for consideration; and

WHEREAS, the estimated cost of the West Yost & Associates Predesign Phase I is \$360,000.00, with an additional \$53,000.00 to cover cost overruns to the Master Plan due to additional needs in that document, and a contingency of \$37,000.00 for a total of \$450,000.00 for Phase I.

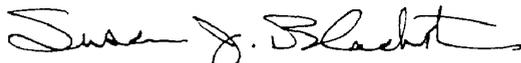
NOW, THEREFORE, BE IT RESOLVED, that the Lodi City Council does hereby authorize the City Manager to execute a Professional Services Agreement with West Yost & Associates for Engineering Services to prepare a Predesign of Phase I Improvements to the White Slough Water Pollution Control Facility; and

BE IT FURTHER RESOLVED, that funds in the amount of \$450,000.00 be appropriated from the Wastewater Fund for this project.

Dated: July 18, 2001

I hereby certify that Resolution No. 2001-180 was passed and adopted by the Lodi City Council in a regular meeting held July 18, 2001 by the following vote:

- AYES: COUNCIL MEMBERS – Hitchcock, Howard, Land, Pennino and Mayor Nakanishi
- NOES: COUNCIL MEMBERS – None
- ABSENT: COUNCIL MEMBERS – None
- ABSTAIN: COUNCIL MEMBERS – None


SUSAN J. BLACKSTON
City Clerk