

THE BOARD OF SUPERVISORS OF THE COUNTY OF STANISLAUS
ACTION AGENDA SUMMARY

DEPT: Chief Executive Office

BOARD AGENDA # *B-5

Urgent Routine

AGENDA DATE July 21, 2009

CEO Concurs with Recommendation YES NO
(Information Attached)

4/5 Vote Required YES NO

SUBJECT:

Approval to Issue a Request for Proposal for Design and Engineering Services for the Repairs and Upgrades for the Stanislaus County Honor Farm Waste Water Treatment Facility

STAFF RECOMMENDATIONS:

1. Authorize the Chief Executive Office to issue a request for proposals (RFP) for design and engineering services for the repairs and upgrades for the Stanislaus County Honor Farm Waste Water Treatment Facility.
2. Authorize the Project Manager to issue a notice inviting proposals on July 22, 2009 for design and engineering services for the repairs and upgrades for the Stanislaus County Honor Farm Waste Water Treatment Facility, and for the Project Manager to modify the proposal date if necessary.

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FISCAL IMPACT:

The Stanislaus County Honor Farm became fully operational in 1967 and is situated on the San Joaquin River near Grayson. The Stanislaus County Honor Farm is a minimum-security facility for sentenced and qualifying unsentenced adult male inmates. The Honor Farm contains a Waste Water Treatment Facility (HFWWTF) located just east of the main entrance to the Honor Farm.

The HFWWTF is operating under a permit with the State of California Regional Water Quality Control
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BOARD ACTION AS FOLLOWS:

No. 2009-497

On motion of Supervisor Monteith, Seconded by Supervisor Chiesa
and approved by the following vote,

Ayes: Supervisors: O'Brien, Chiesa, Grover, Monteith, and Chairman DeMartini

Noes: Supervisors: None

Excused or Absent: Supervisors: None

Abstaining: Supervisor: None

1) X Approved as recommended

2) _____ Denied

3) _____ Approved as amended

4) _____ Other:

MOTION:

ATTEST:


ELIZABETH A. KING, Assistant Clerk

File No.

STAFF RECOMMENDATIONS: Continued

3. Authorize the Project Manager to accept and open proposals on August 26, 2009, immediately after 4:00 p.m., and return to the Board to recommend an award.

FISCAL IMPACT: Continued

Board (RWQCB) and processes all of the raw sewage for the Stanislaus County Honor Farm. Currently, urgent repairs are needed at the HFWWTF.

At this time, the Chief Executive Office is requesting Board approval to issue a request for proposals (RFP) for design and engineering services for the repairs and upgrades for the HFWWTF. This will provide a full range of options, from repairs to replacement be evaluated by a qualified engineer to provide solutions to the issues. The design engineer will validate the findings and recommendations outlined in the Stanislaus County Honor Farm Wastewater Facility Evaluation Final Assessment Report and will provide a comprehensive design solution that will address those deficiencies identified in the Final Evaluation. It is estimated the design work should not exceed \$65,000 for the scope of work recommended. Prior to beginning the construction phase, the Chief Executive Office will return to the Board for approval of the plans and specifications for the repairs and upgrades for the HFWWTF. Recommendations for final design and actual cost estimates will be returned to the Board of Supervisors prior to seeking bids for the work.

The total project budget for the repairs and site improvements at the Stanislaus County Honor Farm is estimated at this time not to exceed \$362,791. Of the total amount, \$235,000 was allocated in the 2008-2009 the Chief Executive Office Plant Acquisition budget for the deferred maintenance of county facilities, and \$127,791 was allocated in the 2009-2010 Chief Executive Office Plant Acquisition budget for the deferred maintenance of county facilities. Once bids have been received and the final construction cost is known, staff will return to the Board to approve the final project funding plan. The expected project duration is 10 months, with completion expected in Spring 2010. This project will be funded out of existing appropriations in the Chief Executive Office Plant Acquisition budget previously approved by the Board and presently we expect there will be no additional impact to the General Fund. Final cost exposure will be better known at the completion of the design.

The major objectives of the project are to ensure the HFWWTF operates within biological oxygen demand BOD-5 permissible limits established by the RWQCB, and to extend the service life of the HFWWTF up to an additional 10 years.

DISCUSSION:

The Stanislaus County Honor Farm is located at 8224 West Grayson Road, in Modesto California. The HFWWTF is located just east of the main entrance to the Honor Farm. The HFWWTF was originally planned for operation beginning in the mid 1950s.

The HFWWTF is operating under a permit with the State of California Regional Water Quality Control Board (RWQCB) and processes all of the raw sewage for the Stanislaus County Honor Farm. Currently, urgent repairs are needed HFWWTF.

Previously, the Stanislaus County Sheriff's Department entered into a professional services agreement with Jared Steeley Wastewater/Water Consulting and Operations to identify and evaluate deficiencies associated with the WWTP, its collection, holding and discharge facilities. Pursuant to the scope of work (SOW), the evaluation would also recommend options to mitigate the deficiencies identified at the HFWWTF.

On August 31, 2008, Jared Steeley Wastewater/Water Consulting and Operations submitted a Final Assessment Report which identified the following major deficiencies and repair recommendations at the HFWWTF:

Major Finding	Repair Recommendation
Unsafe Electrical System	Replace electrical distribution systems used in the HFWWTF. Replace electrical conduits, wiring, switches and controls. Add additional site lighting for safety after hours
Accumulation of Sludge in Aeration Pond	Remove sludge that has built up on the bottom of the aeration pond. Identify best method to remove and dispose of sludge design engineering phase
Erosion of Aeration Pond Banks	Repair the erosion of the aeration pond banks and line banks
Mechanical System Upgrades	Replace aerator and mixer tie-down points on banks that are exposed and near failure due to bank erosion. Replace existing aerators and mixers
Out of Safety Compliance	Install signage around the perimeter of site and aeration pond. Install life jackets along the perimeter fence as required by OSHA and the RWQCB

With the Board's approval, the project will be separated into two phases. During Phase I the design engineer will validate the findings and recommendations outlined in the Stanislaus County Honor Farm Wastewater Facility Evaluation Final Assessment Report and will provide a comprehensive design solution that will address those deficiencies. The RFP will include an option for the design engineer to also submit a bid alternate price for construction management expert services to assist in the delivery of this project. It is anticipated as this is a highly specialized area of which requires technical expertise.

It is estimated the design work should not exceed \$37,000 for the scope of work recommended. Prior to beginning the construction phase, the Chief Executive Office

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will return to the Board for approval of the plans and specifications for the repairs and upgrades for the HFWWTF. Once bids have been received and the final construction cost is known, staff will return to the Board to approve the final project funding plan.

Prior to beginning the Phase II, the construction phase, the Chief Executive Office will return to the Board for approval of the plans and specifications for the repairs and upgrades for the HFWWTF. Phase II of the project will include integrating a comprehensive design solution that will address deficiencies outlined in the Stanislaus County Honor Farm Wastewater Facility Evaluation Final Assessment Report.

Phase II will also include transferring flow from the existing aeration pond to the temporary aeration pond in order to keep the plant operational, conducting a request for proposal (RFP) and issuing a contract to remove, dry and transport "sludge" from the aeration pond currently in service to an approved disposal site as required by RWQCB regulations. Also included is the repair of the erosion issue on the primary aeration pond levies and any upgrades that may be required by the RWQCB. Additionally, Phase II will include the purchase of new aeration pumps that are equipped with dissolved oxygen (DO) meters that will shut off the aerators when optimal DO levels are reached in the treatment process and will reduce energy costs by not operating twenty-four hours per day. The new aerators will be designed to increase the anaerobic and facultative bacteria digestion of the solids waste in the aeration pond which will ensure the BOD 5 levels are in compliance with codes and regulations.

Phase II will also include completing the necessary and critical repairs to the electrical control system that provides power to the pumps, mixers and aerators at the HFWWTF. The total cost is estimated not to exceed \$15,000 and would be completed by the General Services Agency Facilities Maintenance Division using en force labor. The current electrical connections to the aerators require upgrades.

POLICY ISSUES:

The Board should consider if approval of the project supports the Board's stated priorities of *Efficient delivery of public services* and *A safe community*.

STAFFING IMPACT:

Existing Chief Executive Office Capital Projects and General Services Agency staff will assist with project management and coordination of the project in partnership with the Sheriff's Honor Farm staff.