



Date: February 22, 2018

To: Engineering Committee
Dean Efstathiou, Chair
Tom Campbell
Ed Colley
William Cooper
Gary Martin

From: Brian J. Folsom *BJF*
Chief Engineer

The **Engineering Committee** is scheduled to meet on **Thursday, March 1, 2018 at 5:30 PM at Rio Vista Water Treatment Plant** located at 27234 Bouquet Canyon Road, Santa Clarita, CA 91350 in the Training Room.

MEETING AGENDA

1. Public Comments
2. * Recommend Approval of Work Authorizations for Woodward & Curran for Final Design of Recycled Water Pipelines and for Kennedy/Jenks Consultants for Final Design of the Recycled Water Tank for the Recycled Water Vista Canyon (Phase 2B) Project
3. * Capital Improvements Projects Construction Status Report
4. * Committee Planning Calendar
5. General Report on Engineering Services Section Activities
6. Adjournment

- * Indicates attachments
- ◆ To be distributed

NOTICES:

Any person may make a request for a disability-related modification or accommodation needed for that person to be able to participate in the public meeting by telephoning (661) 297-1600, or writing to Santa Clarita Valley Water Agency at 27234 Bouquet Canyon Road, Santa Clarita, CA 91350. Requests must specify the nature of the disability and the type of accommodation requested. A telephone number or other contact information should be included so that Agency staff may discuss appropriate arrangements. Persons requesting a disability-related accommodation should make the request with adequate time before the meeting for the Agency to provide the requested accommodation.

Pursuant to Government Code Section 54957.5, non-exempt public records that relate to open session agenda items and are distributed to a majority of the Board less than seventy-two (72) hours prior to the meeting will be available for public inspection at the Santa Clarita Valley Water Agency, located at 27234 Bouquet Canyon Road, Santa Clarita, California 91350, during regular business hours. When practical, these public records will also be made available on the Agency's Internet Website, accessible at <http://www.yourscvwater.com>.

Posted on February 22, 2018.





COMMITTEE MEMORANDUM

DATE: February 22, 2018

TO: Engineering Committee

FROM: Brian J. Folsom, P.E. *BJF*
Chief Engineer

SUBJECT: Recommend Approval of Work Authorizations for Woodward & Curran for Final Design of Recycled Water Pipelines and for Kennedy/Jenks Consultants for Final Design of the Recycled Water Tank for the Recycled Water Vista Canyon (Phase 2B) Project

SUMMARY

Staff recommends approval of work authorizations to Woodard & Curran for design of recycled pipelines and to Kennedy/Jenks Consultants for design of a recycled water storage tank for the Recycled Water Vista Canyon (Phase 2B) Project.

DISCUSSION

The draft Recycled Water Master Plan (RWMP) sets forth a plan to expand the existing recycled water system in the Santa Clarita Valley to offset potable water demands. The existing recycled water system, referred to as Phase 1, provides approximately 450 acre-feet per year (AFY) of recycled water to a golf course and median landscapes in the Valencia area. Phase 2 includes four separate phases (Phases 2A, 2B, 2C and 2D) that will expand the recycled water system to the east, west and south portions of the Santa Clarita Valley. The Vista Canyon (Phase 2B) Project (Project) will provide recycled water to the east side of the Santa Clarita Valley Water Agency's (Agency) service area by using surplus recycled water that will be available from an onsite water reclamation plant (Water Factory) being constructed by the developer of the Vista Canyon development. The Water Factory will generate approximately 415 AFY. The Vista Canyon development is estimated to use approximately 137 AFY. The surplus of 278 AFY will be available to SCV Water to serve existing irrigation customers in the Fair Oaks community.

A Preliminary Design Report (PDR) for the Project was completed by Kennedy/Jenks Consultants in October 2015. The Board of Directors adopted a Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program for the Project on November 20, 2017. On November 6, 2017, Request for Proposals (RFPs) were issued to four of the Agency's on-call engineering firms based on their qualifications and experience. RFPs were issued to Encompass Consultant Group, Jensen Design and Survey, Kennedy/Jenks and Woodward & Curran (formerly RMC Environment). The RFPs were issued for two parts of the Project:

- 1) Final design of the Project's recycled water pipelines: this part of the Project includes approximately 1.25 miles of pipelines to convey recycled water from the Vista Canyon Water Factory to customers through 6-inch and 12-inch pipelines. The pipeline alignment will include city streets, residential neighborhoods, and a bridge crossing over the Metrolink Railroad. The design scope includes utility research and investigations, utility potholing, a bridge-crossing evaluation, and preparation of plans, specifications and construction cost estimates.

- 2) Final design of the Project's recycled water storage tank: this part of the Project includes a tank with a capacity of approximately 500,000 gallons and related ancillary facilities. The developer of the Fair Oaks tract provided SCV Water with a rough-graded tank site. The design scope includes a preliminary design to finalize the tank size and site layout, geotechnical investigations, utility potholing, and preparation of plans, specifications and construction cost estimates.

On December 20, 2017, two proposals were received in response to each RFP as follows:

Proposals for Final Design of Recycled Water Pipelines

Woodard & Curran	\$ 170,933
Jensen Design & Survey/ECG	\$ 251,399

Proposals for Final Design of Recycled Water Tank

Kennedy/Jenks Consultants	\$ 161,160
Woodward & Curran	\$ 232,451

Based on a review of the proposals, staff recommends that Woodward & Curran provide final design for the Project's recycled water pipelines. Woodward & Curran is currently preparing final designs for two other recycled water pipeline projects for SCV Water, the South End (Phase 2C) and the West Ranch (Phase 2D) Recycled Water Projects. Woodward & Curran would provide consistency in the design approach and save staff time in coordinating efforts between projects.

Based on a review of the proposals, staff recommends that Kennedy/Jenks Consultants provide final design for the Project's recycled water storage tank. Kennedy/Jenks Consultants previously prepared the design for the Agency's existing 1.5 MG recycled tank (Phase 1), and the PDR for the Vista Canyon (Phase 2B) Recycled Water Project system. They also worked with Agency staff to prepare the Agency's draft RWMP, so they are familiar with the Agency's recycled water program and standards.

FINANCIAL CONSIDERATIONS

Woodward & Curran's budget for final design of the recycled water pipelines is \$170,933. Kennedy/Jenks Consultant's budget for final design of the recycled water tank is \$161,160. In both cases, work would be performed on a time and materials basis. Design of both parts of the Project is funded in the Agency's FY 2017/18 Budget for the Recycled Water Program Phase 2B – Vista Canyon Project, and there are adequate funds remaining for this work. Approximately one-third of the design costs will be reimbursed from Proposition 84 grant funds. The Project's total estimated cost is \$6,525,000. As of November 30, 2017, project expenditures are \$248,681.

RECOMMENDATION

That the Engineering Committee recommends that the Board of Directors authorize the General Manager to execute work authorizations with Woodward & Curran for an amount not to exceed \$170,933 for final design of the Vista Canyon (Phase 2B) recycled water pipelines, and with Kennedy/Jenks Consultants for an amount not to exceed \$161,160 for final design of the Vista Canyon (Phase 2B) recycled water tank.

TBP

**Santa Clarita Valley Water Agency
Capital Improvement Projects (CIP) Construction Monthly Status Report
As of February 20, 2018**

Project	Contractor	Original Contract Amount	Change Orders to Date	% Change Orders	Current Contract Amount	Scheduled Completion	Estimated % of Work Completed	Status
SPTF Pressure Control Modifications	GSE Construction	\$134,000	\$0	0%	\$134,000	February 23, 2018	95%	Work nearly complete. Contractor completing punchlist items.
Foothill Feeder Turnout	GSE Construction	\$2,691,300	\$0	0%	\$2,691,300	March 28, 2018	53%	Concrete has been poured and cured for walls and pads in both vaults. Pipelines have been placed within the vaults. Meter has been installed.
RV-2 Modifications	Environmental Construction	\$2,089,672	\$12,995	0.62%	\$2,102,667	May 9, 2018	35%	Site grading is underway. Electrical conduit installation is complete. Installation of ladders and sump pump is underway.
ESIPS Pipeline Improvements	Pacific Hydrotech	\$3,083,100	\$0	0%	\$3,083,100	May 15, 2018	45%	Completed slab pours. Wall rebar placement is complete and ready for concrete pour. Bypass pipe installation is underway.
ESFP Clearwell / CT Improvements	Clark Brothers	\$5,623,745	\$12,509.35	0.22%	\$5,636,254.35	August 6, 2018	60%	13 wall pours have been completed with one remaining. Installation of inlet and outlet piping is complete. Pipe pressure test is complete. Chlorination of piping is underway.
Pipeline Improvements for Newhall Ranch Road Bridge Widening	Staats Construction	\$24,591	\$0	0%	\$24,591	TBD	0%	Relocation of two fire hydrants and installation of irrigation service. Construction plans to relocate two additional fire hydrants will be prepared.
Well E-17 and Water Improvements	Staats Construction, Padilla Electric, and General Pump	\$571,734	\$0	0%	\$571,734	TBD	50%	Well construction has been completed. Majority of the underground pipe has been installed. Will be installing the remaining portions of the pipe and the electrical components.

**Engineering Committee
Planning Calendar
FY 2017/18**

ITEM NO. 4

	Item	Feb 20 Board	March 1 Comm	April 3 Board	April 5 Comm	May 1 Board	May 3 Comm	June 5 Board	June 7 Comm	July 3 Board
1	Monthly Committee Planning Calendar		P		P		P		P	
2	CIP Construction Status Report		P		P		P		P	
3	Third Party Funded Agreements Quarterly Report						P			
4	CIP Construction Update/Overview	C								
5	Revise Purchasing Policy for 3rd Party Funded Projects	C								
6	Recommend approval of Work Authorizations for TBD for final design of the Recycled Water Vista Canyon (Phase 2B) Pipeline and Tank		P	P						
7	Preliminary FY 2018/19 Capital Projects Budget Discussion				P					
8	Recommend approval of a Work Authorization for TBD for final design of the Recycled Water Central Park (Phase 2A) Project				P	P				
9	Recycled Water Program Presentation					P				
10	Review Proposed FY 2018/19 Action Items						P			
11	Review Proposed FY 2018/19 Capital Projects						P	P		
12	Recommend approval of a Work Authorization for TBD for Engineering Services for VOC CERCLA process						P	P		
13	Follow-up Final Review Proposed FY 2018/19 Minor and Major Capital Projects, if needed								P	P

C = Completed Item
P = Planned Item