

Board Meeting Agenda

*** Revised ***

February 23, 2017 at 10:00 a.m.
156 S. Broadway, Turlock, CA
2nd Floor – Yosemite Conference Room

Chair Gary Soiseth	Vice Chair Chris Vierra	Director Ken Lane	Director Amy Bublak
Interim General Manager Michael Brinton	Board Secretary Tish Foley		Interim General Counsel Phaedra A. Norton

NOTICE REGARDING NON-ENGLISH SPEAKERS: The Stanislaus Regional Water Authority (SRWA) meetings are conducted in English and translation to other languages is not provided. Please make arrangements for an interpreter if necessary.

EQUAL ACCESS POLICY: If you have a disability which affects your access to public facilities or services, contact the Board Secretary. The Board is committed to taking all reasonable measures to provide access to its facilities and services. Please allow sufficient time for the Board to process and respond to your request.

NOTICE: Pursuant to California Government Code Section 54954.3, any member of the public may directly address the Board on any item appearing on the agenda, including Consent Calendar and Scheduled items, before or during the Board's consideration of the item.

AGENDA PACKETS: Prior to the Stanislaus Regional Water Authority Board meeting, a complete Agenda Packet is available for review on the SRWA's website at www.stanrwa.org and in the Board Secretary's Office at 156 S. Broadway, Suite 270, Turlock, during normal business hours. Materials related to an item on this Agenda submitted to the Board after distribution of the Agenda Packet are also available for public inspection in the Board Secretary's Office. Such documents may be available on the SRWA's website subject to staff's ability to post the documents before the meeting.

1. **A. CALL TO ORDER**
- B. SALUTE TO THE FLAG**
2. **RECOGNITIONS, APPOINTMENTS, ANNOUNCEMENTS & PRESENTATIONS:** None
3. **A. SPECIAL BRIEFINGS:** SED Status Update
- B. STAFF UPDATES**
 1. Interim General Manager Updates (*Brinton*)
 2. Finance Director Report (*Lorenzi*)
- C. CONSULTANT UPDATES:**
 1. West Yost Associates will provide the Board with a project status update. (*Nakano*)
 2. Horizon Water and Environment will provide the Board with a verbal report on environmental issues associated with the Project. (*Stevenson*)
- D. PUBLIC PARTICIPATION:** This time is set aside for members of the public to directly address the Board on any item of interest to the public that is within the subject matter jurisdiction of the SRWA and on any item on the agenda, including Consent Calendar items. You will be allowed five (5) minutes for your comments. If you wish to speak regarding an item on the agenda, you may be asked to defer your remarks until the Board addresses the matter. No action or discussion may be undertaken on any item not appearing on the posted agenda, except that the Board may refer the matter to staff or request it be placed on a future agenda.
4. **DECLARATION OF CONFLICTS OF INTEREST AND DISQUALIFICATIONS**

5. CONSENT CALENDAR

Information concerning the consent items listed hereinbelow has been forwarded to each Board member prior to this meeting for study. Unless the Chair, a Board member or member of the audience has questions concerning the Consent Calendar, the items are approved at one time by the Board. The action taken by the Board in approving the consent items is set forth in the explanation of the individual items.

A. *Motion:* Accepting minutes of Regular Meeting of January 26, 2017

6. PUBLIC HEARINGS: None.

Challenges in court to any of the items listed below, may be limited to only those issues raised at the public hearing described in this notice, or in written correspondence delivered to the Board at, or prior to, the public hearing.

7. SCHEDULED MATTERS

A. Receive update on the Water Quality Sampling Program (*West Yost Program Management Team*)

Recommended Action: None – Information Only

B. Receive update on the Design of the Wet Well (*West Yost Program Management Team*)

Recommended Action: None – Information Only

8. MATTERS TOO LATE FOR THE AGENDA: The Brown Act generally prohibits any action or discussion of items not on the posted agenda. However, there are three specific situations in which a legislative body can act on an item not on the agenda:

- 1) When a majority decides there is an "emergency situation" (as defined for emergency meetings).
- 2) When two-thirds of the members present (or all members if less than two-thirds are present) determine there is a need for immediate action and the need to take action "came to the attention of the local agency subsequent to the agenda being posted." This exception requires a degree of urgency. Further, an item cannot be considered under this provision if the legislative body or the staff knew about the need to take immediate action before the agenda was posted. A "new" need does not arise because staff forgot to put an item on the agenda or because an applicant missed a deadline.
- 3) When an item appeared on the agenda of and was continued from a meeting held not more than five days earlier. A legitimate immediate need can be acted upon even though not on the posted agenda by following a two-step process. First, make two determinations: (a) that there is an immediate need to take action, and (b) that the need arose after the posting of the agenda. The matter is then "placed on the agenda." Second, discuss and act on the added agenda item.

9. BOARD ITEMS FOR FUTURE CONSIDERATION

10. BOARD COMMENTS: Board members may provide a brief report on notable topics of interest. The Brown Act does not allow discussion or action by the legislative body.

11. NEXT MEETING DATE: March 23, 2017 – Regular Meeting.

12. CLOSED SESSION: None.

13. ADJOURNMENT

To: SRWA Board

From: Michael Brinton, Interim General Manager

Subject: Interim General Manager Report

The members of the Technical Advisory Committee (TAC) have continued to meet with West Yost Associates and their sub-consultants on various items in preparation of the design of the raw water supply infrastructure, water treatment facility, treated water transmission mains and local distribution systems. The items covered since the last SRWA Board meeting includes the following:

- Finalized and submitted December Monthly Status Report
- Coordinated with Gualco regarding SRWA proposed legislation
- Continued laboratory analysis and bench-scale testing of raw water samples, including samples collected during high river flows (due to TID releases and high rainfall runoff)
- Continued preparation of 50% design drawings and technical specifications for the Wet Well
- Refined wet well access road alignment to minimize impact to elderberry shrubs
- Set up task orders for right of way and survey subconsultants
- Completed refined cost estimate for the raw water facilities and treated water transmission mains, and discussed at TAC
- Completed initial Ceres and Turlock preliminary analysis of the potential average impact to monthly water bills with and without the proposed Project
- Horizon is preparing permit applications for state agencies
- Finalizing NOP, compiling mailing list and notice letter
- Solicited TID data on historical and 2017 Don Pedro releases
- Provided Project status update to Mr. Gary Nazareno
- Sent letters regarding this project to the two groups listed by the Tribal Cultural Resources Consultation people.

Mr. Nakano will provide a more in depth review of these items. I will be happy to answer any questions.

January 26, 2017 at 10:00 a.m.
156 S. Broadway, Turlock, CA
2nd Floor – Yosemite Community Room

DRAFT Minutes
Regular Meeting
SRWA Board

1. **A. CALL TO ORDER:** Chair Soiseth called the meeting to order at 10:17 a.m.
PRESENT: Director Lane, Vice Chair Vierra, Chair Soiseth
ABSENT: Director Bublak
 - B. SALUTE TO THE FLAG**
2. **PRESENTATIONS, RECOGNITIONS, ANNOUNCEMENTS & APPOINTMENTS:** None
3. **A. SPECIAL BRIEFINGS:** SED Status Update. Interim General Manager stated there is no information to update at this time.
 - B. STAFF UPDATES:**
 1. Interim General Manager Mike Brinton provided an update of items discussed at recent Technical Advisory Committee (TAC) meetings, including: submittal of the SRF General Application package; discussions with Division of Financial Assistance Project Manager for SRWA's SRF application process; development of the wet well structural model and continued preparation of 50% design drawings; and finalization of the Environmental Notice of Preparation for Wet Well Project which will publish when AB52 compliance is ready.
 2. Marie Lorenzi reported provided information on revenue and expenditures for Fiscal Year 2016-17 through January 25, 2017.
 - C. CONSULTANT UPDATES:**
 1. West Yost Associates Gerry Nakano provided a project status update including the following: refining cost estimates, continuing evaluation of potential impact on average monthly water bills, input received from TAC on Preliminary Wet Well Design Technical Memo, workshop held with TAC to discuss initial results from the bench-scale testing, and Horizon finalizing Notice of Preparation for the EIR.
 - D. PUBLIC PARTICIPATION:** None
4. **DECLARATION OF CONFLICTS OF INTEREST AND DISQUALIFICATIONS:** None
5. **CONSENT CALENDAR:**

Action: Motion by Director Lane, seconded by Vice Chair Vierra, to adopt the consent calendar and approve the minutes of the Regular Meeting of January 12, 2017. Motion carried 3/1 by the following vote:

Director Lane	Director Bublak	Vice Chair Vierra	Chair Soiseth
Yes	Absent	Yes	Yes

6. PUBLIC HEARINGS: None

7. SCHEDULED MATTERS:

- A. West Yost Associates Gerry Nakano presented the report on the request to accept the Technical Memorandum dated January 18, 2017, and concur with the recommendation to proceed with limited scope professional land surveying and right-of-way appraisal and acquisition services required for the construction, operation and maintenance of the raw water portion of the Surface Water Supply Project pumping and conveyance pipelines.

Discussion: Limited land surveying services are necessary for pre-design work related to the Wet Well and Raw Water Pipeline to establish existing rights-of-way, provide topographic mapping for layout of raw water pipeline facilities, and prepare plat maps and legal descriptions necessary for obtaining easements. GDR Engineering from Ceres is recommended to perform these services. Limited ROW acquisition services, such as topographic mapping and preparation of plat maps and legal descriptions for project easements, are necessary because there can be a long lead time and this will minimize project delays. Associated Right of Way Services of Pleasant Hill is recommended to perform these services. West Yost Associates will provide the coordination between surveyor and ROW acquisition consultants, providing easement locations, reviewing title reports, maps, legal descriptions, appraisals, and attending meetings with critical stakeholders.

Chair Soiseth opened public participation. There being no public response, Chair Soiseth closed public participation.

Action: Motion by Vice Chair Vierra, seconded by Director Lane, to accept the Technical Memorandum dated January 18, 2017, and concur with the recommendation to proceed with limited scope professional land surveying and right-of-way appraisal and acquisition services required for the construction, operation and maintenance of the raw water portion of the Surface Water Supply Project pumping and conveyance pipelines. Motion carried 3/1 by the following vote:

Director Lane	Director Bublak	Vice Chair Vierra	Chair Soiseth
Yes	Absent	Yes	Yes

- B. Interim General Manager Michael Brinton presented the request to approve Amendment No. 3 to the Agreement for Special Services with West Yost Associates for Limited Land Surveying and Right-of-Way Services Required to Support Design and Construction of Raw Water Pumping Facilities and Raw Water Pipeline and appropriate \$177,206 to account 950-53-522.43060_012 "Contract Services–Program Management Services" to be funded via equal contributions from SRWA participating agencies.

Discussion: None

Chair Soiseth opened public participation. There being no public response, Chair Soiseth closed public participation.

Action: Motion by Director Lane, seconded by Vice Chair Vierra, to approve Amendment No. 3 to the Agreement for Special Services with West Yost Associates for Limited Land Surveying and Right-of-Way Services Required to Support Design

and Construction of Raw Water Pumping Facilities and Raw Water Pipeline. Motion carried 3/1 by the following vote:

Director Lane	Director Bublak	Vice Chair Vierra	Chair Soiseth
Yes	Absent	Yes	Yes

Action: **Resolution 2017-002** appropriating \$177,206 to account 950-53-522.43060_012 “Contract Services-Program Management Services” to be funded via equal contributions from SRWA participating agencies was introduced by Director Lane, seconded by Vice Chair Vierra, and carried 3/1 by the following vote:

Director Lane	Director Bublak	Vice Chair Vierra	Chair Soiseth
Yes	Absent	Yes	Yes

- 8. **MATTERS TOO LATE FOR THE AGENDA:** None
- 9. **BOARD ITEMS FOR FUTURE CONSIDERATION:** None
- 10. **BOARD COMMENTS:** None
- 11. **NEXT MEETING DATE:** February 23, 2017 – Regular Meeting
- 12. **CLOSED SESSION:** None
- 13. **ADJOURNMENT:** Motion by Director Lane, seconded by Vice Chair Vierra, to adjourn at 10:28 a.m. Motion carried 3/1.

RESPECTFULLY SUBMITTED

DRAFT

Tish Foley, Board Secretary

From: West Yost Program Management Team

Prepared by: Andy Smith, West Yost Associates

1. ACTION RECOMMENDED:

Receive update on the Water Quality Sampling Program

Motion: None – Information Only

2. DISCUSSION OF ISSUE:

As previously discussed with the Board, to obtain a Drinking Water Permit for SRWA's proposed new treated surface water supply system, the Division of Drinking Water (DDW) requires the preparation of a source water quality analysis. This analysis requires that a series of raw water samples from a location specific to the Project's intake location (i.e., the infiltration gallery) be collected and analyzed. A Source Water Characterization Sampling Plan for the SRWA Surface Water Supply Project (Sampling Plan) was prepared and approved by DDW in July 2016. In addition to the parameters defined in the Sampling Plan, sampling and analysis of several parameters not required by DDW are being completed to provide valuable information concerning the types and expected performance of treatment processes being considered.

To further evaluate and refine the available treatment process alternatives that remain under consideration, a variety of bench-scale tests are being completed in accordance with the Board's previous approval. These activities include jar testing, ozone demand testing, and manganese removal testing. The results of these tests will yield information that would not otherwise be available from the analysis of raw water samples and will assist in making better informed decisions regarding available treatment process alternatives.

Source water quality sampling began on October 31, 2016. A total of eight sampling events have occurred to date. Although a wide range of parameters have been analyzed, there have been noteworthy results from measurements of several key parameters critical to the selection of a treatment train, including turbidity and total organic carbon (TOC). Prior to January 2017, the water quality testing results for turbidity and TOC were generally low, and offered support to the possibility of utilizing a direct filtration process, without concerns about production capacity impacts if turbidity and/or TOC increased slightly (discussed further below).

However, since January 2017, heavy flows in the Tuolumne River have coincided with degraded raw water quality, primarily significantly increased turbidity and TOC. The treatment process implications of these increased levels are either:

1. The need for enhanced coagulation which typically results in the inclusion of a flocculation/sedimentation treatment process, or
2. Reduced and/or interrupted treatment capacity during future periods of degraded source water quality.

Although a direct filtration plant has the benefit of decreasing the capital cost of the treatment facility, the process is limited in its ability to reduce TOC and remove settleable solids, (due to the inherent limitation in the amount of coagulant that may be added to the raw water prior to filtration). The impact of a period of wet weather events and/or high releases from Don Pedro Reservoir, similar to those observed throughout January and February 2017 would be reduced and/or interrupted ability to treat surface water until water quality (primarily TOC) was back within specific ranges. These ranges and the potential reduced capacity impacts are being evaluated and will be presented to the Board when this data becomes available. The ongoing water quality testing and results will continue to influence the evaluation of treatment alternatives. Because of the high flows in the Tuolumne River below Don Pedro, 2017 is shaping up to be a very important case study and will provide invaluable data for ongoing/future water treatment plant design efforts.

Bench scale testing began on November 28, 2016 and has yielded useful results regarding process feasibility (e.g., enhanced coagulation and disinfection) and parameters used to set design criteria (e.g., coagulant dose, ozone demand, and manganese removal). The information derived from these bench-scale tests will inform process sizing, chemical selection and dosages, and other facilities needed at the water treatment plant. Additional tests will be completed to identify if there are seasonal trends that may further influence the design.

3. **FISCAL IMPACT / BUDGET AMENDMENT:** N/A
4. **INTERIM GENERAL MANAGER'S COMMENTS:** Concurs with the information contained in the report.
5. **ENVIRONMENTAL DETERMINATION:** N/A
6. **ALTERNATIVES:** N/A

From: West Yost Program Management Team

Prepared by: Andy Smith, West Yost Associates

1. ACTION RECOMMENDED:

Receive update on the Design of the Wet Well

Motion: None – Information Only

2. DISCUSSION OF ISSUE:

To ensure the proper function and to maximize the capacity of the already-installed infiltration gallery beneath the bed of the Tuolumne River (River), and to gain a better understanding of the quality of water extracted from the infiltration gallery, the Board previously authorized West Yost Associates to complete the design the Wet Well Project. The wet well will be located adjacent to the River and will house the future raw water pumps that will ultimately extract water from the River via the infiltration gallery piping, and deliver it to the water treatment plant. In the interim, the wet well will provide access to the infiltration gallery piping and facilitate the development and testing of the gallery piping, and will subsequently allow collection of representative raw water quality samples.

The design of the Wet Well is progressing on schedule and, pending associated, on-going environmental regulatory/permitting work (discussed further below), is scheduled for completion in April 2017. A wet well predesign technical memorandum (TM) was prepared for review and input by the Technical Advisory Committee (TAC). The main purpose of the predesign TM was to solicit concurrence from the TAC on the design approach for the wet well. The following three notable recommendations were agreed to by the TAC and are the basis for the wet well design:

- The use of an “open” wet well configuration. This configuration was selected because of its relatively small footprint, good access for pump/wet well inspection and maintenance, and the ability to accommodate hydraulic features to ensure proper removal of settleable solids, if necessary.
- Based on the existing subsurface conditions at the site, a robust ground stabilization approach (e.g., jet grouting or soil freezing) will be necessary to prevent groundwater from migrating laterally and entering the excavation, and to facilitate a safe, successful construction effort.

- Development and testing of the infiltration gallery, as detailed in the Infiltration Gallery Development and Testing Plan (prepared by SPF Engineering and included as an attachment to the TM), should be included as part of the wet well construction contract, to leverage the mobilization and expertise of the selected wet well general contractor, and to also use this equipment, if needed, to construct and/or install any necessary temporary facilities to develop and test the infiltration gallery.

The design has progressed to a fifty percent complete level and is currently under review by the TAC. The design is being prepared in close coordination with Horizon Water and Environment, LLC (Horizon) as it relates to California Environmental Quality Act documentation and accompanying environmental and regulatory permits. Horizon has identified a large number of mature elderberry shrubs in the vicinity of the wet well. These shrubs are closely regulated as they provide habitat for the Valley Elderberry Longhorn Beetle, a listed threatened species that is protected under the Endangered Species Act. It has been determined that avoidance of all of the elderberry shrubs is not possible, and that some of the shrubs will be impacted by construction of the wet well. Whether or not such impacts will constitute removal (or “take”) of any shrubs is being evaluated by Horizon, and requires consultation with the California Department of Fish and Wildlife. If impacts are deemed significant enough, a Habitat Conservation Plan (HCP) may be required. Development and approval of an HCP is a more involved and time consuming effort than was previously envisioned. Horizon reports that the regulatory path forward and the schedule implications associated with elderberry shrub impacts will be better known in March 2017.

Current estimates anticipate a best case construction start date of August/September 2017. There is a chance, however, that this schedule could be impacted by the need to develop a HCP. Although this construction start date is later than the anticipated June 27, 2017 Notice To Proceed date shown in the draft baseline schedule previously presented to the Board, the current best case schedule appears favorable for avoiding nesting birds that are known to frequent the area. As more information becomes available the Board will be notified.

3. **FISCAL IMPACT / BUDGET AMENDMENT:** N/A
4. **INTERIM GENERAL MANAGER’S COMMENTS:** Concurs with the information contained in the report.
5. **ENVIRONMENTAL DETERMINATION:** N/A
6. **ALTERNATIVES:** N/A