



**SPECIAL NOTICE REGARDING
CORONAVIRUS DISEASE 2019 (COVID-19)
AND PARTICIPATION IN PUBLIC MEETINGS**

On March 4, 2020, Governor Newsom declared a State of Emergency resulting from the threat of COVID-19. Governor Newsom issued Executive Order N-25-20 (3-12-20) and Executive Order N-29-20 (3-17-20) which temporarily suspend portions of the Brown Act relative to conducting public meetings. Subsequent thereto, Governor Newsom issued Executive Order N-33-20 (3-19-20) ordering all individuals to stay at home or at their place of residence. Accordingly, it has been determined that all Board and Workshop meetings of the San Bernardino Valley Municipal Water District will be held pursuant to the Brown Act and will be conducted via teleconference. There will be no public access to the meeting venue.

**BOARD OF DIRECTORS WORKSHOP - RESOURCES
THURSDAY, JANUARY 7, 2021 – 2:00 P.M.**

PUBLIC PARTICIPATION

Public participation is welcome and encouraged. You may participate in the January 7, 2021, meeting of the San Bernardino Valley Municipal Water District online and by telephone as follows:

Dial-in Info: (877) 853 5247 US Toll-free

Meeting ID: 979 215 700

PASSCODE: 3802020

<https://sbvmwd.zoom.us/j/979215700>

If you are unable to participate online or by telephone, you may also submit your comments and questions in writing for the District's consideration by sending them to comments@sbvmwd.com with the subject line "Public Comment Item #" (insert the agenda item number relevant to your comment) or "Public Comment Non-Agenda Item". Submit your written comments by 6:00 p.m. on Wednesday, January 6, 2021. All public comments will be provided to the Chair and may be read into the record or compiled as part of the record.

IMPORTANT PRIVACY NOTE: Participation in the meeting via the Zoom app is strongly encouraged. Please keep in mind: (1) This is a public meeting; as such, the virtual meeting information is published on the World Wide Web and available to everyone. (2) Should you participate remotely via telephone, your telephone number will be your "identifier" during the meeting and available to all meeting participants. Participation in the meeting via the Zoom app is strongly encouraged; there is no way to protect your privacy if you elect to call in to the meeting. Online participants MUST log in with a Zoom account. The Zoom app is a free download.



SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
380 E. Vanderbilt Way, San Bernardino, CA 92408

BOARD OF DIRECTORS WORKSHOP - RESOURCES

AGENDA

2:00 PM Thursday, January 7, 2021

CALL TO ORDER

Chairperson: Director Hayes

Vice-Chair: Director Harrison

1) INTRODUCTIONS

2) PUBLIC COMMENT

3) SUMMARY OF PREVIOUS MEETING

3.1 December 3, 2020, Meeting (Page 3)

[Summary Notes BOD Workshop - Resources 120320](#)

4) DISCUSSION ITEMS

4.1 Consider Amendments to the Geoscience Contract for the Upper Santa Ana River Integrated Model and the Related Balleau Groundwater Contract for Peer Review (Page 7)

[Staff Memo - Consider Amendments to the Geoscience Contract for the Upper Santa Ana River Integrated Model and the Related Balleau Groundwater Contract for Peer Review](#)
[Geoscience Water Quality Modeling Amendment Proposal](#)
[Balleau Groundwater Amendment Proposal](#)

4.2 Presentation of Water Conservation Education Biannual Report (Page 21)

[Staff Memo - Presentation of Water Conservation Education Biannual Report](#)
[Water Conservation Education Biannual Report](#)

4.3 Review List of Current Board Committees and Other Appointments (Page 30)

[Staff Memo - Review List of Current Board Committees and Other Appointments](#)

5) FUTURE BUSINESS

6) ADJOURNMENT

PLEASE NOTE:

Materials related to an item on this Agenda submitted to the Board after distribution of the agenda packet are available for public inspection in the District's office located at 380 E. Vanderbilt Way, San Bernardino, during normal business hours. Also, such documents are available on the District's website at www.sbvmd.com subject to staff's ability to post the documents before the meeting. The District recognizes its obligation to provide equal access to those individuals with disabilities. Please contact Melissa Zoba at (909) 387-9228 two working days prior to the meeting with any special requests for reasonable accommodation.



DATE: January 7, 2021
TO: Board of Directors Workshop - Resources
FROM: Staff
SUBJECT: Summary of December 3, 2020 Board of Directors Workshop – Resources

The Resources Workshop convened on December 3, 2020. Director Hayes chaired the meeting via video conference.

Directors Present: President Harrison, Vice President Kielhold, Director Hayes, Director Longville, and Director Navarro

Staff Present:

Heather Dyer, MS, MBA – Chief Executive Officer/General Manager
Cindy Saks, CPA – Chief Financial Officer/Deputy General Manager
Bob Tincher, PE, MS – Chief Water Resources Officer/Deputy General Manager
Melissa Zoba, MBA, MPA – Chief Information Officer
Kristeen Farlow, MPA – External Affairs Manager
Matthew E. Howard, MS – Water Resources Senior Project Manager
Adekunle Ojo, MPA – Manager of Water Resources

Members of the Public Present:

Melody McDonald, San Bernardino Valley Water Conservation District
Sandra Ibarra, Council Member, City of San Bernardino
Gil Botello

Pursuant to the provisions of Executive Order N-29-20 issued by Governor Gavin Newsom on March 19, 2020 this meeting will be conducted by teleconference only.

3. Summary of Previous Meeting

The meeting notes from the November 5, 2020 meeting were reviewed with no comments.

4.1 Consider Emergency Services and Pipe Fabrication Agreement with the Metropolitan Water District of Southern California

Chief Water Resources Officer/Deputy General Manager Bob Tincher presented an Agreement that allows the District an option to utilize the Metropolitan Water District of Southern California (MWD) pipe fabrication capabilities and personnel if available. The existing agreement expired in 2016, he noted, but this agreement would not have an expiration date.

Mr. Tincher explained that MWD is not a pipe fabrication contractor but could assist with fabrication and potential installation of pipe in an emergency situation. This agreement is a last resort as part of the District's Emergency Plan, he noted. Mr. Tincher advised that legal counsel pointed out there is no warranty on any work.

Director Longville asked about the lack of warranty. Mr. Tincher said he thought the previous agreement lacked a warranty on any MWD work, also.

Vice President Kielhold asked about the MWD plant. Mr. Tincher replied it is located in the Azusa area. Mr. Tincher responded to director questions and explained some detail related to pipe fabrication.

Action Item(s): This item will be forwarded to a future Board Meeting for consideration.

4.2 Update to the Request to Provide Financial Support at the Proposed Garcia Center Community Garden

External Affairs Manager Kristeen Farlow explained that the Garcia Center for the Arts is leasing a lot from Valley District near their building and has proposed construction of a community garden. They have requested \$1,000 financial support for the irrigation system, she said.

There is a water connection at the site, Farlow stated. Chief Financial Officer/Deputy General Manager Cindy Saks added that Valley District provided a letter to the City of San Bernardino to enable the Garcia Center to set up a water account.

Ms. Farlow noted that the District currently offers financial support for the installation of efficient irrigation systems and the Garcia Center would be able to participate once it is

installed. They anticipate completion in mid-2021 and funding is available through a combination of both the 25 percent program and the 50 percent program, proposing funding this project at 50 percent level.

Director Longville reminded the Board about discussion at the August workshop and described the water supply situation at the garden site. She noted the benefits of community gardens. She indicated that any project done should be able to be replicated under the same conditions and posited that in many cases public or private partners may split the cost for water hookup to allow development of community gardens in vacant spaces. She suggested the District may be able to match any such assistance provided. Ms. Saks noted that the City water department advised her that there were no additional fees; there is only a water deposit for a new account.

Director Navarro recommended that the Center determine if there is additional cost in the future, and if so, to reapply for additional financial support. In response to Chair Hayes, Ms. Farlow explained that once the installation is completed, the Center would apply for reimbursement under the existing conservation programs; this item does not need to go further for Board approval.

Vice President Kielhold asked about other District involvement in community gardens. Ms. Farlow listed other past garden activities. In response to Kielhold, General Manager Dyer indicated the District had purchased this particular lot for the Lakes and Streams Project. General Manager Dyer noted that the Engineering Department is working on an analysis of District properties which will come before the Board in the next couple of meetings.

Kielhold voiced concern regarding investment in properties that may not remain in District ownership. Director Hayes reminded the Board that when the Garcia Center originally approached the District regarding this project, it was suggested that they purchase the property from the District. Kielhold also pointed out that the project scope has increased which is changing his view about the garden.

President Harrison agreed with Vice President Kielhold that this is a property that the District should not own and suggested moving it to surplus and selling it. He indicated support for the funding request.

In response to Chair Hayes, Ms. Farlow explained the combination of the financial programs to arrive at 50 percent reimbursement. Hayes suggested development of a policy related to funding requests. Director Navarro pointed out that a consultant was hired to analyze those items and that the budget had been increased, but there does not seem to be eagerness to take advantage of the programs. He agreed there should be further discussion on how the funding is distributed in the community.

Director Longville requested that a copy of the Garcia Center lease agreement be included for future discussions. Chief Financial Officer Cindy Saks indicated the lease term is 10 years with the idea that the Center would purchase the lot at some time. She also noted that several parcels were identified as surplus, but this parcel was under a lease agreement.

Vice President Kielhold asked about progress on the Strategic Plan. Ms. Dyer indicated it requires Board input at a retreat, which may be in the late spring if possible, depending on the COVID-19 situation.

Action Item(s): Receive and File

Chair Hayes requested an item on the agenda to add future agenda items.
President Harrison thanked Director Navarro for his service on the Board.

5. Adjournment

Staff Recommendation

Receive and file.



DATE: January 7, 2021

TO: Board of Directors Workshop - Resources

FROM: Adekunle Ojo, Water Resources Manager
Bob Tincher, Chief Water Resources Officer/Deputy General Manager

SUBJECT: Consider Contract Amendments for the Upper Santa Ana River Integrated Water Quality Model

Summary

Staff is recommending amendments to the two agreements related to the development of the Upper Santa Ana River Integrated Model (Integrated Model) to include Water Quality modeling components. The first amendment is a \$52,402 increase to the Geoscience, Inc. (Geoscience) contract as the developer of what will now be an Integrated Water Quality Model. The second amendment is a \$78,440 increase to the Balleau Groundwater's (BGW) contract for the concurrent peer review of the Integrated Water Quality Model. The Integrated Water Quality Model is a joint project with Western Municipal Water District (Western) so that the cost for each agency is \$65,421 (Geoscience - \$26,201, BGW - \$39,220). These are time and materials contracts so the actual cost may be lower than proposed.

The additional work funded by these contract amendments was requested by the team of stakeholders that has been assisting with the model development and will add time to collaboratively develop the water quality model objectives and review the underlying water quality data. Staff of the participating agencies believe that this additional work will improve the quality of the model and increase the level of confidence.

Background

The Integrated Model is a joint project with Inland Empire Utilities Agency (IEUA), Orange County Water District (OCWD) and Western to create a sophisticated tool to better understand the interaction of the surface flow and groundwater levels from the Yucaipa area to Prado Dam; to help determine the cause of decreasing flow in the Santa Ana River; and to quantify any impacts to habitat due to the various proposed water supply projects in the Upper Santa Ana River Habitat Conservation Plan. The goal was to develop a model that could help determine what factors may be contributing to the decline in flows in the Santa Ana River and analyze the future water supply projects, or “Covered Activities”, included in the Upper Santa Ana Habitat Conservation Plan (HCP) which include projects in which Valley District is participating: Enhanced Recharge project, Active Recharge projects, the Riverside North Aquifer Storage and Recovery Project, and several recycled water projects along the Santa Ana River through the Local Resources Investment Program.

The Integrated Model has been used to supplement species and habitat modeling, providing a solid foundation for the biological effects analysis of HCP Covered Activities as well as for proposed projects that may have cumulative long-term effects on the River. In addition, this model is being enhanced into a water quality model that is useful for the technical analyses required of Valley District, and others, by the Cooperative Agreement to Protect Water Quality and Encourage Conjunctive Uses of Imported Water in the Santa Ana River Basin. The water quality model essentially covers the Valley District and Western service areas.

Geoscience was selected by a review committee as the firm to develop the Integrated Model and accompanying Integrated Water Quality Model. BGW and the U.S. Geological Survey were contracted to provide independent, concurrent peer review of the project. The HCP consulting team, ICF Jones & Stokes, is also participating in the development process. The covered activity modeling work began in May 2017 and was completed in 2019; however, additional comments were received mostly regarding model calibration that required contractual amendments for model calibration and water quality modeling. The water quality model is expected to be finalized in the spring of 2021. A Section 6 Grant from the United States Fish and Wildlife Service has provided \$999,621 of federal funding for this project, including the cost to develop the water quality model, to date.

The proposed budget amendments will be generally used for the following additional tasks:

Geoscience

- Additional water quality modeling for ambient water quality recomputation and development of water quality model objectives requested by the peer review team (\$20,352)
- Preparing a technical memorandum for 20-Year Water Quality Modeling Projections (\$28,756)
- Additional project management tasks associated with water quality modeling and Technical Subgroup meeting (\$3,294)

BGW

- Peer review of mass loading concept for nitrate and TDS (\$16,280)
- Peer review of model calibration and model performance (\$28,120)
- Peer Review Presentation, Reporting and Meetings (\$34,040)

If approved, the amendment would bring the total Geoscience contract amount to \$1,886,721 and BGW’s total contract amount to \$312,846.

Geoscience Integrated Model Contract		Reimbursable
Authorized Contract (April 2017)	\$ 956,729	Funding Match
Amendment #1 (August 2018)	\$ 336,162	\$336,162
Amendment #2 (February 2019)	\$ 541,428	\$541,428
Amendment #3 (Proposed)	\$ 52,402	\$0
TOTAL	\$ 1,886,721	\$877,590
BGW Peer Review Contract		
Authorized Contract (June 2017)	\$ 209,406	\$94,031
Amendment #1 (October 2019)	\$ 25,000	\$25,000
Amendment #2 (Proposed)	\$ 78,440	\$0
TOTAL	\$ 312,846	\$119,031

Fiscal Impact

The Integrated Water Quality Model work is not a budgeted item in the Valley District’s Fiscal Year 2020-2021 Operating Budget. However, funds are available in the Valley District’s current

budget in Budget Category 6360 (Consultants) to pay the total cost of \$130,842 with Valley District's cost share totaling \$65,421.

It should be noted that work completed on the Integrated Model project between July 1, 2018 and March 15, 2021 was reimbursed by the Section 6 grant obtained by Staff from the U.S. Fish and Wildlife Service in 2018 in the amount of \$996,621 for eligible reimbursable costs.

Staff Recommendation

Staff recommends that the two contract amendments for Geoscience and Balleau Groundwater to include additional water quality modelling work for the Santa Ana River Integrated Water Quality Model be forwarded to the Board of Directors for consideration.

Attachment

1. Geoscience Proposed Third Budget Amendment
2. Balleau Groundwater Proposed Second Budget Amendment

GEOSCIENCE

The First Name in Groundwater

October 23, 2020

Mr. Bob Tincher, PE
Deputy General Manager - Resources
San Bernardino Valley Municipal Water District
380 East Vanderbilt Way
San Bernardino, CA 92408-3593

Re: Budget Amendment Request for the Upper Santa Ana River Integrated Model Water Quality Modeling

Dear Bob:

At the request of the Technical Advisory Committee (TAC) at the July 15, 2020 Integrated Santa Ana River (SAR) Model status update conference call, a technical subgroup meeting was held to discuss water quality modeling challenges and approaches with technical experts. This subgroup meeting was held on August 17, 2020. A meeting summary is included as Attachment A. Two action items were suggested by the subgroup and brought before the larger TAC at the August 26, 2020 conference call. These items included:

- Additional time has been requested by the peer review team and stakeholders to collaboratively develop the water quality model objectives. Results will be summarized in a technical memorandum (TM).
- Additional review time for the water quality data has been requested by the peer review team and stakeholders. Results will be summarized in a TM.

In response to the TAC's approval of these items, Geoscience Support Services, Inc. (Geoscience) has prepared this budget amendment to cover the associated work. In addition, interest was expressed at the September 24, 2020 conference call regarding the possibility of using the Integrated SAR Model solute transport capabilities for future Santa Ana River Watershed triennial ambient water quality (AWQ) updates. Exploring the use of the model for future AWQ recomputations is also included in this budget amendment. The following sections discuss the proposed scope of the additional work and estimated costs.

PO Box 220 Claremont, CA 91711
t. 909.451.6650
f. 909.451.6638
www.gssiwater.com

Scope of Work

Task 3.11: Water Quality Modeling

Task 3.11.4: Explore use of Integrated SAR Model for AWQ Recomputation

The Water Quality Control Plan (Basin Plan) for the Santa Ana River Basin requires the implementation of a watershed-wide total dissolved solids (TDS) and nitrogen groundwater monitoring program to determine AWQ, assess water quality objectives, and track assimilative capacity in each groundwater management zone (GMZ). Under the current Basin Plan, AWQ is recomputed every three years. Previous AWQ calculations have relied on the development of AWQ point statistics, contouring of water quality, and estimation of volume-weighted concentrations using a physical model of the basin. The physical model currently being used contains 400 meter x 400 meter model cells with specific yield estimates and elevation of the effective aquifer base for each GMZ analyzed. However, the specific yield values and basin geometry incorporated in this physical model were developed in the late 1990s. Updated basin geometry and lithologic data from drilling of new wells and on-going and recent studies provide an opportunity to improve the accuracy of AWQ recomputation.

Under proposed Task 3.11.4, Geoscience will conduct a series of analyses to explore the use of the Integrated SAR Model for future AWQ updates. The Integrated SAR Model has a finer resolution (100 ft x 100 ft model cells) than the current AWQ physical model, with updated basin geometries and specific yield values from lithologic modeling of the Basin. Therefore, several analyses will be developed to evaluate projected changes from the different AWQ computation methods. These analyses and associated assumptions will be developed in close consultation with the TAC. However, for the purpose of this budget amendment, we propose to conduct the following analyses for the Bunker Hill-A, Bunker Hill-B, and Lytle GMZs to provide an example of anticipated impacts from changes in AWQ calculation methodology.

Series of Analyses to Explore use of Integrated SAR Model for AWQ Recomputation

Case	Basin Geometry	Specific Yield	Concentration
Baseline ¹	Current AWQ Physical Model	Current AWQ Physical Model	Current AWQ Recomputation
1	Current AWQ Physical Model	Integrated SAR Model	Current AWQ Recomputation
2	Integrated SAR Model	Current AWQ Physical Model	Current AWQ Recomputation
3	Integrated SAR Model	Integrated SAR Model	Integrated SAR Model

¹The Baseline represents the results from the most recent AWQ recomputation (WSC, 2020).

- **Baseline with previous basin geometry and specific yield values (from current AWQ physical model).** This baseline, which represents the results from the most recent AWQ recomputation, will be used as a point of comparison with the other analyses to determine impacts of using the Integrated SAR Model for AWQ calculation.
- **Case 1: Previous basin geometry (from current AWQ physical model) and specific yield values from Integrated SAR Model.** This analysis will use point statistics and water quality contours from previous AWQ reports to determine the effect changes in specific yield have on the computation of AWQ.
- **Case 2: Integrated SAR Model basin geometry and previous specific yield values (from current AWQ physical model).** This analysis will also use previous AWQ point statistics and water quality contours to evaluate the effect updated basin geometry has on the computation of AWQ.
- **Case 3: Calibrated Integrated SAR Model.** For this analysis, the calibrated Integrated SAR Model (flow and transport models) will be used to determine volume-weighted concentrations in each GMZ to estimate the cumulative impact of refined estimates of specific yield, updated basin geometry, and model-calculated water quality estimates.

Results from the scenario runs will be presented in the Integrated SAR Model solute transport modeling report.

Task 4.11: Prepare Technical Memorandum for 20-Year Water Quality Modeling Projections for Groundwater Management Zones

Task 4.11.3: Prepare a Water Quality Model Objectives Technical Memorandum

Additional time has been requested by the peer review team and stakeholders to collaboratively develop the water quality model objectives. Therefore, the group has decided that a formal and more detailed discussion of modeling objectives and goals is warranted. Results of the collaborative effort will be presented a separate Water Quality Objectives Technical Memorandum (TM) to clearly outline expectations and goals. This task will satisfy Action Item 92 (entered in the meeting minutes for the August 26, 2020 conference call).

Based on feedback Geoscience has received at monthly project update meetings, modeling workshops, through conversations with or comments received from stakeholders, and as indicated in prior reports, modeling goals and objectives for this phase of work will be summarized in a draft TM for review by the TAC. This will include proposed model domain, what questions the solute transport modeling needs to answer, how much detail is needed, what level of accuracy is expected, and general anticipated level of effort in terms of time and money. Answers to these questions will be instrumental in the development of the solute transport model, modeling approach, and assumptions. A draft version of the TM will be circulated to the TAC for review and comment. Any comments from the TAC on the draft TM will be incorporated in the Water Quality Calibration Report.

Task 4.11.4: Prepare a Water Quality Data Review Technical Memorandum

In addition to providing a more detailed discussion of modeling objectives and goals, additional review time for water quality data and assumption development was also requested by the water quality modeling subcommittee and stakeholders. Results from the data collection effort will be summarized in a separate TM. Formalizing the data review and systematically discussing assumption development will allow for a collaborative peer review, incorporation of additional knowledge from TAC members, and development of defensible modeling assumptions. This task will satisfy Action Item 93 (entered in the meeting minutes for the August 26, 2020 conference call).

Geoscience will prepare a TM summarizing data collection and review for the development of the solute transport model. Trends will be analyzed and discussed in terms of the conceptual model and physical processes (e.g., vadose zone loading, historical land use, etc.). As part of the TM, a decision matrix will be developed that identifies physical processes, ranks their relative importance, and summarizes what scientific process or assumption could be used to represent them in the water quality model. A draft version of the TM will be circulated to the TAC for review and comment. Any comments from the TAC on the draft TM will be incorporated in the Water Quality Calibration Report.

Task 5.11: Project Management and Meetings - Water Quality Modeling

Task 5.11.5: Prepare for and Attend 17-Aug-20 Water Quality Modeling Technical Subgroup Meeting


This task covers Geoscience's preparation for and attendance at the 17-Aug-20 technical subgroup meeting, which was not anticipated in the original cost estimate. A summary of the subgroup meeting was prepared and is included as Attachment A.


Schedule

The proposed schedule for the water quality modeling work, including the additional TMs from Tasks 4.11.3 and 4.11.4 and scenario runs from Task 3.11.4 (above), is shown in the following table.

Proposed Water Quality Modeling Schedule

Item	Sept 2020	Oct 2020	Nov 2020	Dec 2020	Jan 2021	Feb 2021
Water Quality Model Objectives TM (Task 4.11.3)						
Water Quality Data Review TM (Task 4.11.3)						
Water Quality Model Calibration						
Pilot Testing Scenarios for AWQ Recomputation (Task 3.11.4)						
Water Quality Model Calibration Report						

 = Draft TM/Report

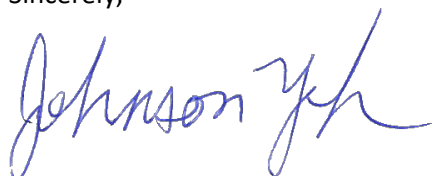
 = Final TM/Report

Cost Estimate

The total proposed cost of additional work under Tasks 3.11, 4.11, and 5.11, above, is \$52,402. A breakdown of cost by task and anticipated staff participation is provided in attached Table 1.

If you have any questions, please contact us at (909) 451-6650

Sincerely,



Johnson Yeh, PhD, PG, CHG
 Principal Geohydrologist
 Encl.



David Barnes
 Senior Geohydrologist / Modeler

Budget Amendment Request for the Upper Santa Ana River Integrated Model Water Quality Modeling

Task		GEOSCIENCE SUPPORT SERVICES, INC.											
		Principal Hydrologist	Senior Modeler	Senior Geohydrologist	Project Modeler/ Geohydrologist	Sr. Staff Modeler/ Geohydrologist	Mid-Level Modeler/ Staff Geohydrologist	Staff Geohydrologist	Graphics	Clerical	Labor	Reimbursable Expenses ¹	Total Cost
<i>Hourly Rate:</i>		\$320	\$238	\$215	\$179	\$155	\$145	\$135	\$119	\$100			
3.11 Water Quality Modeling													
3.11.4	Explore use of Integrated SAR Model for AWQ Recomputation		20		20	20	40	16	8		\$ 20,352		\$ 20,352
	<i>Subtotal (Task 3.11)</i>	0	20	0	20	20	40	16	8	0	\$ 20,352	\$ -	\$ 20,352
4.11 Prepare Technical Memorandum for 20-Year Water Quality Modeling Projections for Groundwater Management Zones													
4.11.3	Prepare a Water Quality Model Objectives Technical Memorandum		6		24	20	8		4		\$ 10,460		\$ 10,460
4.11.4	Prepare a Water Quality Data Review Technical Memorandum		8		40	16	40		8		\$ 18,296		\$ 18,296
	<i>Subtotal (Task 4.11)</i>	0	14	0	64	36	48	0	12	0	\$ 28,756	\$ -	\$ 28,756
5.11 Project Management and Meetings - Water Quality Modeling													
5.11.5	Prepare for and Attend 17-Aug-20 Water Quality Modeling Technical Subgroup Meeting		4		8	4	2				\$ 3,294		\$ 3,294
	<i>Subtotal (Task 5.11)</i>	0	4	0	8	4	2	0	0	0	\$ 3,294	\$ -	\$ 3,294
TOTAL ADDITIONAL HOURS AND COST (Tasks 3.11, 4.11, & 5.11):		0	38	0	92	60	90	16	20	0	\$ 52,402	\$ -	\$ 52,402

Notes:
¹ Reimbursable Expenses includes travel and mileage.

BALLEAU GROUNDWATER, INC.
901 RIO GRANDE BLVD. NW, SUITE F-242
ALBUQUERQUE, NEW MEXICO 87104

W. PETER BALLEAU CPG, P.Hg., P.G. (AZ, KS, TX)
DAVE M. ROMERO P.H.
STEVEN E. SILVER GISP

November 13, 2020

Mr. Bob Tincher
Chief Water Resources Officer/Deputy General Manager
San Bernardino Valley Municipal Water District
380 East Vanderbilt Way
San Bernardino, CA 92408

Subject: Peer Review Work Scope in Support of Upper Santa Ana River Integrated
Water Quality Model Development

Dear Mr. Tincher:

Development of the Upper Santa Ana River (SAR) Integrated Model¹ and its use to estimate hydrologic effects associated with the Habitat Conservation Plan² marks a substantial leap forward in regional-area model development. Development of a water quality component in the model is a next logical step. I understand there is desire to add a solute transport component to the model for evaluation of projects with questions involving loading of total dissolved solids (TDS) and nitrate in the aquifer system of the Upper Santa Ana Valley. Interest in the model is broad and is planned to consider programs of the Santa Ana Watershed Project Authority associated with re-computation of triennial ambient water quality and of the San Bernardino Valley Municipal Water District (and other parties) with development of a Salt and Nutrient Management Plan in the San Bernardino Basin area. As you are aware, Balleau Groundwater, Inc. (BGW) was involved with independent peer review during developmental stages of the SAR Integrated Model (alongside the U.S. Geological Survey) and has been involved in initial-stage discussions of solute transport model development.

¹ Geoscience Support Services, Inc., 2020, Upper Santa Ana River Integrated Model Summary Report - DRAFT: Prepared for San Bernardino Valley Municipal Water District, report dated April 29, 2020.

² Under development (http://www.uppersarhcp.com/documents/SAR_HCP_NOP_final_20181206.pdf).

As discussed, we have considered aspects of peer review structured to provide commentary as the solute transport model is developed. Earlier this week, we coordinated with Geoscience Support Services, Inc. (Geoscience) to develop an understanding of how their work product is currently organized as well as how their next phase of work is unfolding. After consideration of that setting, we developed an outline of peer review work tasks as described below.

- A. *Mass loading concept for Nitrate and TDS* – We recommend evaluation of mass loading as it is implemented in the model both spatially and temporally. Other important factors we will inspect relate to specifications of initial conditions and representation of transport parameters.
- B. *Model Calibration* – The calibration process involves evaluation of model performance and information considered as the calibration evolves. The calibration process typically results in identification of areas where performance may be of particular interest. We propose to examine selected areas of interest in coordination with the stakeholders involved in meetings related to model development.
- C. *Peer Review Presentation* – We propose to develop slides for presentation of our peer review findings and opinions. The presentation(s) will be geared toward Task A and Task B above.
- D. *Reporting* – Overall findings will be summarized in a draft technical memorandum. We plan to also respond to comments on the draft document.
- E. *Meetings* – We anticipate up to five meetings may be forthcoming as the model is developed through the schedule currently planned to extend through February of 2021.

We prepared Table 1 (attached) with the proposed work scope and estimated cost for technical support involving peer review. The approach would be geared toward coordinating with Geoscience and the area stakeholders to adapt the peer review as may be needed to fit perspectives that may evolve as Geoscience's work product develops.

I estimate that our peer review services, as outlined above and in Table 1, could be completed with a budget of \$78,500. The estimated cost does not reflect a fixed cost for our services; it is based on the estimated level of effort. Monthly invoices will reflect actual costs in terms of hours and expenses. The actual cost may be more or less than estimated, but will be fully coordinated with San Bernardino Valley Municipal Water District to ensure cost is under control.

Mr. Bob Tincher
November 13, 2020

3

BGW is pleased to provide this work scope for your consideration. I am happy to discuss the approach further if you have a different line of thinking for moving forward. Please call with any questions you may have.

Very truly yours,

BALLEAU GROUNDWATER, INC.

A handwritten signature in black ink, appearing to read "D. Romero", with a stylized flourish at the end.

Dave M. Romero
President

Attachments: Table 1. Upper Santa Ana River Integrated Water Quality Model - Peer
Review Scope of Work and Cost Estimate

Fee Schedule

TABLE 1. UPPER SANTA ANA RIVER INTEGRATED WATER QUALITY MODEL - PEER REVIEW SCOPE OF WORK AND COST ESTIMATE

BALLEAU GROUNDWATER, INC.
 901 Rio Grande Blvd. NW, Suite F-242
 Albuquerque, NM 87104
 505-247-2000



Project: Upper SAR Water Quality Model Development - Scientific Peer Review
 Period: 2020 - 2021

COST ESTIMATE
November 13, 2020

Work Product	Hydrologic Research			Field Investigation			Calculate/Simulate			Interpret/Recommend			Meetings/Testimony			Report			
	Senior Counsel	Principal	Hydrologist	Senior Counsel	Principal	Hydrologist	Senior Counsel	Principal	Hydrologist	Senior Counsel	Principal	Hydrologist	Senior Counsel	Principal	Hydrologist	Senior Counsel	Principal	Hydrologist	Admin
Hourly Rate \$	250	185	155	250	185	155	250	185	155	250	185	155	250	185	155	250	185	155	60

Task: PEER REVIEW TDS and NITRATE SIMULATION

Task Description	Senior Counsel	Principal	Hydrologist	Senior Counsel	Principal	Hydrologist	Senior Counsel	Principal	Hydrologist	Senior Counsel	Principal	Hydrologist	Senior Counsel	Principal	Hydrologist	Senior Counsel	Principal	Hydrologist	Admin	Days	Task Cost	
A. Mass loading concept for Nitrate and TDS - Evaluate quantities of mass loading spatially and temporally throughout model domain. Examine specification of initial conditions for Nitrate and TDS. Examine solute transport model parameters.							4			4									3		11	\$16,280
B. Model Calibration - Evaluate model performance. Areas of key interest are anticipated to turn up as the model is developed. Selected areas will be examined and commented on.							7			7									5		19	\$28,120
C. Peer Review Presentation - Develop slides describing observations from Tasks A and B above (to be presented in workshops/meetings)										4									4		8	\$11,840
D. Reporting - Prepare draft peer review memorandum and respond to comments.										5									5		10	\$14,800
E. Meetings - Webinar sessions (5 sessions x 2 staff x .5 day)														5							5	\$7,400
Element Cost	\$0			\$0			\$16,280			\$29,600			\$7,400			\$25,160						
																				Total Days	53 (8 hrs/day)	

Estimate for Services \$78,440

Expenses

	Unit Price	Cost
Airfare	750	\$0
Car Rental	85	\$0
Hotel	160	\$0
Administration Fee 5%		\$0

Estimate for Expenses \$0

Estimated Costs for Services and Expenses \$78,440

Note:

The itemized listing of task costs is based on the work elements, tasks and the estimated level of effort required to provide scientific advisory peer review and comments on developing TDS and Nitrate transport simulation capability into the SAR Integrated Model. The task list is not intended to represent exact costs of line-items. The actual work required and the level of effort may vary as work requirements of the project evolve during project development. Accordingly, Balleau Groundwater, Inc. proposes to undertake the work on the basis of its Fee Schedule. Monthly invoices will reflect actual costs incurred for authorized work performed on behalf of the project in terms of hours and expenses. The actual cost for the program may be more or less than the estimated costs listed above, but will be fully coordinated with and directed by San Bernardino Valley Municipal Water District to ensure cost is under control.



DATE: January 7, 2021
TO: Board of Directors' Workshop – Resources
FROM: Kristeen Farlow, External Affairs Manager
SUBJECT: Presentation of Water Conservation Education Biannual Report

The Inland Empire Resource Conservation District, together with staff, will present a biannual update on the water conservation education program.

Background

Requirements from the adopted AB 1668/SB 606 - *Making Water Conservation a California Way of Life* - allow for the State Water Resources Control Board to issue informational orders to wholesale water suppliers to provide information on water conservation assistance to retail water agencies. Assistance could include water education, rebate assistance, and other technical assistance. The District provides water use efficiency educational programming throughout the service area as part of the water education and technical assistance through a partnership with the Inland Empire Resource Conservation District.

Since 2007, Valley District has contracted with the Inland Empire Resource Conservation District (IERCD) to manage and perform student education programs, adult programs, and educational workshops. Due to the COVID-19 pandemic, the program evolved in March 2020. This year, the IERCD has offered a blended education program. It includes:

- All in-person conservation education programs – both student and adult – have shifted to a online materials, for distance learning, along with options for live or recorded classroom presentations.
- Live presentations using virtual meeting platform available to all teachers throughout the Valley District service area upon request, with a goal of performing/presenting 100 presentations in the school year. Companion materials will be provided to teachers ahead of time so they may share them with their students.

- Downloadable content on the Valley District and IERCD websites, including narrated slides presentation and virtual lessons and activities for students and teachers.
- Online Landscape Workshops, similar to those offered in Spring 2020. Staff proposes four to six of workshops this fiscal year.
- Virtual Project WET Teacher Workshops will be scheduled, targeting 4th- 6th grade teachers throughout the Valley District service area.

The IERCD has completed a number of live virtual classroom presentations, prepared materials for teachers to use in the classroom and parents to use at home, and facilitated one online landscape workshop so far. There are a number of elements of the contract still to be completed before the end of the fiscal year on June 30, 2021.

Fiscal Impact

There is no fiscal impact related to this update. In August 2020, the Board approved a contract with IERCD for not to exceed \$30,000 for this work.

Staff Recommendation

Receive and file.

Attachment

Water Education Biannual Report



San Bernardino Valley Municipal Water District Water Conservation Education Bi-Annual Programs Report: January 2021

To: Kristeen Farlow, Manager of Water Use Efficiency / External Affairs
 Contact Information: Office: (909) 387-9229 Cell: (909) 285-6565

kristeenf@sbumwd.com

From: Jasmine Orozco Clark, Education Coordinator
 Contact Information: 25864-K, Business Center Drive, Redlands, CA, 92374
 909-520-4147

jclark@iercd.org
www.iercd.org

Summary of Completed Programming, 20-21

Contract Deliverable	Total Completed	Cost/Deliverable	Line Item Total
Live Virtual Classroom Presentation	7	\$900	\$6,300
Narrated Google Slide Presentation	3	\$450	\$1,350
Virtual Grade Group Activity	1	\$900	\$900
Virtual Workshop	1	\$1,000	\$1,000

Total Spent as of 12/31/20: \$9,550

Total Remaining in 2020-21 Contract: \$20,450

2020-21 DESIGN, DEVELOPMENT, AND IMPLEMENTATION

The onset of COVID-19 in March of 2020 has resulted in significant impact to education, including closure of all school campuses and implementation of distance learning for students to finish out the 19-20 academic year. The radical change in public and private school protocols for student presence and learning has obviously very dramatically impacted the Inland Empire Resource Conservation District's (IERCD/District) brand of in-person conservation education we've facilitated for over 20 years. As of this mid-June 2020 contract development, limited direction has come down from the state regarding protocols for the 2020-21 academic year; however, only one local school district has indicated concrete plans for use of this guidance in the next school year. As a result, the IERCD and other providers of classroom education content are uncertain of the manner in which we will be able to deliver conservation education to area students.

Classroom Program Re-Design: all formerly in-person conservation education programs have been redesigned to allow for ongoing content delivery within a range of anticipated restrictions in Valley District area schools. The former focus on completion of in-class K-12 and late high school/early college programs has shifted to a suite of distance learning materials and options for live and recorded classroom presentations, both of which are projected to continue elevation of resident awareness of the need for and methods of water conservation.

Outreach and Content Assessment: as with program changes, methods for advertising available programming and for assessing content retention are being updated to be facilitated virtually in 2020-21 with an eye to reaching as many residents as possible with Valley District's water conservation messaging.

Regular Assessment of Proposal Components: the IERCD anticipates ongoing evaluation and revision of approaches to water conservation education in Valley District area schools, in partnership with Valley District. Protocols for classroom instruction are currently unknown and will likely shift after established, requiring the District and Valley District to remain responsive and proactive to altering focus on what works best for resident education. To that end, IERCD is proposing:

- (1) monthly staff-level check-ins on components of this proposal and necessary changes; and
- (2) an updated agreement structure detailing a "not to exceed" amount to be further directed by Valley District staff based on general programming categories rather than highly specific deliverables in previous contracts. Valley District direction will be memorialized in task orders to be executed as often as monthly to capture desired direction of IERCD efforts on behalf of the contract.

As with all previous contracts, the IERCD is incredibly grateful for the Valley District's support and partnership in completion of resident education on the critical importance of water conservation.

2020-21 PROGRAMMING OPTION 1: K-12 VIRTUAL WATER CONSERVATION CONTENT

This contract section describes content meant to substitute for the 100 in-person K-12 classroom programs facilitated by IERCD and funded by the Valley District in previous academic years, designed for 2020-21 to consist of (1) packaged content posted to online portal and accessible by residents and (2) options for pre-recorded and live (Zoom) classroom presentations. Each component will include content comprehension and satisfaction assessment via quiz with responses sent to IERCD for analysis/use in adapting content. The suite of content slated to replace in-person K-12 classroom programs is further described in the following section:

Marketing to Area Educators and Residents: IERCD staffers will advertise Valley District programs through a variety of strategies designed to elevate resident awareness of Valley District -sponsored water conservation content and programming, including:

- Social Media: IERCD staff will create posts for District Facebook and Instagram pages, ensuring no less than 2 posts/month address Valley District sponsored virtual content availability, access, and use.
- Website: Valley District -sponsored programming and content will be featured on IERCD's website. District Communications staff will work with interested partners to add links to content on companion websites to increase awareness of availability.

- Virtual Flyers: co-logo'd flyers advertising available content and programming will be created by District staff using professional design software. These materials will be distributed to partners in Valley District service area to school administrators, teachers, and community groups, within requirements established for advertising.

Options for Delivery of Program Content:

- Live virtual presentations using Zoom or similar virtual meeting platform, available upon request by teachers and featuring similar components to existing IERCD water conservation presentations on behalf of the Valley District. Materials used in program activities are projected to be dropped off to the requesting teacher's campus prior to the presentation.
- Downloadable Content from the Valley District's section in IERCD's Conservation Classroom Platform:
 - Narrated Google Slides Presentation: scheduled to be developed and available for download/use to interested educators and residents, these will consist of transitioning the existing IERCD water conservation classroom Prezi into a series of grade-group Google slide presentations narrated by District educators in English and Spanish.
 - Virtual lesson with activity, shorter in length than the full Google Slides presentation, but featuring one or more elements of presentation and connecting to activities requiring simple materials that can be done at home. These will be available in individual grade groups, in both English and Spanish

YTD K-12 Virtual Water Conservation Content:

Task	Description	Cost	Quantity
Live Virtual Classroom Presentation	One live zoom presentation, including all coordination with requesting teacher; tutorial on teleconference platform; plus content refinement based on virtual setting	\$900/Live Presentation	7
Narrated Google Slide Presentation	One narrated Google Slide presentation for specific grade group in English and Spanish, based on existing Prezi with revised activities and content/ satisfaction checks	\$450/Narrated Google Slide Presentation for single grade group	3
Virtual grade-group specific activity or lesson video	Developing one video lesson with activity per grade group, aligned with NGSS Standards and available in English and Spanish; includes all design, filming, editing, and access support	\$900/Virtual Lesson	1
SBVMWD-IERCD Coordination and Reporting	Monthly reporting and coordination meetings	\$1,200/year	Pending

2021 Programming Pending:

- Video Lesson:
 - Two videos currently in-progress for:
 - 4th-5th grade level
 - High school level
- Coordination and Reporting:
 - Item will be billed in Quarter 4 upon completion of 2020-2021 FY

2020-21 PROGRAMMING OPTION 2: VIRTUAL RESIDENT WORKSHOPS

This component of the 2020-21 proposal represents new content for the IERCD- Valley District water conservation education partnership, but is based on successful facilitation of similar virtual workshops on behalf of other water providers. If optioned for the 20-21 contract, Virtual Resident Workshops will include advertising; facilitation of a virtual workshop using Zoom or similar platform; feature a speaker addressing attendees on a rotating series of water conservation-focused topics; include audience Q/A; virtual raffle; and development and distribution of materials; and post-workshop assessment of participant satisfaction and content comprehension. Components of this proposed programming element include:

Marketing to Residents:

IERCD staffers will advertise Valley District programs through a variety of strategies designed to elevate resident awareness of Valley District -sponsored water conservation content and programming, including:

- Social Media: IERCD staff will create posts for District Facebook and Instagram pages, ensuring no less than one post/week is created and posted in the four weeks leading up to the workshop
- Website: workshop details and RSVP portal will be included on IERCD’s website.
- Virtual Flyers: co-logo’d flyers advertising the workshop will be created by IERCD and distributed to (1) email list of past workshop attendees, (2) email list of District partners, (3) posted on websites of partners, (4) posted on Valley District social media pages, and (5) shared with stakeholder groups such as water providers that are part of the Basin Technical Advisory Committee Water Use Efficiency Subcommittee.

Program Facilitation: workshops will be scheduled in coordination with Valley District priorities and will include:

- Webinar materials including presenter PPT, companion resources, worksheets as needed to complete workshop activities;
- Clear RSVP process and location, plus instructions for attendees on platform use, virtual workshop structure, accessing follow-up materials;
- Webinar with speaker; Q/A, activity for attendees, recommendations for follow-up resources and actions;
- Post-webinar assessment on satisfaction and content.

YTD Virtual Workshops:

Task	Description	Cost	Quantity
Program design and implementation – One Virtual Workshop	Develop presentation; coordinate prep and facilitation with attendees and contributors; follow-up materials distribution and adaptive design of next workshop driven by feedback	\$1,000/Workshop	1

2021 Programming Pending:

Three workshops scheduled as part of WISE UP Series: The WISE UP series was designed to address the requests of the Valley District Board made on September 1, 2020.

- March 20, 2021
 - Focus: Water Conservation and Irrigation
 - Smart Irrigation= Water Well Spent
- April 10, 2021
 - Focus: Sustainability and Efficiency

- Healthy Habitat+ Savings
- April 24, 2021
 - Focus: Utility and Productivity
 - Be Wise+ Maximize Use

2020-21 PROGRAMMING OPTION 3: VIRTUAL PROJECT WET TEACHER WORKSHOPS

Virtual Project Wet Workshops will be marketed primarily to members of the education community who work with 4th – 6th grade students within SBVMWD service area. The workshop will last 3-6 hours, and consist of the following elements (Project WET Facilitator workshops must be 6 hours; Project WET regular workshops must be 3-4 hours):

- Pre-Event Coordination including:
 - Securing the venue
 - Managing RSVP's
 - Marketing and outreach for workshops
 - Reviewing Project Wet Lessons and developing accompanying training materials to be virtually distributed to all attendees, to include at least; agenda, updated 4th – 6th grade environmental science classroom standards relative to the critical uses and need for water conservation; example lessons plans; pre/post-program activities to introduce content and reinforce it following lesson; additional resources for information, trainings, and student field trips
- Day-of Facilitation including:
 - Track origin of workshop participants and store contact information for follow-up messaging
 - Training facilitation from personnel within the environmental education/conservation community, addressing attendees on water conservation education foundation, correlation to standards, and available resources for content extension
 - Q/A with presenter(s)
 - Invitation to follow up with IERCD for additional post-workshop educational support
- Post-Presentation Follow-Up:
 - Survey on effectiveness/utility of presentation
 - Electronic versions of all workshop materials and presenter PowerPoints
 - Additional resources in support of water conservation awareness/education and upcoming educational and training opportunities for students, teachers, and parents
 - Information about virtual presentations offered by IERCD/Valley District for students of all grades, and encouragement of teacher distribution of this information

YTD Virtual Project Wet Teacher Workshops:

Task	Description	Cost	Quantity
Program design and implementation – One Virtual Workshop	Planning, Designing, Facilitating Educator Workshop, Workshop advertising, Development of supplemental resources	\$1,000/Workshop	Pending

2021 Programming Pending:

One workshop scheduled in collaboration with the College of Education at California State University of San Bernardino:

- Valley District staff and IERCD staff have begun preparations for a virtual Project Wet Teacher Workshop with students from the College of Education at CSUSB. This decision was made because these students are teachers in training and will highly benefit from the workshop. These students also have the time to dedicate to professional development as they are not currently responsible for teaching a class of students either virtually or in-person.

CONTRACT DETAILS

YTD Programming Executed: \$9,550
Programming Pending: \$7,000
2020-2021 Not To Exceed Total: \$30,000
2020-2021 Remaining Funding Available: \$13,450

ADDITIONAL OFFERINGS

This section is provided to demonstrate work that can be completed within the 2020-2021 FY and address additional opportunities to engage the public in water conservation messaging. Any additional options would be executed within the NTE parameters for the 2020-2021 FY.

2020-21 PROGRAMMING OPTION 4: (VIRTUAL) CAREERS IN WATER PRESENTATION

Outreach, program design and facilitation, and post-program support have been reimagined and redesigned to accommodate COVID-19 restrictions, and consist of the following:

Marketing to Residents:

IERCD staffers will advertise Valley District Careers in Water virtual programs through a variety of strategies designed to elevate resident awareness of Valley District-sponsored water conservation content and programming, including:

- Social Media: IERCD staff will create posts for District Facebook and Instagram pages, to be done in coordination with other classroom and virtual workshop content;
- Website: program, details and access information will be located on IERCD's website;
- Virtual Flyers: co-logo'd flyers advertising the presentations will be created by IERCD and distributed to education staff in high schools, junior colleges, and CSUSB in San Bernardino

Water Career Presentations:

- IERCD staffers will develop Careers in Water presentation content into format capable of being delivered live via Zoom or similar platform, including support for educators and students accessing the presentation.
- Each live presentation will be accompanied by pre-presentation content provided to the participating teacher and post-workshop resources and assessment of satisfaction and content comprehension.

Virtual Careers in Water Pricing Menu

Task	Description	Cost
1 Narrated Google Slide Presentation	One narrated Google Slide presentation for Careers in Water	\$450/Narrated Google Slide Presentation
1 Live Virtual Presentations	Coordinating pre-meeting with teacher to tailor presentation content, troubleshoot or provide tutorial on teleconference platform, plus content development	\$900

2020-21 PROGRAMMING OPTION 5: SOCIALLY DISTANCED DRIVE-THRU EVENT

Outreach, program design and facilitation, and post-program support have been reimagined and redesigned to accommodate COVID-19 restrictions, and consist of the following:

Marketing to Residents:

IERCD staffers will advertise Valley District’s Socially Distanced Drive-Thru Event through a variety of strategies designed to elevate resident awareness of Valley District-sponsored water conservation content and programming, including:

- Social Media: IERCD staff will create posts for District Facebook and Instagram pages, to be done in coordination with other classroom and virtual workshop content;
- Website: program, details and access information will be located on IERCD’s website;
- Virtual Flyers: co-logo’d flyers advertising the event throughout Valley District’s service area.

Event Facilitation:

- IERCD staff will coordinate event location, gather partners, and facilitate during the day of the event;
- Local legislators and other public service leaders will be invited to the event to garner recognition and expand visibility within Valley District service area;
- Event will address Valley District Water Conservation messaging.

Social Distanced Drive-Thru Event Pricing Menu

Task	Description	Cost
1 Drive-Thru Event	Coordinating and securing event location, developing outreach materials, inviting residents and local public service leaders, and ensuring event provides water conservation messaging consistent with Valley District mission	\$1000



DATE: January 7, 2021
TO: Board of Directors' Workshop - Resources
FROM: Heather Dyer, CEO/General Manager
SUBJECT: List of Current Board Committees and Other Appointments

Summary

In preparation for committee assignments and other appointments to be made by the Board President, Staff has compiled the following list of positions based on the Board Handbook and Board actions taken within the last two years. The list is provided today for discussion by the Board so that changes can be made, if necessary, prior to consideration of appointments by the Board President.

Officers and Representatives Elected by Board

	Position	Currently Assigned
Valley District Officer	President	Harrison
Valley District Officer	Vice-President	Kielhold
Valley District Officer	Treasurer	Longville
Valley District Officer	Secretary	Dyer (Staff)
Santa Ana Watershed Project Authority Commission	Commissioner Alternate	-Harrison -Hayes

District Positions Appointed by Board President

Agency/Committee	Position	Currently Assigned
BOD Workshop – Resources (1 st Thursday)	Chair Vice-Chair	-Hayes -Harrison
BOD Workshop – Engineering (2 nd Tuesday)	Chair Vice-Chair	-Kielhold -Hayes
BOD Workshop – Policy (2 nd Thursday)	Chair Vice-Chair	-Longville -Kielhold
Santa Ana Watershed Project Authority Commission	Commissioner Alternate	-Harrison -Hayes
Finance Standing Committee	Member Member	-Longville -Kielhold
General Manager Performance Evaluation Ad hoc Committee	Member Member	-Harrison -Longville

Board of Directors Handbook Review & Update Ad hoc Committee	Member Member	-Harrison -Kielhold
Legislative Action Team Standing Committee	Member Member	- -
Forest Headwaters Resilience Standing Committee	Member Member	-Kielhold -Longville
San Bernardino Valley Conservation Trust Governing Board	Member	-(Navarro)
Active Recharge Projects Policy Standing Committee	Chairman Member	-Kielhold -Longville
West Valley Water District Groundwater Council Ad Hoc Committee	Member Member	-Hayes -Harrison
Yucaipa/Pass Agency Ad Hoc Committee	Member Member	-Harrison -(Navarro)
Rialto Coordination Ad Hoc Committee	Member Member	-Hayes -Kielhold

PRIMARY REPRESENTATIVES BASED ON POPULATION SIZE WITHIN DIVISION

City of Colton	Botello
Terrace Water Company	Botello
Marigold Mutual Water Company	Hayes
City of Rialto	Hayes
West Valley Water District	Hayes
Muscoy Mutual Water Company	Longville
City of San Bernardino	Longville
City of Loma Linda	Harrison
City of Redlands	Harrison
Riverside Highland Water Company	Harrison
Yucaipa Valley Water District	Kielhold
Western Heights Water Company	Kielhold
East Valley Water District	Kielhold
South Mesa Water Company	Kielhold

POSITIONS OUTSIDE VALLEY DISTRICT

ACWA/JPIA ¹	Director Alternate	-Harrison -Hayes
ACWA Local Government Committee ²	Vice-Chair	-Harrison
ACWA Groundwater Committee ²	Member Member	-Harrison -Kielhold
ACWA Bylaws Committee ²	Member	-Harrison
CSDA Legislative Committee ³	Member	-Harrison
CSDA Bylaws Committee ³	Member	-Harrison

Association of San Bernardino County Special Districts ⁴	Governing Board	-Harrison
National Habitat Conservation Plan Coalition Government Affairs Committee ⁵	Member	-Harrison

¹ ACWA JPIA positions are recommended by Board President and are 2 year terms.

² Other ACWA Committees require application by an individual Director submitted to the Clerk of the Board and a vote by Board authorizing the application. The service term is 2 years.

³ CSDA Committees require application by an individual Director submitted to the Clerk of the Board and a vote by Board authorizing the application. The service term is 1 year.

⁴ ASBCSD require application by an individual Director submitted to the Clerk of the Board and a vote by Board authorizing the application. The service term is 2 years.

⁵ National HCP Coalition committee membership is voluntary and open to any member of the Coalition. Committees are formed at the annual meeting for service during the following year.

Fiscal Impact

There is no additional fiscal impact.

Recommendation

Discuss the updated list and provide feedback, as necessary.