

The meeting teleconference will begin shortly

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Public comments, suggestions or questions regarding technical issues may be emailed to comments@sbvmwd.com



Please use the chat feature in the Zoom toolbar to let the moderator know that you would like to make a comment during the meeting.



Your microphone will be muted during the meeting to reduce background noise. Click on the microphone icon to unmute your microphone if needed.



Call to Order

Board of Directors Workshop - Engineering Tuesday, May 12, 2020

Chairperson — Director Kielhold Vice-Chair — Director Hayes



Introductions

Following the introduction of Directors and District staff, participants may use this time to state their name and agency/affiliation in order to be included in the formal record of attendees.



Public Comment

Any person may address the Board on matters within its jurisdiction.

 Please use the chat feature on the Zoom toolbar or digitally raise your hand to let the moderator know you would like to make a comment.



Summary of Previous Meeting (Pg. 3)

Board of Directors Workshop – Engineering April 14, 2020



Discussion Item 4.1 (Pg. 5)

Aaron Jones, Associate Engineer

Consider Engineering Design Services for Solar Panels on Valley District's Administration Building

Staff Recommendation

Direct staff to forward a contract for design of Solar Panels on the Administration Building with Vision Civil Engineering with the associated fees of \$7,800 to an upcoming Board of Directors meeting.



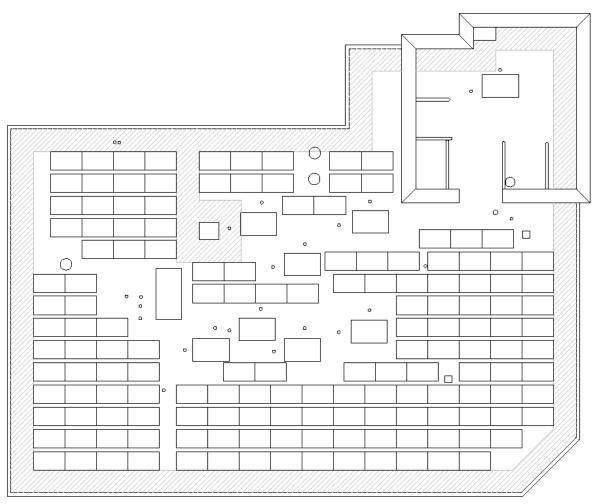


Proposed Roof Layout – 153 Panels, 60-cell type modules

Capacity: 48kW (peak)

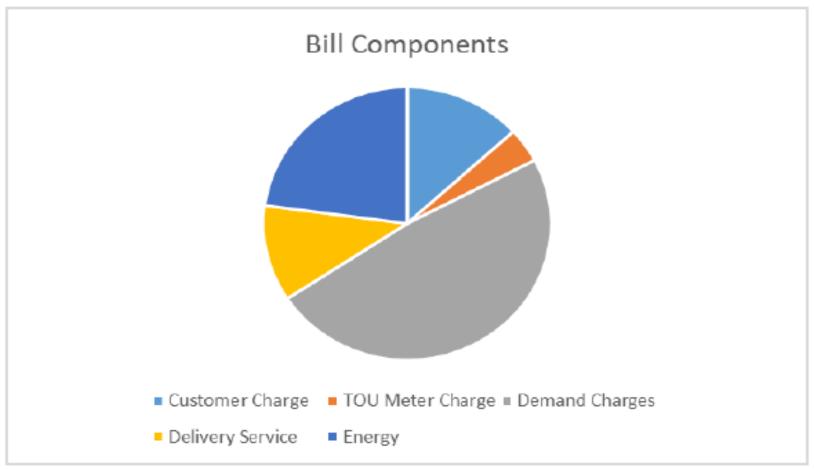
Total Annual Production: 80,500 kWh





153 LONGI LR6-60HBD







Key Information:

- Estimated payback period for 48 kW Solar System: 8.5-13 years
- Anticipated life span of equipment: 20-25 years
- Estimated installation costs: \$130,000-\$150,000

Next steps if the Board would like to proceed:

- Hire Vision Civil Engineering to complete solar system design and specifications (design costs: \$7,800)
- Once plans are complete, Staff will bid project.
- Once bids are received, Staff will propose a contract for installation at a future meeting for the Boards consideration.



Director Comments and Discussion











T. Milford Harrison President

Paul Kielhold Vice President

Susan Longville Treasurer

June Hayes Director

Gil NavarroDirector

Staff Recommendation

Receive Direct staff to forward a contract for design of Solar Panels on the Administration Building with Vision Civil Engineering with the associated fees of \$7,800 to an upcoming Board of Directors meeting.



Discussion Item 4.2 (Pg. 12)

Wen Huang, Chief Engineer

Consider Evaluation of Options for Small Hydropower Plant Divesture by Southern California Edison

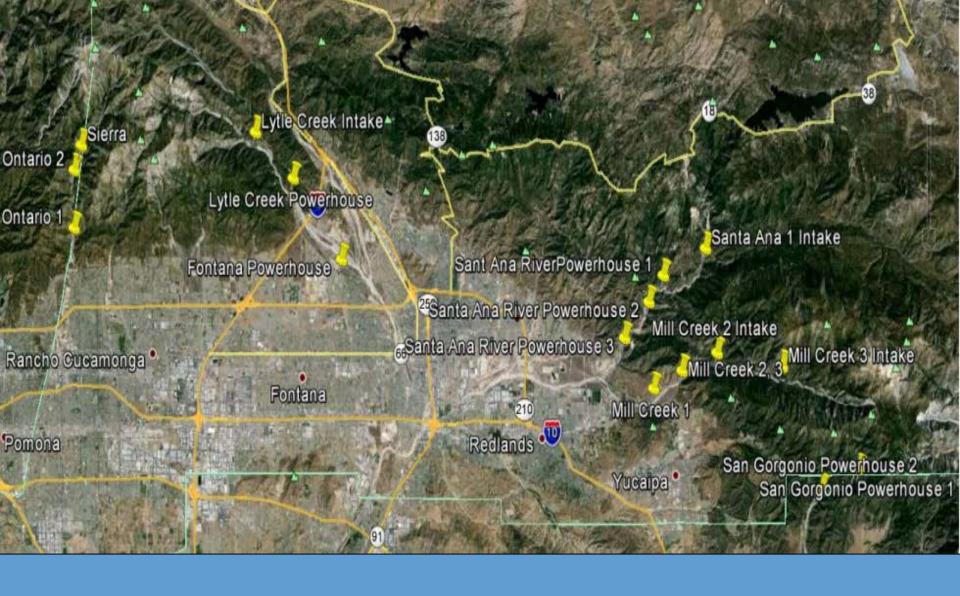
Staff Recommendation

Staff recommends that the Board of Directors direct staff to continue and complete the evaluation and bring recommendations back to the Board of Directors for consideration in future workshops.



Background

- Local Water Users were working collaboratively with SCE to minimize downtimes of their hydroelectric generation plants (hydroplants) to increase water supply reliability and improve water quality;
- Local Water Users learned that SCE's is planning to divest certain small hydropower projects;
- SCE's planned "East-End" divesture may include one or more hydroplants in Santa Ana River, Mill Creek, Lytle Creek, and San Antonio Creek; and
- Local Water Users may have the First Right of Refusal on taking over the hydroplants through historical arrangements and water rights.



SCE East End Hydropower Plants



Potential Benefits

- "Control our own destiny" in regard to upstream water management on SAR, Mill Creek, Lytle Creek, etc.
- Make improvements to the hydro facilities to increase water supply reliability and water quality for local users
- May help Valley District streamline the Santa Ana Sucker Translocation Project (which is mitigation for other water projects)
- Lower Cost renewable energy generation



Proposed Water Users Consortium

- Interested Parties: San Bernardino Valley Municipal Water District, San Bernardino Valley Water Conservation District, Bear Valley Mutual Water Company, Crafton Water Company, City of Redlands, Yucaipa Valley Water District, East Valley Water District.
- Pending: Fontana Water Company (and potentially West Valley Water District and City of Rialto) and San Antonio Water Company



Strategies

- Present a unified front, consortium engaging with a single voice
- Detailed review of all historical documents showing either "blockers" or "preference"
- Engage in bi-lateral negotiations
 - Demonstrate local and technical expertise and strong financial backing
 - Push for exclusivity and a short diligence period
 - Detailed site assessments are absolutes
- Gain support internally and from local stakeholders & representatives
- Detail regulatory approval process
 - Water rights, CPUC, FERC, Interconnection, PPA



Phased-Development Plan

Near-term (<1-2 years)

- Phase I (May Jul) Water Users Consortium formation, strategy development, understand legal position, facilities due diligence
- Phase II (Jul TBD) SCE bilateral negotiations/response to public bid
- Phase III (TBD) Bid Preparation and Site Assessments
- Phase IV (TBD) Final Sale and Transfer

Long-term (2-4 years)

- Phase V (TBD) Repair, Rehabilitation, Retrofit activities
- Phase VI (TBD) Project Startup and Commissioning



Next Steps

- Review of Documents
 - Technical Review NLine Energy (if concept approved, Proposal to be considered ASAP)
 - Legal Position Review Downey Brand
 - Cost-sharing framework
- Formalize a Consortium and consider governance structure
- Declare interest in the facilities
- Request bi-lateral, exclusive engagement
- "Time is of the essence"



Director Comments and Discussion











T. Milford Harrison President

Paul Kielhold Vice President

Susan Longville Treasurer

June Hayes Director

Gil NavarroDirector

Staff Recommendation

Staff recommends that the Board of Directors direct staff to continue and complete the evaluation and bring recommendations back to the Board of Directors for consideration in future workshops.



Discussion Item 4.3 (Pg. 20)

Brent Adair, Project Manager

Update on the Citrus Reservoir Floating Cover System Project

Staff Recommendation Receive and file.



Background

- On November 6, 2018, the Board of Directors authorized procurement of the Rhombo Hexoshield floating cover system. Since then, over 3.7 million balls out of a total of 7.5 million balls have been deployed in the reservoir.
- On December 17, 2019, the Board of Directors approved a budget of \$295,000 for the 2020 Annual Facility Maintenance and Repair Program, of which \$280,000 was budgeted for implementation of corrective measures for the floating cover system at the Citrus Reservoir.
- On March 12, 2020, staff provided an update on the initial draining of the
 Citrus Reservoir and installation of the floating debris boom and net system.

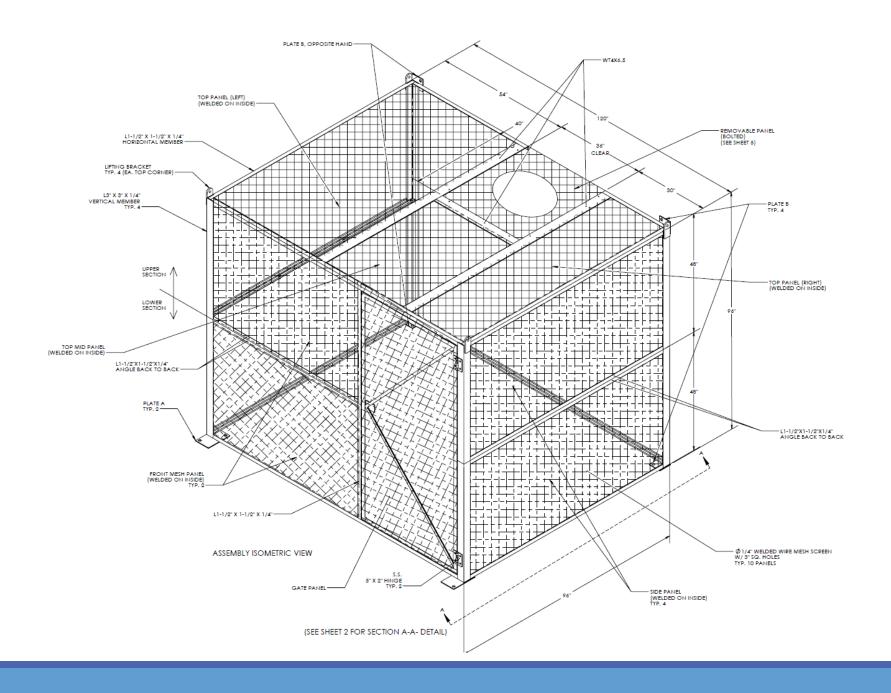


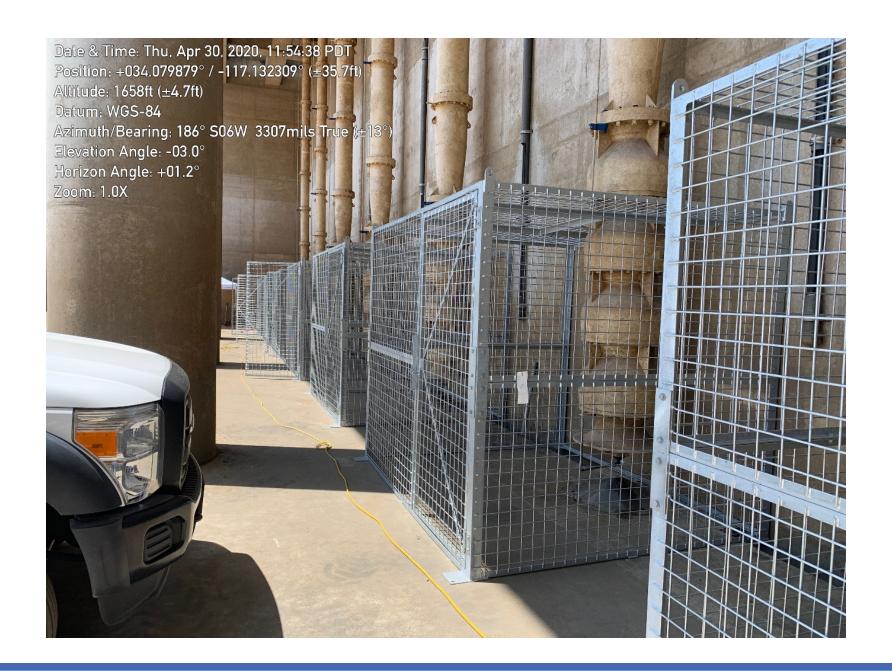
















BUDGET REVIEW

Citrus Reservoir Floating Cover System Project				
			Percent (%)	
		Amount	of Budget	
Original Authorized Budget Amount	\$	280,000	100%	
Dewatering Pump Rental	\$	59,087	21.1%	
Pump Screen Fabrication (8 total)	\$	82,366	29.4%	
Miscellaneous Materials and Rentals	\$	25,000	8.9%	
Total Estimated Project Costs	\$	166,453	59.4%	
Over/Under Budget	\$	(113,547)		



Director Comments and Discussion



T. Milford Harrison President



Paul
Kielhold
Vice President



Susan Longville Treasurer



June Hayes Director



Gil NavarroDirector

Staff RecommendationReceive and file.

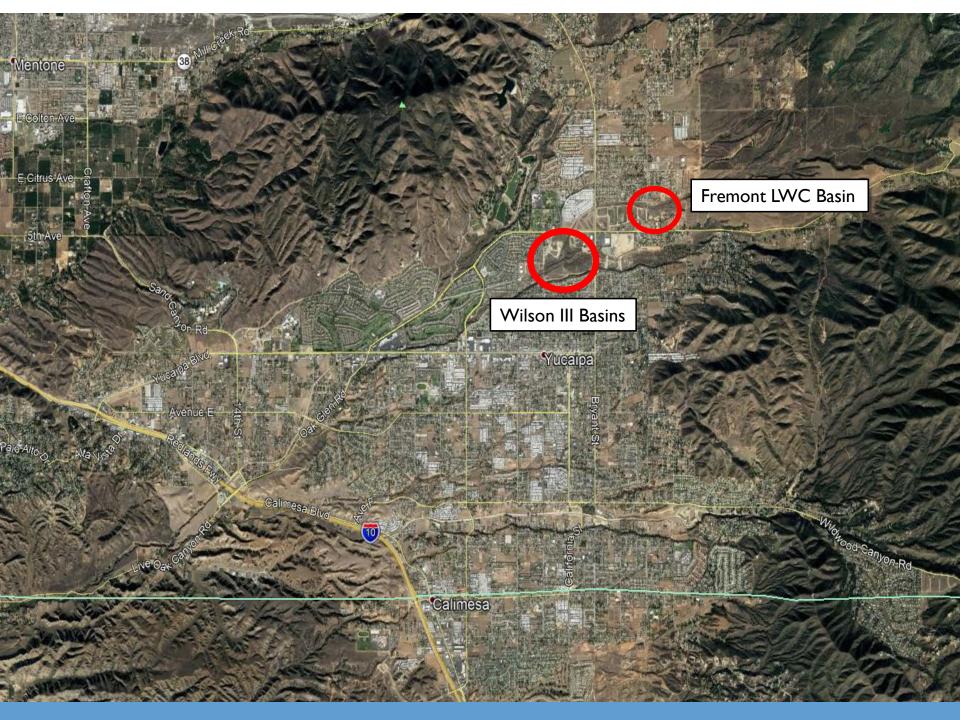


Discussion Item 4.4 (Pg. 22)

Matt Howard, Water Resources Senior Project Manager

Update on City of Yucaipa Stormwater Recharge Basins

Staff Recommendation Receive and file.







Previous Discussions

January 14
Workshop –
Engineering

- Board is supportive of these projects
- Investigate project funding under LRIP

February 13 Workshop – Resources

- · Board is supportive of these projects and funding
- Recommendation to further quantify the benefits, measure the stormwater captured & recharged

May 12 Workshop – Engineering

- Update on LRIP application status
- Update on measuring the amount of stormwater captured in the Basins



Updates on the LRIP Projects

Wilson III Basins: LRIP application requesting a hybrid approach, which provides upfront lump sum funding and will require the City of Yucaipa to outline planned performance metrics.

Fremont LWC Basin: LRIP application will request the traditional LRIP payment approach

The planned measurement devices include staff gauges at the inlet and outlets of the stormwater basins, gated outlets, and removable stop logs that will be used to calculate recharge





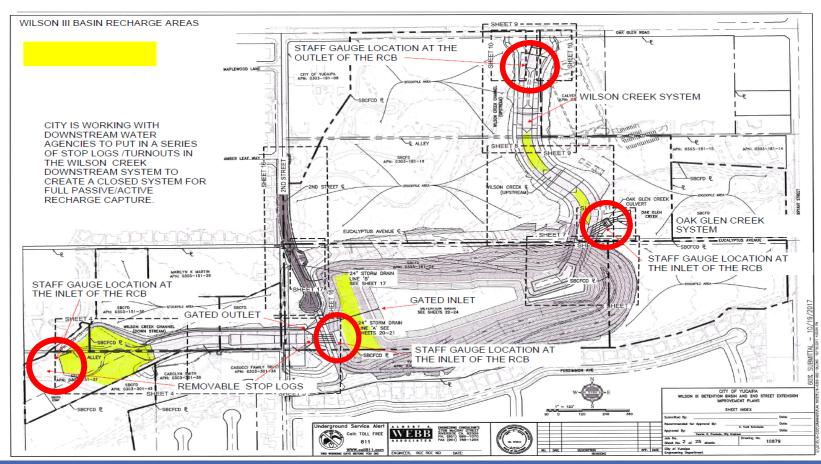


Planned Wilson III Basins





Planned Wilson III Basins





Completed Fremont LWC Basin





Completed Fremont LWC Basin





Director Comments and Discussion



T. Milford Harrison President



Paul
Kielhold
Vice President



Susan Longville Treasurer



June Hayes Director



Gil Navarro Director

Staff RecommendationReceive and file.



Future Business



Adjournment