The meeting teleconference will begin shortly

Listen to the meeting by using your computer or tablet speakers or by calling (877) 853-5247 using meeting ID 753 841 573

View the live meeting presentation at https://sbvmwd.zoom.us/j/753841573

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 or use the digital “raise hand” hand function in Zoom.

Please mute your microphone during the meeting to reduce background noise. Click on the microphone icon to unmute your microphone if needed.
NOTICE REGARDING (COVID-19)

Before public comments are considered, the record will reflect that 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.
Call to Order

Board of Directors Workshop - Engineering
Tuesday, September 8, 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.
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

Board of Directors Workshop – Engineering
August 11, 2020
Consider Sponsoring the Center for Western Weather and Water Extremes (CW3E) Water Affiliates Group to Study Atmospheric Rivers

Staff Recommendation
This item is within the signing authority of the Chief Executive Officer/General Manager. Approval is not required at a Board meeting, unless desired.
Director Comments and Discussion

T. Milford Harrison
President

Paul Kielhold
Vice President

Susan Longville
Treasurer

June Hayes
Director

Gil Navarro
Director

Staff Recommendation
This item is within the signing authority of the Chief Executive Officer/General Manager. Approval is not required at a Board meeting, unless desired.
Discussion Item 4.2

Mike Esquer – Senior Project Manager
Brent Adair – Project Manager II

Discuss Bid Results for Construction of Waterman Hydroelectric Project

Staff Recommendation
Staff recommends the items presented in the staff memorandum, and summarized below, be placed on the next Board of Directors meeting for consideration:
1) Waive minor irregularities and award the contract to Borden Excavating, Inc.;
2) Authorize the CEO/General Manager approve contingent costs up to ten (10) percent above the contract amount;
3) Authorize the CEO/General Manager to contract with professional inspection and materials testing firms up to $123,900.
Background

- The Board of Directors approved a design and engineering service contract with NLine Energy at its meeting on May 6, 2014. Subsequently, the Board of Directors approved the procurement of the turbine, generator, switchgear, programmable logic control systems, meters, valves and actuators for the Project.
- At the Joint Board Meeting with the City of San Bernardino Municipal Water Department (SBMWD) on January 30, 2019, the Board agreed to partner with SBMWD for the development of the Project.
- The design has since been completed and the Project was advertised for bids in June 2020.
Discussion

• Staff received bids on August 13, 2020. Nine (9) bids were received, ranging from $2.253M to $3.789M. The three lowest bidders (lowest to highest) are Borden Excavating, Inc. ($2,252,000), Environmental Construction, Inc. ($2,657,153), and Kiewit Infrastructure West Co. ($2,941,000).

• Staff concluded that Borden Excavating, Inc. is a responsible and responsive bidder that submitted the lowest bid at $2,252,000 pending review of minor irregularities (attached) by District Special Construction Counsel, Mary Salamone.

• It is recommended that the Board of Directors consider authorizing contingent costs of up to ten (10) percent above the contract amount, or $225,200.

• Consider authorizing CEO/GM to contract with professional inspection and material testing firms for the Project up to a budgetary amount of $123,900 using established selection procedures.
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<thead>
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<th>Item</th>
<th>SBVMWD Amount</th>
<th>SBMWD Amount</th>
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<tr>
<td>Engineers Estimate (100% Design)</td>
<td>$5,309,845</td>
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<td>Engineering Design &amp; PM</td>
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<td>Pre-purchase Items</td>
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<td>CAISO Equipment</td>
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<td>Construction</td>
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<td>SCE Estimated Costs</td>
<td>$144,500</td>
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<td>10% Contingency</td>
<td>$119,600</td>
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<td>Special Inspections</td>
<td>$61,800</td>
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<td>Estimated Project Costs</td>
<td>$3,051,411</td>
<td>$2,435,113</td>
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<td>Total Estimated Project Costs</td>
<td>$5,486,524</td>
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</table>
Staff Recommendation

Staff recommends the items presented in the staff memorandum, and summarized below, be placed on the next Board of Directors meeting for consideration:

1) Waive minor irregularities and award the contract to Borden Excavating, Inc.;
2) Authorize the CEO/General Manager approve contingent costs up to ten (10) percent above the contract amount;
3) Authorize the CEO/General Manager to contract with professional inspection and materials testing firms up to $123,900.
Consider Amendment 6 to the Yuba Accord Agreement for a Dry Year Water Supply

Staff Recommendation
Staff recommends the Board direct staff to place this item on the next Board of Directors regular meeting agenda for consideration.
Staff Recommendation

Staff recommends the Board direct staff to place this item on the next Board of Directors regular meeting agenda for consideration.
Discussion Item 4.4 (Pg. 78)

Matt Howard, MS – Water Resources Senior Project Manager


Staff Recommendation

Staff recommends the Board direct staff to place this item on a future Board of Directors regular meeting agenda for consideration.
Overview

Combining the updates of the RUWMP and IRWMP

Review of Proposals

Staff Recommendation
Updating the IRUWMP

Valley District is proposing to combine the 2015 RUWMP and the 2015 IRWMP into one document called the 2020 Upper Santa Ana River Integrated Regional Urban Water Management Plan (IRUWMP).

The IRUWMP will ensure long-term water supplies are available to meet existing and future demands
- Long term = 20 years
- Must to prepared/updated every 5 years
- Must incorporate long term drought scenarios (5 & 30 year drought scenarios)

The IRUWMP will also re-evaluate goals and strategies developed by the BTAC:
- Improve water supply reliability
- Balance flood management and increase stormwater recharge
- Improve water quality
- Improve habitat and open space
2020 Integrated Regional Urban Water Management Plan (IRUWMP)
New Requirements and Analyses

New Water Shortage Contingency Plans
- Provide an action plan for drought/catastrophic water shortage
- Six standard water shortage stages

Expanded Analysis of Water Demand Management Measures
- Water loss information to be provided by each agency
- SB X7-7 look back comparison reporting

Seismic Risk Assessment
- Mitigation Plan and Seismic Risk Assessment
- Description of water system vulnerabilities

Climate Change Analysis
- Evaluates potential long-term reliability on supplies

Incorporation of the RAND evaluation of supplies and demands
Overlapping Chapters

2015 IRWMP CHAPTERS
1. Regional Planning, Governance, Outreach and Coordination
2. Region Description
3. Water Budget
4. Goals and Objectives
5. Water Management Strategies
6. Projects
7. Implementation
8. Data Management, Plan Performance and Adaptive Management

2015 RUWMP CHAPTERS
1. Introduction
2. Regional Water Sources
3. Regional Water Use
4. Comparison of Regional Supplies and Demands
5. Regional Water Shortage Contingency Planning
6. Agency Chapters
## Overlapping Chapters

<table>
<thead>
<tr>
<th>2015 IRWMP CHAPTERS</th>
<th>2015 RUWMP CHAPTERS</th>
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<tr>
<td>1. Regional Planning, Governance, Outreach and Coordination</td>
<td>1. Introduction</td>
</tr>
<tr>
<td>2. Region Description</td>
<td>2. Regional Water Sources</td>
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<td>3. Water Budget</td>
<td>3. Regional Water Use</td>
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<td>4. Goals and Objectives</td>
<td>4. Comparison of Regional Supplies and Demands</td>
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<td>5. Water Management Strategies</td>
<td>5. Regional Water Shortage Contingency Planning</td>
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<td>6. Projects</td>
<td>6. Agency Chapters</td>
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<tr>
<td>7. Implementation</td>
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<tr>
<td>8. Data Management, Plan Performance and Adaptive Management</td>
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</table>
2020 IRWMP/ RUWMP Chapters

1. Introduction/Regional Planning, Governance, Outreach and Coordination
2. Region Description, Regional Water Sources
3. Water Budget, Regional Water Use, Comparison of Regional Supplies and Demands
4. Goals and Objectives
5. Water Management Strategies, Regional Water Shortage Contingency Planning
6. Agency Chapters
7. Projects
8. Implementation
Participating IRUWMP agencies

Integrated agencies

1. Big Bear Lake Department of Water and Power
2. Big Bear City Community Services District
3. East Valley Water District
4. Fontana Union Water Company
5. City of Loma Linda
6. City of Redlands
7. City of Rialto
8. City of Riverside Public Utilities Department
9. San Bernardino County Flood Control District
10. San Bernardino Municipal Water Department
11. San Bernardino Valley Municipal Water District
12. San Bernardino Valley Water Conservation District
13. San Gorgonio Pass Water Agency
14. West Valley Water District
15. Yucaipa Valley Water District

UWMP Agencies

1. City of Colton
2. East Valley Water District
3. City of Loma Linda
4. City of Redlands
5. City of Rialto
6. Riverside Highland Water Company
7. San Bernardino Municipal Water Department
8. San Bernardino Valley Municipal Water District
9. West Valley Water District
10. Yucaipa Valley Water District
San Bernardino Valley Municipal Water District

Agencies Participating in the IRWMP (Green Labels); RUWMP (Blue Labels); IRWMP & RUWMP (Purple Labels)

Sources: Esri, HERE, DeLorme, Intermap, Increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, MSFM, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community
Valley District RFP Process

Valley District released an RFP for this project
- RFP was open from June 29 to August 3
- RFP was sent out to a list of consultants and posted on Valley District Website

Proposal Review Panel was comprised of staff from:
- San Bernardino Municipal Water Department
- Yucaipa Valley Water District
- San Bernardino Valley Water Conservation District
- Valley District staff

Three Consulting Groups Submitted Proposals
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<tr>
<th>Firm</th>
<th>Total Cost</th>
<th>Total Hours</th>
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<td>Firm 3</td>
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<td>WSC</td>
<td>$ 393,100</td>
<td>2,133</td>
<td>$ 184.29</td>
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Valley District RFP Process

Proposal review panel and staff analyzed the proposals, and held interviews with each consultant.

Water Systems Consulting (WSC) was unanimously recommended by the proposal review panel after the interviews were complete.

- Review Panel felt their extensive experience preparing Integrated and Regional Plans all over the state and their regional experience preparing the 2015 Integrated Plan and 2015 Regional Plan as well as other studies in our region would be advantageous to Project.

On August 27, a meeting was held with all of the participating agencies to receive their feedback on the selection of WSC and proposed cost breakdown. The participating agencies supported the selection of WSC and the cost breakdown provided.
## Cost Sharing Methodology

<table>
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<tr>
<td>Equal cost share</td>
<td>Regional Sections</td>
<td>Regional Sections</td>
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<tr>
<td></td>
<td>◦ Valley District 50%</td>
<td>Valley District 50%</td>
</tr>
<tr>
<td></td>
<td>◦ Agencies equal share of the balance</td>
<td>Agencies equal share of the balance</td>
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<tr>
<td></td>
<td>Agency Chapters</td>
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</tr>
<tr>
<td></td>
<td>◦ Agencies pay the actual cost to develop their chapter</td>
<td>Agencies pay the actual cost to develop their chapter</td>
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# Cost-Agency Breakdown

## 2020 Integrated Regional Urban Water Management Plan Update

Water Systems Consulting Proposal

<table>
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<tr>
<th>Description</th>
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<td>Total Proposal Cost - WSC</td>
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<td>Total Agency Chapters (3)</td>
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<td>Total Regional Sections/Tasks (0, 1, 2, 4)</td>
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<tr>
<td>San Bernardino Valley Municipal Water District</td>
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<tr>
<td>Balance Regional Sections</td>
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### COST SHARING BY AGENCY

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<tr>
<th>Agency</th>
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<th>Agency Urban Chapter</th>
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<th>Total (%)</th>
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<td>$6,204</td>
<td>$6,204</td>
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<tr>
<td>Big Bear City Community Services District</td>
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<td>$6,204</td>
<td>$6,204</td>
<td>2%</td>
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<tr>
<td>City of Colton</td>
<td>$6,203.75</td>
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<td>7%</td>
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<tr>
<td>City of Loma Linda</td>
<td>$6,203.75</td>
<td>$21,200</td>
<td>$27,404</td>
<td>7%</td>
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<tr>
<td>City of Redlands</td>
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<td>7%</td>
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<tr>
<td>City of Rialto</td>
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<td>7%</td>
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<tr>
<td>City of Riverside Public Utilities Department</td>
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<td>$6,204</td>
<td>2%</td>
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<tr>
<td>East Valley Water District</td>
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<td>$21,200</td>
<td>$27,404</td>
<td>7%</td>
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<td>Fontana Union Water Company</td>
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<td>Riverside-Highland Water Company</td>
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<td>San Bernardino County Flood Control District</td>
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<td>$6,204</td>
<td>2%</td>
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<tr>
<td>San Bernardino Municipal Water Department</td>
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<td>$27,404</td>
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<td>San Bernardino Valley Municipal Water District</td>
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<td>San Gorgonio Pass Water Agency</td>
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<td>Yucaipa Valley Water District</td>
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<td><strong>TOTAL</strong></td>
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<td><strong>$194,580</strong></td>
<td><strong>$393,100</strong></td>
<td><strong>100%</strong></td>
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Agency Cost Savings (IRUWMP)

(69.7%)
Staff Recommendation
Staff recommends the Board direct staff to place this item on a future Board of Directors regular meeting agenda for consideration.
Future Business
Adjournment