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Call to Order

Regular Meeting of the Board of Directors
Tuesday, April 7, 2020

Pledge of Allegiance



Roll Call



**T. Milford
Harrison**
President



**Paul
Kielhold**
Vice President



**Susan
Longville**
Treasurer



**June
Hayes**
Director



**Gil
Navarro**
Director



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.*



Approval of Minutes (Pg. 3)

Regular Board Meeting – March 17, 2020



Board Motion & Roll Call Vote

Staff Recommendation

To approve the minutes of the March 17, 2020
Regular Meeting of the Board of Directors as
presented



**T. Milford
Harrison**
President



**Paul
Kielhold**
Vice President



**Susan
Longville**
Treasurer



**June
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Director



**Gil
Navarro**
Director



Discussion Item 3.1 (Pg. 11)

Wen Huang, Chief Engineer

Consider WaterSMART Grant Contract with US Bureau of Reclamation for the Central Feeder and East Branch Extension Intertie Project



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
ASSISTANCE AGREEMENT

| | | | |
|--|----------------|--|--|
| 1A. AGREEMENT NUMBER R19AP00107 | 1B. MOD NUMBER | 2. TYPE OF AGREEMENT <input checked="" type="checkbox"/> GRANT <input type="checkbox"/> COOPERATIVE AGREEMENT | 3. CLASS OF RECIPIENT Special District Government |
| 4. ISSUING OFFICE Bureau of Reclamation Acquisitions and Assistance Management Division Acquisitions and Assistance Operations Branch P.O. Box 25007, MS 84-27810 Denver, CO 80225-5007 | | 5. RECIPIENT San Bernardino Valley Municipal Water District 380 E Vanderbilt Way San Bernardino, CA 92408-0000 | |
| 6. RECIPIENT PROJECT MANAGER Wen Huang, Chief Engineer San Bernardino Valley Municipal Water District 380 E Vanderbilt Way San Bernardino, CA 92408-0000 909-387-9223 wenh@sbvmwd.com | | EDY #: 95-6005196 County: San Bernardino | DUNS #: 054797683 Congress. Dist.: CA-8 |
| 7A. INITIAL AGREEMENT EFFECTIVE DATE: See Block 13.a below | | 7B. MODIFICATION EFFECTIVE DATE: | |
| 8. COMPLETION DATE December 31, 2021 | | | |
| 9A. PROGRAM STATUTORY AUTHORITY Section 9504(a) of the Secure Water Act, Public Law 111-11 (42 United States Code 10364), as amended | | | 9B. CFDA Number 15.514 |
| 10. FUNDING INFORMATION | NON-FEDERAL | RECLAMATION | TOTAL PROJECT COSTS |
| Total Estimated Amount of Agreement | \$1,401,000.00 | \$750,000.00 | \$2,151,000.00 |
| This Obligation | \$1,401,000.00 | \$740,000.00 | \$2,141,000.00 |
| Previous Obligation | \$0.00 | \$0.00 | \$0.00 |
| Total Obligation | \$1,401,000.00 | \$740,000.00 | \$2,141,000.00 |
| 11. PROJECT TITLE Central Feeder - EBX Intertie Project | | | |
| 12a. Acceptance of this Assistance Agreement in accordance with the terms and conditions contained herein is hereby made on behalf of the above-named recipient BY: _____ DATE: _____ | | 12b. Award of this Assistance Agreement in accordance with the terms and conditions contained herein is hereby made on behalf of the United States of America, Department of the Interior, Bureau of Reclamation BY: _____ DATE: _____ | |
| 12c. NAME AND TITLE OF SIGNER | | 12d. NAME OF GRANTS OFFICER | |

- March 19, 2019, the Board adopted Resolution No. 1803 authorizing the grant application
- August 2019 the project was selected for grant funding
- The Central Feeder – EBX Intertie Project will facilitate delivery of stored water in the San Bernardino Basin Area as part of the Bunker Hill Conjunctive Use Program to the participants on the east side of District’s service area and SGPWA
- Estimated cost of construction of the Intertie is approximately \$2.151M
- Construction is expected to begin in early 2021

Board Motion & Roll Call Vote

Staff Recommendation

Authorize the General Manager to execute the grant contract subject to non-substantive edits approved by District House Counsel



**T. Milford
Harrison**
President



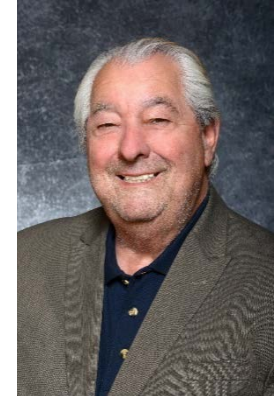
**Paul
Kielhold**
Vice President



**Susan
Longville**
Treasurer



**June
Hayes**
Director



**Gil
Navarro**
Director

Discussion Item 3.2 (Pg. 63)

Bob Tincher, Deputy General Manager - Resources

Consider Agreement to Exchange State Water Project
Water for Santa Ana River Water During Periods of Poor
Water Quality

Seven Oaks Water Quality Problems, 2019



Highly turbid water.
Similar Conditions to 2004-05

SCE PH #2-3 Stopped 2/14/19
Back online 8/2/19



2019 Chronology

- Seven Oaks Dam builds a pool behind the dam (inconsistent with proposed WQ Plan)
- The pool starts turning murky like in 2004-05
- SCE stopped their diversions on, or about, February 14, 2019
- SCE unable to re-start their diversion because of major damage to SCE facilities caused by large flows
- SCE not back online until about August 2, 2019



ACOE Water Quality Study

- East Valley Water District receives funds from Congress to study Water Quality problem at Seven Oaks (2005)
- Requested by SBVMWD, the ACOE prepared a study comparing the existing Water Control Manual (WCM) and the Water Quality Plan (WQP).
- Purpose: Investigate the cause of adverse water quality impacts. If due to the Dam, formulate the best solution to address the impacts
- Proposed Water Quality Plan (2010):

| Water Control Manual (WCM) | Water Quality Plan (WQP) |
|--|---|
| Operation for Flood Control Benefits ONLY | Same |
| Winter flood season (01 Oct thru 01 Mar) | Same |
| Build Debris pool starting 01 Oct and maintain throughout flood season | Build Debris Pool ONLY at the start of storm/flood event and drain Debris Pool COMPLETELY following the event |
| From 01 Jun, $Q_{out} = Inflow + 10 \text{ cfs}$ From 01 Jul, $Q_{out} = Inflow + 20 \text{ cfs}$ | 250 cfs??? |
| Debris pool completely drained by 30 Aug to allow for project maintenance starting 01 Sep. | Little or no Debris Pool by the end of flood season. Whatever remains will be drained in accordance with the WCM. |

- ACOE decides not to implement the WQP (2013)

Seven Oaks Dam Impact on Water Supply

SEVEN OAKS POOL ELEVATION

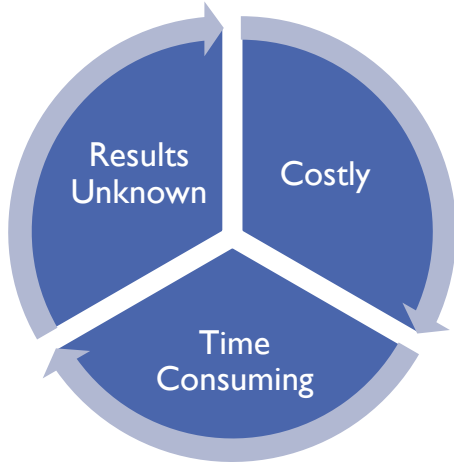
- Prevents SCE from reaching PH #1 to re-start diversions
- Bear Valley unable to delivery about 2,900 AF to their high elevation customers

SEVEN OAKS POOL WATER QUALITY

- Low quality is unsuitable for some direct deliveries
 - Bear Valley recharges the poor quality water they would normally have delivered to their customers
 - Bear Valley delivers SWP water in place of the poor quality they could not deliver
 - Bear Valley/SBVWCD/Valley District working on an MOU for possible exchange.

Possible Solutions

Sue USACOE Under Clean Water Act



Solve the Problem Ourselves

- In years when WQ is poor behind the dam, explore possible exchange of SWP water for the recharge of the low quality water
- Explore options to restore access to SCE PH#1, when the access road is blocked by the pool behind Seven Oaks, so that diversions may resume
- Complete the environmental analysis for Seven Oaks so that the WQ Plan can be implemented
- Result known

MEMORANDUM OF UNDERSTANDING

1 **AGREEMENT TO EXCHANGE STATE WATER PROJECT WATER FOR SANTA ANA RIVER WATER**
2 **DURING PERIODS OF POOR WATER QUALITY**

3
4 This Agreement to Exchange State Water Project Water for Santa Ana River Water
5 During Periods of Poor Water Quality (“**Agreement**”) is entered into and effective this ___ day of
6 March, 2020 by and among Bear Valley Mutual Water Company (“**Bear Valley**”) the San
7 Bernardino Valley Water Conservation District (“**Conservation District**”), and the San
8 Bernardino Valley Municipal Water District (“**Valley District**”). Each of the foregoing parties is
9 sometimes referred to herein as a “**Party**” and are collectively referred to herein as the “**Parties**.”

10
11 Recitals

12
13 *Valley District*

14
15 A. Valley District is a State Water Contractor that imports water from the State
16 Water Project (SWP).

17
18 B. The Valley District service area is approximately 350 square miles and includes
19 the cities and communities of San Bernardino, Colton, Loma Linda, Redlands, Rialto,
20 Bloomington, Highland, East Highland, Mentone, Grand Terrace, and Yucaipa.

21
22 C. In 1972, Valley District completed the construction of facilities which enabled the
23 delivery of SWP Water as far as the Rialto area in the west and the Redlands area in the east.

24
25 *The Exchange Plan*

26
27 D. To postpone the cost for a pump station(s) and related infrastructure to deliver
28 SWP water further east into the Yucaipa area, Valley District developed an exchange concept
29 that would essentially deliver SWP water to Yucaipa, by exchange.

30
31 E. The exchange concept was incorporated into the *Santa Ana River – Mill Creek*
32 *Cooperative Water Project Agreement* (“**Exchange Plan**”) which was signed in 1976.

33
34 F. The following agencies signed the Exchange Plan: Bear Valley, the City of
35 Redlands, Crafton Water Company, East San Bernardino County Water District (now East
36 Valley Water District), Lugonia Water Company, North Fork Water Company, Redlands Water
37 Company, the Conservation District, Yucaipa Valley County Water District (now Yucaipa
38 Valley Water District) and Valley District (collectively “**Exchange Plan Parties**”).

39
40 G. Each of the Exchange Plan Parties pledged the use of their water rights and
41 facilities “...in order to provide the most economical, efficient, and dependable supply possible
42 at a minimum of expense to water users and the taxpayers and to conserve energy.”
43

THIS MEMORANDUM OF UNDERSTANDING (“MOU”) is entered into as of
_____, 2019 (“**Effective Date**”), by and among Bear Valley Mutual
Water Company (“**Bear Valley**”), San Bernardino Valley Municipal Water District (“**Valley**
District”), and San Bernardino Valley Water Conservation District (“**Conservation District**”).
Bear Valley, Valley District, and Conservation District are sometimes referred to herein
individually as “**Party**” and collectively as “**Parties**”.

RECITALS

A. Valley District is a State Water Contractor that imports water from the State Water
Project (“**SWP**”).

B. The Valley District service area is approximately 350 square miles and includes all
or portions of the cities and communities of San Bernardino, Colton, Loma Linda, Redlands,
Rialto, Bloomington, Highland, East Highland, Mentone, Grand Terrace, and Yucaipa.

C. In 1972, Valley District completed the construction of facilities which enabled the
delivery of SWP water as far as the Rialto area to the west and the Redlands area to the east.

D. To postpone the cost for a pump station(s) and related infrastructure to deliver SWP
water further east into the Yucaipa area, Valley District developed an exchange concept that would
allow for SWP water delivery to Yucaipa through exchange.

E. On or about May 3, 1976, the exchange concept was incorporated into the Santa
Ana River – Mill Creek Cooperative Water Project Agreement (“**Exchange Plan**”), which was
executed by Bear Valley Mutual Water Company, City of Redlands (“**Redlands**”), Crafton Water
Company (“**Crafton**”), East San Bernardino County Water District (now East Valley Water
District), Lugonia Water Company, North Fork Water Company, Redlands Water Company, San
Bernardino Valley Municipal Water District, San Bernardino Valley Water Conservation District,
and Yucaipa Valley County Water District (now Yucaipa Valley Water District) (collectively
“**Exchange Parties**”).

F. Each of the Exchange Parties pledged the use of their water rights and facilities
“...in order to provide the most economical, efficient, and dependable supply possible at a
minimum of expense to water users and the taxpayers and to conserve energy.”

G. Under the Exchange Plan, and subject to certain limitations, Valley District pledged
its SWP water supply and also pledged to pay the cost of the new facilities to facilitate exchanges
and to pay the cost to manage the Exchange Plan.

H. The Exchange Plan is operated by a Management Committee that is comprised of
one member from each of the Parties.

I. The Management Committee and Valley District appointed the Conservation
District to be the Project Manager of the Exchange Plan.



Board Motion & Roll Call Vote

Staff Recommendation

Authorize the General Manager to execute the Agreement to Exchange State Water Project Water for Santa Ana River Water During Periods of Poor Water Quality



**T. Milford
Harrison**
President



**Paul
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Vice President



**Susan
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**Gil
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Director

Discussion Item 3.3 (Pg. 83)

Bob Tincher, Deputy General Manager - Resources

Consider Retroactive Exchange of State Water Project Water for Santa Ana River Water in 2019 Under the Agreement to Exchange State Water Project Water for Santa Ana River Water During Periods of Poor Water Quality

Proposed Retroactive Exchange with Bear Valley, 2019

Requested SWP Exchange Amount, by Authorized Valley District Turnout:

| Valley District Turnout | Flow Rate (cfs) | Start Date (mm/dd/yy) | End Date (mm/dd/yy) | Total (acre-feet) |
|--|-----------------|-----------------------|---------------------|-------------------|
| Boullioun Box to Highline | n/a | 2/14/19 | 8/1/19 | 986.4 |
| Northfork - BVMWC | n/a | 2/14/19 | 8/1/19 | 0.0 |
| SARC to Redlands Aqueduct | n/a | 2/14/19 | 8/1/19 | 1,554.4 |
| Unger Lane to Zanja – Crafton | n/a | 2/14/19 | 8/1/19 | 339.0 |
| If Bear Valley is using Greenspot Pipeline: | | | | |
| Newport Avenue | | | | |
| Tres Lagos | | | | |
| Total (3,200 AF max unless authorized) | | | | 2,879.8 |

Minimum SAR Exchange Water (2:1) Delivered for Recharge in the San Bernardino Basin by Bear Valley through Tailrace Pipeline I (Bear Valley to provide documentation): 5,759.6 acre-feet



Staff Recommendation

Authorize the retroactive exchange of 2,880 acre-feet of SWP water for 5,760 acre-feet of Santa Ana River water delivered for recharge into the San Bernardino Basin per their proposal dated April 7, 2020

Board Motion & Roll Call Vote



**T. Milford
Harrison**
President



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Director

Discussion Item 3.4

Heather Dyer, General Manager

Discuss May 5th Board Meeting and May Resources Workshop

- In light of ACWA conference and travel being postponed, Staff proposes we return to the normal BOD and Workshop Schedule for May:
 - Tuesday May 5th, 2 PM - BOD Meeting (*previously canceled*)
 - Thursday May 7th, 2 PM – Resources Workshop (*previously rescheduled for May 18th*)



Reports Item 4.1 (Pg. 87)

Board of Directors' Workshop – Resources, March 5, 2020



Reports Item 4.2 (Pg. 90)

Board of Directors' Workshop – Engineering, March 10, 2020



Reports Item 4.3 (Pg. 94)

Board of Directors' Workshop – Policy, March 12, 2020



Reports Item 4.4

SAWPA Meeting Report

SAWPA MEETING SUMMARY

April 7, 2020, Regular Meeting Commission of the Santa Ana Watershed Project Authority

- Received a status update on SAWPA's response to the COVID-19 Emergency.
- Directed the General Manager to submit a Request for Public Assistance under Disaster Declaration EM-3428/DR-4482 and required documentation to accept Disaster Recovery funds under the Robert T. Stafford Disaster Relief and Emergency Assistance Act.
- Authorized the General Manager to execute an Agreement for Services and supporting Task Orders with Kahn Soares & Conway to provide regulatory support to several SAWPA Task Forces.

April 7, 2020, Regular Meeting Project Agreement 24 Committee of the Santa Ana Watershed Project Authority

- Directed the General Manager to issue a Request for Proposals for Brine Line Pipeline Cleaning services for Fiscal Years 2020-21 and 2021-22.

Reports Item 4.5

Primary Representatives' Report/Directors' Activities



**T. Milford
Harrison**
President



**Paul
Kielhold**
Vice President



**Susan
Longville**
Treasurer



**June
Hayes**
Director



**Gil
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Director

Announcements Item 5.1 (Pg. 98)

Lillian Hernandez, Board Secretary

April 9, 2020 – Board of Directors’ Workshop – Policy, 2:00 p.m. by teleconference

April 14, 2020 – Board of Directors’ Workshop – Engineering, 2:00 p.m. by teleconference

April 16, 2020 – Board of Directors’ Workshop – Resources, 2:00 p.m. by teleconference

April 21, 2020 – SAWPA Commission Meeting, 9:30 a.m. by teleconference

April 21, 2020 – Regular Board Meeting, 2:00 p.m. by teleconference



Adjournment
